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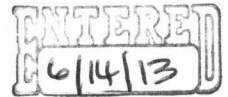
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April 19, 2013

Ms. Donna Musa
Washington State Department of Ecology
Toxic Cleanup Program
3190 160th Avenue SE
Bellevue, Washington 98008

Subject: **First Quarter 2013 Groundwater Monitoring and Sampling Report
76 Products Facility No. 351448
200 South 36th Street
Bellingham, Washington
Washington State Department of Ecology Facility No. 11191596**



Dear Ms. Musa:

On behalf of Chevron Environmental Management Company, for itself and as Attorney-in-Fact for Union Oil Company of California (EMC), SAIC Energy, Environment & Infrastructure, LLC (SAIC) submits this groundwater monitoring and sampling report for the above-referenced site (Figure 1). Quarterly groundwater monitoring and sampling activities were conducted by Blaine Tech Services, Inc. (Blaine Tech) on February 20, 2013. The Blaine Tech groundwater monitoring and sampling package is provided as Attachment A.

FIELD ACTIVITIES

During this event, the depth to groundwater was measured in wells MW-1 through MW-8. The groundwater elevation ranged from 189.85 (MW-2) to 191.11 (MW-6) feet above mean sea level. Groundwater flow is to the northwest at a gradient of approximately 0.01 feet per foot; however, a southerly gradient exists in the southeast portion of the property with a gradient of approximately 0.04 feet per foot. A potentiometric map is shown on Figure 1.

Groundwater samples were collected from all of the monitoring wells and shipped under chain-of-custody protocol to Eurofins Lancaster Laboratories, Inc. in Lancaster, Pennsylvania.

Groundwater samples were submitted for the following analyses:

- Total petroleum hydrocarbons (TPH) as gasoline-range organics by Northwest Method NWTPH-Gx;

- TPH as diesel-range organics (TPH-D) and TPH as heavy oil-range organics by Northwest Method NWTPH-Dx;
- Benzene, toluene, ethylbenzene, total xylenes, and ethanol by United States Environmental Protection Agency (USEPA) Method 8260B;
- Nitrate and sulfate by USEPA Method 300.0;
- Alkalinity by Method SM20 2320 B; and
- Ferrous iron by Method SM20 3500 Fe B modified.

Laboratory analytical results are included as Attachment B, and groundwater analytical and field results are provided in Tables 1 and 2 and shown on Figure 2. In addition, hydrographs for wells MW-1, MW-7 and MW-8 are included as Attachment C.

RESULTS

The results of the first quarter 2013 sampling event indicate that petroleum-hydrocarbon constituent concentrations are generally consistent with respect to historical downward trending data. In addition, the groundwater elevation, flow direction, and gradient are consistent with historical measurements. Below is a summary of analytical results.

- Laboratory results indicate that the TPH-D concentration in monitoring well MW-8 exceeded the Model Toxics Control Act (MTCA) Method A cleanup level.
- Remaining analytes for all other wells were below their respective MTCA Method A cleanup levels or laboratory reporting limits.

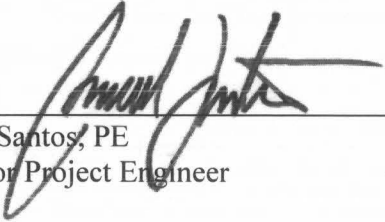
Monitored natural attenuation parameters have been included in the site monitoring scope to evaluate the bioremediation process. The plume geochemistry indicates biodegradation is occurring in the subsurface. For wells with hydrocarbons, ferrous iron is elevated and sulfate concentrations are reduced. In general, wells where hydrocarbons were not detected show relatively higher sulfate concentrations and lower ferrous iron concentrations.

Blaine Tech will continue to perform groundwater monitoring and sampling on a quarterly basis.

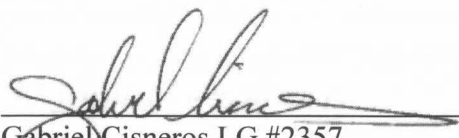
If you have any questions or comments, please contact me at (208) 429-3772 or via email at ronald.santos@saic.com.

Sincerely,

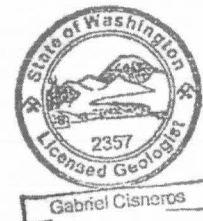
SAIC Energy, Environment & Infrastructure, LLC



Ron Santos, PE
Senior Project Engineer



Gabriel Cisneros LG #2357
Geologist



Enclosures:

Figure 1 – Potentiometric Map

Figure 2 – Site Plan with Groundwater Analytical Results

Table 1 – Groundwater Monitoring Data and Analytical Results

Table 2 – Groundwater MNA Parameters

Attachment A – Groundwater Monitoring and Sampling Data Package

Attachment B – Laboratory Analysis Report

Attachment C – Hydrographs

cc: Mr. J. Mark Inglis – Union Oil of California
SYB Holding Company Inc. – Property Owner
Project File

REPORT LIMITATIONS

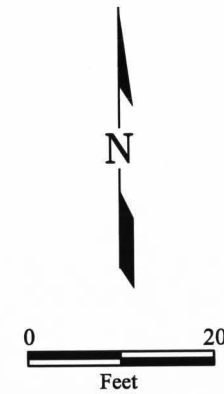
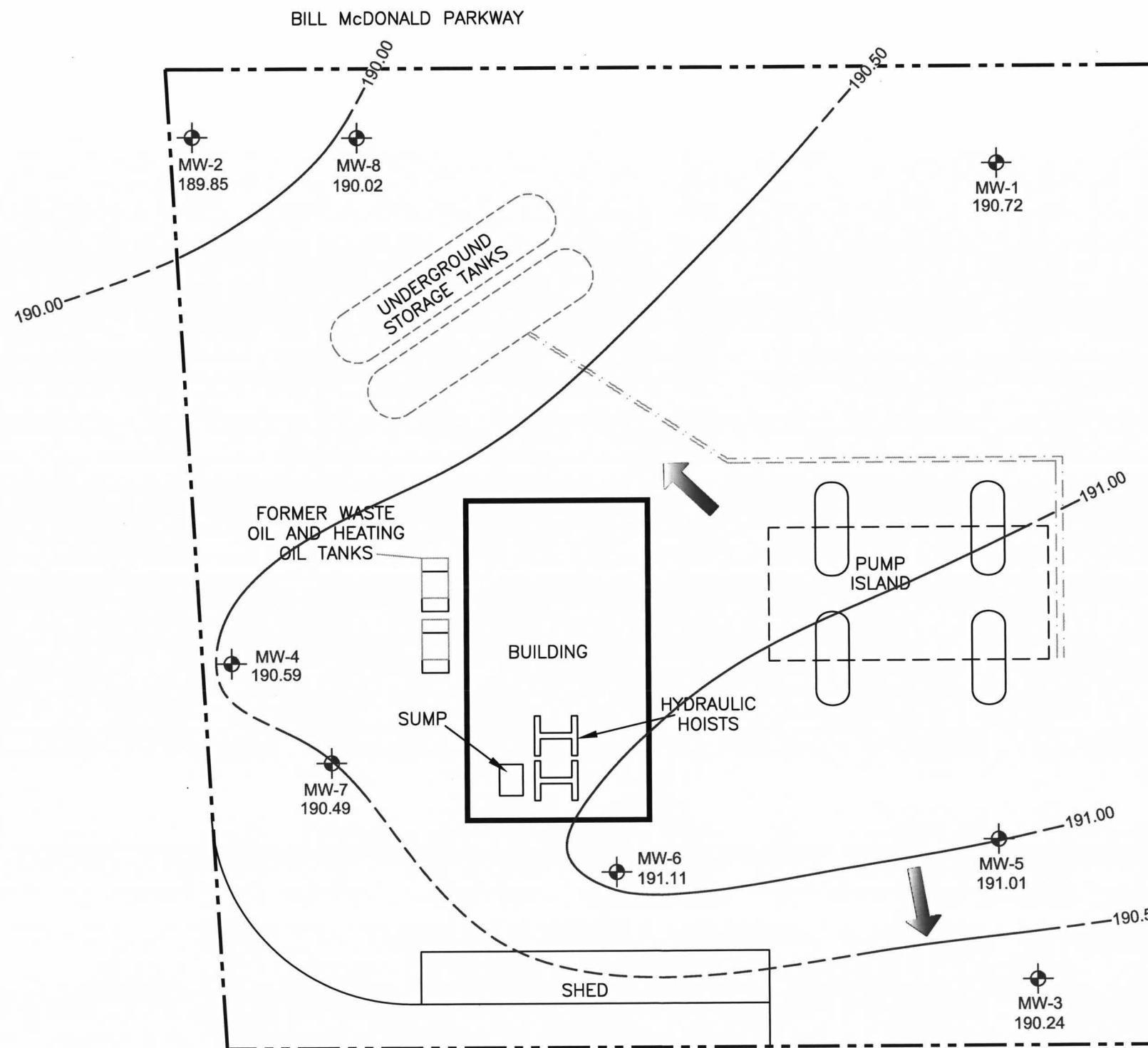
This technical document was prepared on behalf of Chevron and is intended for its sole use and for use by the local, state or federal regulatory agency that the technical document was sent to by SAIC. Any other person or entity obtaining, using, or relying on this technical document hereby acknowledges that they do so at their own risk, and that SAIC shall have no responsibility or liability for the consequences thereof.

Site history and background information provided in this technical document are based on sources that may include interviews with environmental regulatory agencies and property management personnel and a review of acquired environmental regulatory agency documents and property information obtained from CEMC and others. SAIC has not made, nor has it been asked to make, any independent investigation concerning the accuracy, reliability, or completeness of such information beyond that described in this technical document.

Recognizing reasonable limits of time and cost, this technical document cannot wholly eliminate uncertainty regarding the vertical and lateral extent of impacted environmental media.

Opinions and recommendations presented in this technical document apply only to site conditions and features as they existed at the time of SAIC's site visits or site work and cannot be applied to conditions and features of which SAIC is unaware and has not had the opportunity to evaluate.

All sources of information on which SAIC has relied in making its conclusions (including direct field observations) are identified by reference in this technical document or in appendices attached to this technical document. Any information not listed by reference or in appendices has not been evaluated or relied upon by SAIC in the context of this technical document. The conclusions, therefore, represent our professional opinion based on the identified sources of information.



SOUTH SAMISH WAY

LEGEND

- MW-1 MONITORING WELL LOCATION
- SITE BOUNDARY
- (190.96) GROUNDWATER ELEVATION IN FEET
- 190.50 GROUNDWATER ELEVATION CONTOUR AT A 0.50 INTERVAL (DASHED WHERE INFERRED)
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- GROUNDWATER GRADIENT:
NORTHWESTERLY COMPONENT=0.01 FT/FT
SOUTHERLY COMPONENT=0.04 FT/FT

MW-8	5/8/12	8/16/12	11/12/12	2/20/13
TPH-G	<50	<50	<50	<50
TPH-D	<30	<29	<28	820
TPH-O	<70	<67	<66	180
B	2	<0.5	<0.5	<0.5
T	<0.5	<0.5	<0.5	<0.5
E	<0.5	<0.5	<0.5	<0.5
X	<0.5	<0.5	<0.5	<0.5

MW-2	5/8/12	8/16/12	11/12/12	2/20/13
TPH-G	<50	<50	<50	<50
TPH-D	<29	<29	<28	<28
TPH-O	<69	<67	<66	<66
B	<0.5	<0.5	<0.5	<0.5
T	<0.5	<0.5	<0.5	<0.5
E	<0.5	<0.5	<0.5	<0.5
X	<0.5	<0.5	<0.5	<0.5

MW-4	5/8/12	8/16/12	11/12/12	2/20/13
TPH-G	<50	<50	<50	<50
TPH-D	<29	<29	<28	<29
TPH-O	<68	<67	<66	<67
B	<0.5	<0.5	<0.5	<0.5
T	<0.5	<0.5	<0.5	<0.5
E	<0.5	<0.5	<0.5	<0.5
X	<0.5	<0.5	<0.5	<0.5

MW-7	5/8/12	8/16/12	11/12/12	2/20/13
TPH-G	130	340	230	98
TPH-D	610	950	580	<29
TPH-O	<67	<67	<66	<67
B	<0.5	<0.5	<0.5	<0.5
T	<0.5	<0.5	<0.5	<0.5
E	<0.5	<0.5	<0.5	<0.5
X	<0.5	<0.5	<0.5	<0.5

MW-6	5/8/12	8/16/12	11/12/12	2/20/13
TPH-G	<50	<50	<50	<50
TPH-D	<30	<29	<29	46
TPH-O	<69	<67	<67	<66
B	<0.5	<0.5	<0.5	<0.5
T	<0.5	<0.5	<0.5	<0.5
E	<0.5	<0.5	<0.5	<0.5
X	<0.5	<0.5	<0.5	<0.5

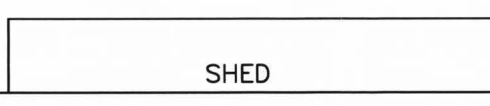
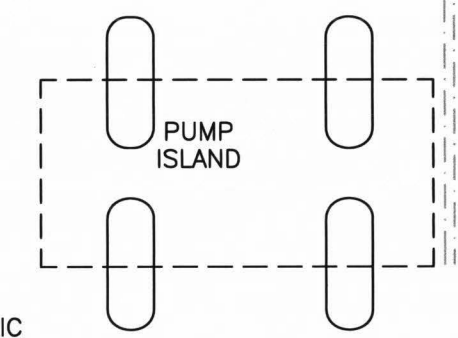
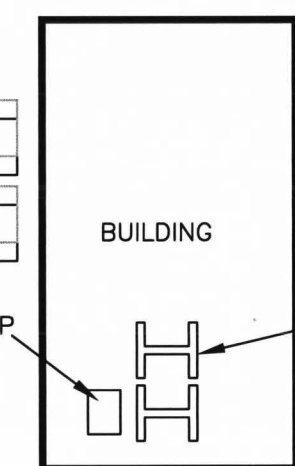
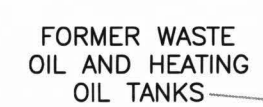
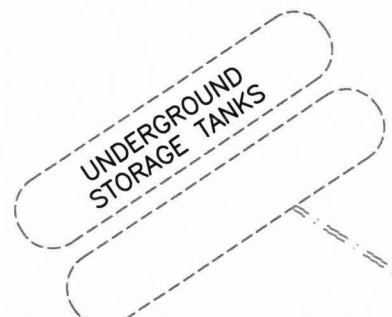
MW-5	5/8/12	8/16/12	11/12/12	2/20/13
TPH-G	<50	<50	<50	<50
TPH-D	<30	<28	30	160
TPH-O	<70	<66	<66	180
B	<0.5	<0.5	<0.5	<0.5
T	<0.5	<0.5	<0.5	<0.5
E	<0.5	<0.5	<0.5	<0.5
X	<0.5	<0.5	<0.5	<0.5

MW-3	5/8/12	8/16/12	11/12/12	2/20/13
TPH-G	<50	<50	<50	<50
TPH-D	<30	<28	<29	68
TPH-O	<70	<66	<67	<66
B	<0.5	<0.5	<0.5	<0.5
T	<0.5	<0.5	<0.5	<0.5
E	<0.5	<0.5	<0.5	<0.5
X	<0.5	<0.5	<0.5	<0.5

MW-1	5/8/12	8/16/12	11/12/12	2/20/13
TPH-G	<50	<50	<50	<50
TPH-D	<29	30	45	200
TPH-O	<68	<66	<66	210
B	10	19	<0.5	<0.5
T	0.9	0.7	<0.5	<0.5
E	<0.5	<0.5	<0.5	<0.5
X	<0.5	<0.5	<0.5	<0.5

BILL McDONALD PARKWAY

SOUTH SAMISH WAY



LEGEND

- MONITORING WELL LOCATION
- SITE BOUNDARY

ANALYTES

WELL ID	DATE
TPH-G	GASOLINE-RANGE HYDROCARBONS
TPH-D	DIESEL-RANGE HYDROCARBONS
TPH-O	HEAVY OIL-RANGE HYDROCARBONS
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	TOTAL XYLENES

UNITS IN MICROGRAMS PER LITER (µg/L)

BOLD VALUES EQUAL OR EXCEED MTCA METHOD A CLEANUP LEVELS.

< LESS THAN LABORATORY REPORTING LIMIT



NOTE: Features were adapted from a Stantec Corporation figure, Site Map with Analytical Results (June 4, 2010), dated June 17, 2010.

76 Products Facility No. 351448
200 South 36th Street
Bellingham, Washington

FIGURE 2
Site Plan with Groundwater Analytical Results (February 20, 2013)

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS
76 PRODUCTS FACILITY NO. 351448
200 South 36th Street, Bellingham, Washington
Concentrations reported in µg/L

Well ID/ TOC Elevation (ft)	Sample Date	Depth to Water (ft)	LPH (ft)	GW Elevation (ft)	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDC	EDB	Total Lead	Dissolved Lead	Ethanol	
MW-1 98.49	03/11/99	4.96	--	93.53	<50	<250	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	--	--	2.41	--	--	
	05/25/99	5.33	--	93.16	<50	<250	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	
	08/12/99	6.66	--	91.83	<50	--	--	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	
	12/07/99	6.10	--	92.39	<50	<250	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	--	--	6.18	--	--	
	02/10/00	6.10	--	92.39	<50	<250	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	--	--	1.75	--	--	
	02/02/01	5.17	--	93.32	<50	588	<750 ^e	12.4	1.02	1.10	2.77	--	--	--	--	<1.00	--	
	02/08/02	5.77	--	92.72	838	1,600	<500	128	2.15	85.4	6.55	--	--	--	7.70	<1.00	--	
	09/20/02	6.27	--	92.22	197	1,320	<588 ^e	1.82	<0.500	33.0	<1.00	--	--	--	<1.00	--	--	
	12/04/02	7.05	--	91.44	373	511	<568 ^e	106	1.32	1.39	5.41	--	--	--	4.65	--	--	
	03/05/03	5.70	--	92.79	168	<250	<500	28.3	1.70	3.55	5.87	--	--	--	4.90	--	--	
	06/10/03	5.92	--	92.57	400	<250	<500	36.9	2.43	30.5	6.97	--	--	--	17.1	--	--	
	09/03/03	6.30	--	92.19	258	301	<588 ^e	1.91	3.22	4.30	5.25	--	--	--	8.72	--	--	
	12/12/03	5.53	--	92.960	204	700	304	2.45	<0.500	<0.500	<1.500	--	--	--	<5.0	--	--	
	03/24/04	6.11	--	92.38	163	<126	<251	12.6	<1.00	<1.00	<3.00	--	--	--	14.6	--	--	
	06/17/04	5.10	--	93.39	<50	<118	<237	4.98	<0.500	<0.500	<1.50	--	--	--	--	<10.0	--	
	09/23/04	5.28	--	93.21	190	<267	<535 ^e	<0.50	<0.50	<0.50	<1.0	--	--	--	<10.0	--	--	
	12/29/04	5.42	--	93.07	<100	<241	<482	<1.00	<1.00	<1.00	<3.00	--	--	--	--	<10.0	--	
	03/04/05	5.73	--	92.76	<100	<241	<482	<1.00	<1.00	<1.00	<3.00	--	--	--	<10.0	--	--	
	06/09/05	6.10	--	92.39	<100	<236	<472	<1	<1	<1	<3	1.26	--	--	--	<15	--	
	09/15/05	6.60	--	91.89	<48	<160	<200	<0.5	<0.5	<0.5	<1.5	--	--	--	--	<0.87	--	
12/15/05	5.94	--	92.55	<48	170	110	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--	--		
03/10/06	5.34	--	93.15	<48	<76	<95	0.6	<0.2	<0.2	<0.6	--	--	--	--	--	--		
06/30/06	8.88	--	89.61	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	1.3	--	--	--	--	--		
03/07/07	Unable to gauge or sample; Public Works trucks parked over well.																	
06/01/07	5.47	--	93.02	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.8	1.0	--	--	--	--	--	
09/06/07	6.01	--	92.48	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.8	0.5	--	--	--	--	--	
12/03/07	6.63	--	91.86	<50	<400 ^c	<500 ^c	<0.5	<0.7	<0.8	<0.8	<0.8	0.6	--	--	--	--	--	
03/05/08	5.34	--	93.15	<50 ^d	<800 ^{c,e}	<1,000 ^{c,e}	11	<0.7	<0.8	<0.8	<0.8	1	--	--	--	--	--	
06/11/08	5.34	--	93.15	<50	<800 ^{b,c,e}	<1,000 ^{b,c,e}	10	<0.5	<0.5	<0.5	<0.5	1	--	--	--	--	--	
09/10/08	5.30	--	93.19	<50	<77	<96	<0.5	<0.7	<0.8	<0.8	<0.8	1	--	--	--	--	--	
12/10/08	5.62	--	92.87	<50	<29	<69	<0.5	<0.7	<0.8	<0.8	<0.8	--	--	--	--	--	--	
03/31/09	5.55	--	92.94	<50	<83	<420	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--	
06/17/09	5.80	--	92.69	<50	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<0.010	<1.0	<1.0	--	
09/29/09	6.67	--	189.12	<50	<77.7	<388	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	--	--	--	--	
12/09/09	6.00	--	189.79	Not part of the sampling schedule this reporting period.													--	--
02/26/10	5.33	--	190.46	<50	<77.7	<388	4.4	1.5	<1.0	7.2	--	--	--	--	--	--	--	
06/04/10	5.16	--	190.63	<50	187	<392	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	
08/03/10	6.22	--	189.57	<50	<76.9	<385	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	
12/02/10	5.61	--	190.18	<50	<77.7	<388	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	
02/21/11	5.50	--	190.29	<50	<78.4	<392	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	
05/18/11	4.61	--	191.18	<50	<30	<69	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50	
08/17/11	6.12	--	189.67	<50	57	<74	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50	
11/22/11	5.99	--	189.80	<50	<29	<68	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50	
03/30/12	6.22	--	189.57	<50	<29	<67	40	2	<0.5	<0.5	<0.5	--	--	--	--	--	<50	
05/08/12	5.02	--	190.77	<50	<29	<68	10	0.9	<0.5	<0.5	<0.5	--	--	--	--	--	<50	

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS
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Well ID/ TOC Elevation (ft)	Sample Date	Depth to Water (ft)	LPH (ft)	GW Elevation (ft)	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDC	EDB	Total Lead	Dissolved Lead	Ethanol	
MW-1 (cont.)	08/16/12	5.91	--	189.88	<50	30	<66	19	0.7	<0.5	<0.5	--	--	--	--	--	<50	
	11/12/12	5.73	--	190.06	<50	45	<66	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50	
	02/20/13	5.07	--	190.72	<50	200	210	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50	
MW-2 100.74	03/11/99	7.93	--	92.81	<50	<250	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	--	--	162	--	--	
	05/25/99	8.18	--	92.56	<50	<250	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	
	08/12/99	8.94	--	91.80	<50	281	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	
	12/07/99	8.04	--	92.70	<50	<250	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	--	--	17.0	--	--	
	02/10/00	8.32	--	92.42	<50	<250	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	--	--	49.1	--	--	
	02/02/01	6.40	--	94.34	<50	<250	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	--	--	--	<1.00	--	
	02/08/02	7.77	--	92.97	<50	<250	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	40.6	<1.00	--	
	09/20/02	9.23	--	91.51	<50	<250	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	<1.00	--	--	
	12/04/02	9.15	--	91.59	<50	<250	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	2.89	--	--	
	03/05/03	8.28	--	92.46	<50	<250	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	19.8	--	--	
	06/10/03	8.56	--	92.18	<50	<284	<568 ^e	<0.500	1.36	<0.500	2.53	--	--	--	40.1	--	--	
	09/03/03	9.13	--	91.61	<80	<298	<595 ^e	0.829	1.25	0.519	2.49	--	--	--	33.3	--	--	
	12/12/03	8.12	--	92.62	<50	<119	<237	<0.250	<0.500	<0.500	<1.500	--	--	--	<5.0	--	--	
	03/24/04	8.13	--	92.61	<100	<124	<248	<1.00	<1.00	<1.00	<3.00	--	--	--	21.3	--	--	
	06/17/04	8.13	--	92.61	<50	<119	<238	<0.250	<0.500	<0.500	<1.50	--	--	--	--	<10.0	--	
	09/23/04	8.33	--	92.41	<50	<271	<542 ^e	<0.50	<0.50	<0.50	<1.0	--	--	--	<10.0	--	--	
	12/29/04	7.82	--	92.92	<100	<239	<478	<1.00	<1.00	<1.00	<3.00	--	--	--	--	<10.0	--	
	03/04/05	8.34	--	92.40	<100	<239	<478	<1.00	<1.00	<1.00	<3.00	--	--	--	<10.0	--	--	
	06/09/05	8.66	--	92.08	<100	<238	<475	<1	<1	<1	<3	<1	--	--	--	<15	--	
	09/15/05	5.40	--	95.34	<48	<75	<94	<0.5	<0.5	<0.5	<1.5	--	--	--	--	<0.87	--	
	12/15/05	8.44	--	92.30	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--	--	
	03/10/06	8.28	--	92.46	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--	--	
	06/30/06	8.71	--	92.03	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	<0.3	--	--	--	--	--	
	03/07/07	7.80	--	92.94	<48	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--	
	06/01/07	8.38	--	92.36	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--	
	09/06/07	9.06	--	91.68	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--	
	12/03/07	6.69	--	94.05	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--	
	03/05/08	8.05	--	92.69	<50	<800 ^{c,e}	<1,000 ^{c,e}	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--	
	06/11/08	8.25	--	92.49	<50	<76 ^b	<95 ^b	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
	09/10/08	8.80	--	91.94	<50	<78	<97	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--	
	12/10/08	Removed from sampling event this quarter.																
	198.03	03/31/09	7.90	--	92.84	--	--	--	--	--	--	--	--	--	--	--	--	--
		06/17/09	8.53	--	92.21	<50	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<0.010	<1.0	<1.0	--
09/29/09		9.38	--	188.65	<50	<77.7	<388	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	--	--	--	
12/09/09		7.99	--	190.04	Not part of the sampling schedule this reporting period.													
02/26/10		8.10	--	189.93	Not part of the sampling schedule this reporting period.													
06/04/10		7.76	--	190.27	Not part of the sampling schedule this reporting period.													
08/03/10		8.93	--	189.10	<50	<77.7	<388	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	
12/02/10		7.99	--	190.04	<50	<78.4	<392	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	
02/21/11		7.64	--	190.39	<50	<78.4	<392	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	
05/18/11		7.30	--	190.73	<50	<30	<70	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50	
08/17/11		8.80	--	189.23	<50	<31	<72	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50	

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS
76 PRODUCTS FACILITY NO. 351448
200 South 36th Street, Bellingham, Washington
Concentrations reported in µg/L

Well ID/ TOC Elevation (ft)	Sample Date	Depth to Water (ft)	LPH (ft)	GW Elevation (ft)	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDC	EDB	Total Lead	Dissolved Lead	Ethanol	
MW-2 (cont.)	11/22/11	8.60	--	189.43	<50	<30	<69	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50	
	03/30/12	8.18	--	189.85	<50	<28	<66	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50	
	05/08/12	7.80	--	190.23	<50	<29	<69	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50	
	08/16/12	8.41	--	189.62	<50	<29	<67	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50	
	11/12/12	8.36	--	189.67	<50	<28	<66	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50	
	02/20/13	8.18	--	189.85	<50	<28	<66	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50
MW-3 97.84	03/11/99	4.93	--	92.91	<50	<250	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	--	--	6.35	--	--	
	05/25/99	5.19	--	92.65	210	383	<750 ^e	<0.500	<0.500	3.04	3.93	--	--	--	--	--	--	
	08/12/99	5.70	--	92.14	56.3	<250	<750 ^e	<0.500	<0.500	0.732	1.84	--	--	--	--	--	--	
	12/07/99	5.03	--	92.81	94.7	<250	<750 ^e	<0.500	0.598	<0.500	<1.00	--	--	--	4.40	--	--	
	02/10/00	4.92	--	92.92	<50	<250	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	--	--	17.6	--	--	
	02/02/01	4.76	--	93.08	63.0	413	<750 ^e	<0.500	<0.500	0.503	<1.00	--	--	--	--	<1.00	--	
	02/08/02	4.59	--	93.25	91.5	410	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	22.3	<1.00	--	
	09/20/02	5.88	--	91.96	129	372	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	<1.00	--	--	
	12/04/02	5.26	--	92.58	147	371	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	4.60	--	--	
	03/05/03	4.70	--	93.14	62.2	<250	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	12.5	--	--	
	06/10/03	5.31	--	92.53	<50	<250	<500	<0.500	0.562	<0.500	<1.00	--	--	--	6.90	--	--	
	09/03/03	5.66	--	92.18	<80	<250	<500	2.12	0.753	<0.500	<1.00	--	--	--	<1.00	--	--	
	12/12/03	4.79	--	93.06	<50	<119	<237	<0.250	<0.500	<0.500	<1.500	--	--	--	<5.0	--	--	
	03/24/04	4.81	--	93.03	<100	<128	<256	<1.00	<1.00	<1.00	<3.00	--	--	--	20.0	--	--	
	06/17/04	4.97	--	92.87	<50	<119	<238	<0.250	<0.500	<0.500	<1.50	--	--	--	--	<10.0	--	
	09/23/04	5.03	--	92.81	140	<255	<509 ^e	<0.50	<0.50	<0.50	<1.0	--	--	--	<10.0	--	--	
	12/29/04	4.53	--	93.31	<100	<239	<478	<1.00	<1.00	<1.00	<3.00	--	--	--	--	<10.0	--	
	03/04/05	5.02	--	92.82	<100	<241	<482	<1.00	<1.00	<1.00	<3.00	--	--	--	<10.0	--	--	
	06/09/05	5.25	--	92.59	<100	<238	<475	<1	<1	<1	<3	<1	--	--	--	<15	--	
	09/15/05	7.20	--	90.64	<48	<75	<93	<0.5	<0.5	<0.5	<1.5	--	--	--	--	<0.87	--	
	12/15/05	5.09	--	92.75	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--	--	
	03/10/06	4.75	--	93.09	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--	--	
	06/30/06	5.40	--	92.44	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	<0.3	--	--	--	--	--	
	03/07/07	4.42	--	93.42	<48	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.8	<0.5	--	--	--	--	
	06/01/07	4.94	--	92.90	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.8	<0.5	--	--	--	--	
	09/06/07	5.43	--	92.41	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.8	<0.5	--	--	--	--	
	12/03/07	4.70	--	93.14	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.8	<0.5	--	--	--	--	
	03/05/08	4.89	--	92.95	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.8	<0.5	--	--	--	--	
	06/11/08	5.11	--	92.73	<50	100 ^b	560^b	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
	09/10/08	5.30	--	92.54	<50	<78	<98	<0.5	<0.7	<0.8	<0.8	<0.8	<0.5	--	--	--	--	
	12/10/08	Removed from sampling event this quarter.																
	195.19	03/31/09	4.90	--	92.94	--	--	--	--	--	--	--	--	--	--	--	--	--
		06/17/09	5.57	--	92.27	<50	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<0.010	<1.0	<1.0	--
09/29/09		5.91	--	189.28	<50	<78.4	<392	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	--	--	--	
12/09/09		5.06	--	190.13	Not part of the sampling schedule this reporting period.													
02/26/10		5.02	--	190.17	Not part of the sampling schedule this reporting period.													
06/04/10		4.91	--	190.28	<50	111	<392	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--
08/03/10		5.71	--	189.48	<50	<76.9	<385	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--
12/02/10	4.83	--	190.36	<50	<77.7	<388	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS
76 PRODUCTS FACILITY NO. 351448
200 South 36th Street, Bellingham, Washington
Concentrations reported in µg/L

Well ID/ TOC Elevation (ft)	Sample Date	Depth to Water (ft)	LPH (ft)	GW Elevation (ft)	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDC	EDB	Total Lead	Dissolved Lead	Ethanol	
MW-3 (cont.)	02/21/11	4.86	--	190.33	<50	<78.4	<392	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	
	05/18/11	4.44	--	190.75	<50	<30	<70	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50	
	08/17/11	5.62	--	189.57	<50	37	<76	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50	
	11/22/11	5.22	--	189.97	<50	<29	<67	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50	
	03/30/12	5.31	--	189.88	<50	34	120	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50	
	05/08/12	4.85	--	190.34	<50	<30	<70	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<50
	08/16/12	5.46	--	189.73	<50	<28	<66	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<50
	11/12/12	5.45	--	189.74	<50	<29	<67	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<50
	02/20/13	4.95	--	190.24	<50	68	<66	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<50
MW-4 99.44	03/11/99	6.39	--	93.05	<50	<250	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	--	--	29.0	--	--	
	05/25/99	6.62	--	92.82	<50	<250	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	
	08/12/99	7.31	--	92.13	<50	<250	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	
	12/07/99	6.37	--	93.07	<50	<250	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	--	--	10.2	--	--	
	02/10/00	6.48	--	92.96	<50	<250	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	--	--	23.6	--	--	
	02/02/01	6.37	--	93.07	<50	<250	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	--	--	--	<1.00	--	
	02/08/02	6.03	--	93.41	<50	<250	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	3.30	<1.00	--	
	09/20/02	7.37	--	92.07	<50	<250	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	<1.00	--	--	
	12/04/02	7.03	--	92.41	<50	<250	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	<1.00	--	--	
	03/05/03	6.33	--	93.11	<50	<284	<568 ^e	<0.500	<0.500	<0.500	<1.00	--	--	--	6.81	--	--	
	06/10/03	6.99	--	92.45	<50	<250	<500	<0.500	0.687	<0.500	1.26	--	--	--	10.5	--	--	
	09/03/03	7.60	--	91.84	<80	<312	<625 ^e	0.620	<0.500	<0.500	<1.00	--	--	--	2.75	--	--	
	12/12/03	6.49	--	92.96	<50	<118	<237	<0.250	<0.500	<0.500	<1.500	--	--	--	<5.0	--	--	
	03/24/04	6.54	--	92.90	<100	<133	<265	<1.00	<1.00	<1.00	<3.00	--	--	--	<5.0	--	--	
	06/17/04	5.91	--	93.53	<50	<119	<237	<0.250	<0.500	<0.500	<1.50	--	--	--	--	<10.0	--	
	09/23/04	6.52	--	92.92	<50	<259	<518 ^e	<0.50	<0.50	<0.50	<1.0	--	--	--	<10.0	--	--	
	12/29/04	6.14	--	93.30	<100	<240	<480	<1.00	<1.00	<1.00	<3.00	--	--	--	--	<10.0	--	
	03/04/05	6.65	--	92.79	<100	<240	<481	<1.00	<1.00	<1.00	<3.00	--	--	--	<10.0	--	--	
	06/09/05	6.91	--	92.53	<100	<237	<473	<1	<1	<1	<3	<1	--	--	--	<15	--	
	09/15/05	6.10	--	93.34	<48	150	<93	<0.5	<0.5	<0.5	<1.5	--	--	--	--	<0.87	--	
	12/15/05	6.73	--	92.71	<48	180	<94	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--	--	
	03/10/06	6.28	--	93.16	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--	--	
	06/03/06	6.80	--	92.64	<48	130	<95	<0.2	<0.2	<0.2	<0.6	0.8	--	--	--	--	--	
	03/07/07	5.81	--	93.63	<48	83	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--	
	06/01/07	6.60	--	92.84	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--	
	09/06/07	7.12	--	92.32	<50	170	<95	<0.5	<0.7	<0.8	<0.8	0.6	--	--	--	--	--	
	12/03/07	6.00	--	93.44	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--	
	03/05/08	6.17	--	93.27	<50	<77	<96	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--	
	06/11/08	6.02	--	93.42	<50	<75 ^b	<94 ^b	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
	09/10/08	6.85	--	92.59	<50	<78	<97	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--	
12/10/08	Removed from sampling event this quarter.																	
196.77	03/31/09	6.17	--	93.27	--	--	--	--	--	--	--	--	--	--	--	--	--	
	06/16/09	7.09	--	92.35	<50	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<0.010	<1.0	<1.0	--	
	09/29/09	7.71	--	189.06	<50	256	<396	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	--	--	--	
	12/09/09	6.53	--	190.24	<50	142	<385	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	
02/26/10	6.39	--	190.38	<50	<77.7	<388	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--		

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS
76 PRODUCTS FACILITY NO. 351448
200 South 36th Street, Bellingham, Washington
Concentrations reported in µg/L

Well ID/ TOC Elevation (ft)	Sample Date	Depth to Water (ft)	LPH (ft)	GW Elevation (ft)	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDC	EDB	Total Lead	Dissolved Lead	Ethanol	
MW-4 (cont.)	06/04/10	6.19	--	190.58	<50	81.3	<396	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	
	08/03/10	7.38	--	189.39	<50	<76.9	<385	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	
	12/02/10	6.28	--	190.49	<50	<78.4	<392	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	
	02/21/11	6.22	--	190.55	<50	<77.7	<388	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	
	05/18/11	5.73	--	191.04	<50	<30	<69	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50	
	08/17/11	7.31	--	189.46	<50	59	<71	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<50
	11/22/11	6.73	--	190.04	<50	<29	<68	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<50
	03/30/12	6.11	--	190.66	<50	<28	<66	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<50
	05/08/12	6.11	--	190.66	<50	<29	<68	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<50
	08/16/12	7.18	--	189.59	<50	<29	<67	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<50
	11/12/12	6.36	--	190.41	<50	<28	<66	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<50
02/20/13	6.18	--	190.59	<50	<29	<67	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<50	
MW-5 101.14	01/11/06	4.04	--	97.10	<48	<75	<94	1.7	<0.2	<0.2	<0.6	--	--	--	<8.4	--	--	
	03/10/06	3.81	--	97.33	65	<75	<94	13	0.2	<0.2	<0.6	--	--	--	--	--	--	
	06/30/06	4.46	--	96.68	57	<76	<95	8.6	<0.2	<0.2	<0.6	<5.0	--	--	--	--	--	
	03/07/07	3.48	--	97.66	<48	<76	<94	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--	
	06/01/07	4.10	--	97.04	<50	--	--	<0.5	<0.7	<0.8	<0.8	0.6	--	--	--	--	--	
	09/06/07	4.43	--	96.71	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--	
	12/03/07	4.64	--	96.50	<50	99	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--	
	03/05/08	4.36	--	96.78	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--	
	06/11/08	4.21	--	96.93	<50	91	<94	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
	09/10/08	4.30	--	96.84	<50	<78	<98	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--	
	12/10/08				Removed from sampling event this quarter.													
	03/31/09	4.45	--	96.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/16/09	4.80	--	96.34	<50	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<0.010	<1.0	<1.0	--	
	09/29/09	5.53	--	189.47	<50	183	<386	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	--	--	--	
	12/09/09	4.33	--	190.67	Not part of the sampling schedule this reporting period.													
	02/26/10	4.52	--	190.48	63.1	93.6	<385	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	
	06/04/10	4.82	--	190.18	Not part of the sampling schedule this reporting period.													
	08/03/10	5.31	--	189.69	141	<76.9	<385	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	
	12/02/10	4.45	--	190.55	Not part of the sampling schedule this reporting period.													
	02/21/11	3.79	--	191.21	Not part of the sampling schedule this reporting period.													
	05/18/11	3.68	--	191.32	<50	49	<70	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<50
	08/17/11	5.11	--	189.89	<50	<30 ^f	<69 ^f	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<50
	11/22/11	4.60	--	190.40	<50	<30	<69	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<50
03/30/12	4.43	--	190.57	<50	<29	<67	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<50	
05/08/12	4.45	--	190.55	<50	<30	<70	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<50	
08/16/12	4.52	--	190.48	<50	<28	<66	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<50	
11/12/12	4.51	--	190.49	<50	30	<66	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<50	
02/20/13	3.99	--	191.01	<50	160	180	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<50	
MW-6 99.74	01/11/06	4.89	--	94.85	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	--	--	--	<8.4	--	--	
	03/10/06	5.47	--	94.27	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--	--	
	06/30/06	6.50	--	93.24	<48	<80	<100	<0.2	<0.2	<0.2	<0.6	<0.3	--	--	--	--	--	
	03/07/07	5.08	--	94.66	<48	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--	
	06/10/07	5.73	--	94.01	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--	

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS
76 PRODUCTS FACILITY NO. 351448
200 South 36th Street, Bellingham, Washington
Concentrations reported in µg/L

Well ID/ TOC Elevation (ft)	Sample Date	Depth to Water (ft)	LPH (ft)	GW Elevation (ft)	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDC	EDB	Total Lead	Dissolved Lead	Ethanol
MW-6 (cont.)	09/06/07	6.22	--	93.52	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
	12/03/07	5.46	--	94.28	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
	03/05/08	5.46	--	94.28	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
	06/11/08	5.39	--	94.35	<50	<76	250	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
	09/10/08	5.95	--	93.79	<50	<79	<98	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
	12/10/08	Removed from sampling event this quarter.															
196.52	03/31/09	5.75	--	93.99	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/16/09	6.50	--	93.24	<50	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<0.010	<1.0	<1.0	--
	09/29/09	7.04	--	189.48	<50	<78.4	<392	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	--	--	--
	12/09/09	5.87	--	190.65	<50	121	<385	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
	02/26/10	5.91	--	190.61	<50	<76.9	<385	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
	06/04/10	5.69	--	190.83	<50	<78.4	<392	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
	08/03/10	6.68	--	189.84	<50	<76.9	<385	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
	12/02/10	5.71	--	190.81	<50	<78.4	<392	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
	02/21/11	5.68	--	190.84	<50	<78.4	<392	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
	05/18/11	5.22	--	191.30	<50	<32	<74	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50
	08/17/11	6.60	--	189.92	<50	<30	<71	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50
	11/22/11	6.04	--	190.48	<50	<29	<67	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50
	03/30/12	5.46	--	191.06	<50	<29	<67	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50
	05/08/12	5.53	--	190.99	<50	<30	<69	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50
	08/16/12	6.43	--	190.09	<50	<29	<67	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50
11/12/12	5.56	--	190.96	<50	<29	<67	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50	
02/20/13	5.41	--	191.11	<50	46	<66	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50	
MW-7 99.64	01/11/06	6.07	--	93.57	160	780^b	<94 ^b	<0.2	<0.2	<0.2	<0.6	2.5	--	--	<8.4	--	--
	03/10/06	6.71	--	92.93	140	540	<94	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--	--
	06/30/06	7.31	--	92.33	190	1,000	<480	0.2	<0.2	<0.2	<0.6	2	--	--	--	--	--
	03/07/07	6.00	--	93.64	340	870	<94	<0.5	<0.7	<0.8	<0.8	0.7	--	--	--	--	--
	06/01/07	6.99	--	92.65	210	--	--	<0.5	<0.7	<0.8	<0.8	0.8	--	--	--	--	--
	09/06/07	7.47	--	92.17	250	1,000	160	<0.5	<0.7	<0.8	<0.8	0.8	--	--	--	--	--
	12/03/07	4.97	--	94.67	400	970	140	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
	03/05/08	6.47	--	93.17	240	930	100	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
	06/11/08	6.13	--	93.51	240	1,300	860	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
	09/10/08	7.20	--	92.44	250	580	<97	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
196.93	12/10/08	6.88	--	92.76	260	460	<68	<0.5	<0.7	<0.8	<0.8	--	--	--	--	--	--
	03/31/09	6.62	--	93.02	352	220	<420	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--
	06/16/09	7.49	--	92.15	240	440	<390	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<0.010	<1.0	<1.0	--
	09/29/09	7.97	--	188.96	134	839	566	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	--	--	--
	12/09/09	6.97	--	189.96	169	891	<385	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
	02/26/10	6.74	--	190.19	190	1,120	518	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
	06/04/10	6.50	--	190.43	151	1,200	<388	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
	08/03/10	7.73	--	189.20	119	181	<388	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
	12/02/10	6.57	--	190.36	200	222	<388	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
	02/21/11	6.53	--	190.40	221	212	<392	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
05/18/11	5.80	--	191.13	260	730	<68	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50	
08/17/11	7.60	--	189.33	160	560	<70	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50	

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS
76 PRODUCTS FACILITY NO. 351448
200 South 36th Street, Bellingham, Washington
Concentrations reported in µg/L

Well ID/ TOC Elevation (ft)	Sample Date	Depth to Water (ft)	LPH (ft)	GW Elevation (ft)	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDC	EDB	Total Lead	Dissolved Lead	Ethanol	
MW-7 (cont.)	11/22/11	7.11	--	189.82	180	160	<67	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50	
	03/30/12	6.43	--	190.50	210	670	<67	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50	
	05/08/12	6.53	--	190.40	130	610	<67	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50	
	08/16/12	7.56	--	189.37	340	950	<67	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50	
	11/12/12	6.63	--	190.30	230	580	<66	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50	
	02/20/13	6.44	--	190.49	98	<29 ^h	<67 ^h	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50	
MW-8 102.70 197.48	01/11/06	7.00	--	95.70	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	--	--	--	<8.4	--	--	
	03/10/06	7.50	--	95.20	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--	--	
	06/30/06	7.97	--	94.73	<48	<77	<96	<0.2	<0.2	<0.2	<0.6	<0.3	--	--	--	--	--	
	03/07/07	6.93	--	95.77	<48	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--	
	06/01/07	7.77	--	94.93	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--	
	09/06/07	8.45	--	94.25	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--	
	12/03/07	7.51	--	95.19	<50	<76	290	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--	
	03/05/08	7.30	--	95.40	<50	<150	860	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--	
	06/11/08	7.22	--	95.48	<50 ^d	240	1,000	<0.5 ^d	0.7 ^d	<0.5 ^d	<0.5 ^d	<0.5 ^d	--	--	--	--	--	
	09/10/08	8.20	--	94.50	<50	<79	<99	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--	
	12/10/08	7.55	--	95.15	<50	<29	180	<0.5	<0.7	<0.8	<0.8	--	--	--	--	--	--	
	03/31/09	7.10	--	95.60	<50	<82	<410	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	
	06/17/09	8.00	--	94.70	<50	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	2.8	<0.010	1.3	<1.0	--	
	09/29/09	8.89	--	188.59	<50	88.5	<388	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	--	--	--	
	12/09/09	7.40	--	190.08	57.9	112	<385	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	
	02/26/10	7.40	--	190.08	<50	136	496	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	
	06/04/10	7.18	--	190.30	<50	99	<392	3.8	<1.0	<1.0	<3.0	--	--	--	--	--	--	
	08/03/10	8.40	--	189.08	<50	<76.9	<385	3.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	
	12/02/10	7.40	--	190.08	Not part of the sampling schedule this reporting period.													
	02/21/11	7.08	--	190.40	Not part of the sampling schedule this reporting period.													
	05/18/11	6.52	--	190.96	<50	740	<370	1	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50
	08/17/11	8.35	--	189.13	<50	<30 ^e	<70 ^e	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50
	11/22/11	8.17	--	189.31	<50	<30	<69	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50
03/30/12	7.08	--	190.40	56	<29	<67	1	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50	
05/08/12	7.13	--	190.35	<50	<30	<70	2	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50	
08/16/12	8.02	--	189.46	<50	<29	<67	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50	
11/12/12	7.81	--	189.67	<50	<28	<66	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50	
02/20/13	7.46	--	190.02	<50	820ⁱ	180 ⁱ	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	<50	
MTCA Method A Cleanup Levels:					1,000/800 ^a	500	500	5	1,000	700	1,000	20	5	0.01	15	15	NE	

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS
76 PRODUCTS FACILITY NO. 351448
200 South 36th Street, Bellingham, Washington
Concentrations reported in µg/L

ABBREVIATIONS:

BTEX = Benzene, toluene, ethylbenzene, total xylenes
EDC = 1,2-Dichloroethane
EDB = 1,2-Dibromoethane
ft = feet
MTCA = Model Toxics Control Act
MTBE = Methyl tertiary butyl ether
NE = Not Established
LCS = Laboratory control sample
LPH = Liquid-phase hydrocarbon
QC = Quality control

RLs = Reporting limits
TOC = Top of casing
TPH = Total Petroleum Hydrocarbons
TPH-G = TPH as gasoline-range organics
TPH-D = TPH as diesel-range organics
TPH-O = TPH as heavy oil-range organics
USEPA = United States Environmental Protection Agency
-- = Not measured/Not analyzed
< = Less than the stated laboratory reporting limit
µg/L = micrograms per liter

NOTES:

Bolding indicates a concentration greater than MTCA Method A Cleanup Level.

Groundwater monitoring data, TOC elevations, and laboratory analytical results prior to May 18, 2011, provided by STANTEC Consulting Corporation.

TOC and ground surface elevations were surveyed by Otak Inc. on August 20, 2009.

Total and dissolved lead analyzed by USEPA Method 6020; after 09/03/03 by USEPA Method 6010.

Ethanol analyzed by USEPA Method 8260B.

TPH-G analyzed by Northwest Method NWTPH-Gx.

TPH-D and TPH-O analyzed by Northwest Method NWTPH-Dx .

BTEX analyzed by USEPA Method 8020, 8021B, or 8260B.

MTBE analyzed by USEPA Method 8260B.

EDC analyzed by USEPA Method 8260B.

EDB analyzed by USEPA Method 8011.

a Concentration levels stated by MTCA Method A for TPH-G are 1,000 µg/L when no benzene is present and 800 µg/L when benzene is present.

b The recovery for the LCS with this sample is below quality control limits. Since no sample remained for a reextraction the data is reported.

c Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

d Preservation requirements were not met. The vial submitted for volatile analysis did not have a pH < 2 at the time of analyses. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt. The pH of this ample was pH=6.

e The laboratory RLs are above current MTCA Method A cleanup levels

f The surrogate data is outside the QC limits. Due to insufficient sample volume, a repeat analysis could not be performed to confirm the results.

g The recovery for the sample surrogate is outside the QC acceptance limits. The sample was re-extracted outside of the method holding time. All results are reported from the original extract. Similar results were obtained in both extracts.

h Re-analysis was requested. The sample was re-extracted in duplicate outside the method holding time. The results are as follows: TPH-D = 610 µg/L (pattern similar to original sample); TPH-O < 140 µg/L; TPH-D DUP = 620 µg/L, TPH-O DUP < 140 µg/L.

i Re-analysis was requested. The sample was re-extracted in duplicate outside the method holding time. The results are as follows: TPH-D < 60 µg/L; TPH-O < 140µg/L; TPH-D DUP < 60 µg/L, TPH-O DUP < 140µg/L.

TABLE 2
GROUNDWATER MNA PARAMETERS
76 PRODUCTS FACILITY NO. 351448
200 South 36th Street, Bellingham, Washington

Well ID	Sample Date	Dissolved Oxygen (mg/L)	ORP (mV)	pH	Conductivity (µS/cm)	Temperature (°C)	Ferrous Iron (mg/L)	Alkalinity to pH 4.5 (µg/L as CaCO ₃)	Alkalinity to pH 8.3 (µg/L as CaCO ₃)	Nitrate (µg/L)	Sulfate (µg/L)
MW-1	11/22/11	1.51	-5.8	6.35	616	14.32	3.6	403,000	<460	<250	<1,500
	03/30/12	0.95	-24.8	6.69	684	12.80	3.8	329,000	<460	<250	<1,500
	05/08/12	0.67	17.2	6.40	743	12.98	2.6	366,000	<700	<250	<1,500
	08/16/12	0.83	-40.4	7.12	611	17.08	2.4	327,000	<700	<250	<1,500
	11/12/12	0.93	20.4	6.81	680	15.10	2.1	416,000	--	<250	<1,500
	02/20/13	1.39	72.8	6.91	835	12.20	5.6	408,000	--	<250	<1,500
MW-2	11/22/11	0.80	48.7	6.35	497	12.55	0.0	248,000	<460	<250	14,000
	03/30/12	1.55	-39.1	6.39	481	11.32	0.0	238,000	<460	340	16,300
	05/08/12	2.56	202.6	6.50	476	12.05	0.0	239,000	<700	550	15,000
	08/16/12	0.64	-26.3	7.02	420	16.99	0.0	218,000	<700	330	14,100
	11/12/12	1.20	20.8	6.79	471	15.22	0.036	258,000	--	360	14,400
	02/20/13	0.81	41.9	6.56	531	10.84	0.15	259,000	--	<250	14,600
MW-3	11/22/11	1.01	-14.7	6.47	605	12.76	1.8	419,000	<460	<250	16,900
	03/30/12	1.28	-34.2	6.78	802	11.42	1.4	429,000	<460	<250	5,500
	05/08/12	0.23	13.3	6.59	916	13.01	2.0	446,000	<700	<250 ¹	5,900
	08/16/12	0.94	-31.6	7.25	736	15.31	1.6	421,000	<700	<250	4,700
	11/12/12	1.01	10.6	6.41	690	13.20	0.740	439,000	--	<250	4,900
	02/20/13	1.58	35.4	6.90	868	9.59	1.9	425,000	--	<250	6,500
MW-4	11/22/11	0.81	57.9	6.22	422	13.21	0.0	252,000	<460	<250	16,100
	03/30/12	0.98	-113.2	6.18	379	10.65	0.0	189,000	<460	<250	11,200
	05/08/12	0.37	75.9	6.18	447	12.36	0.0	210,000	<700	<250	11,200
	08/16/12	0.65	-26.4	7.08	570	15.84	0.0	311,000	<700	<250	10,900
	11/12/12	1.08	55.4	6.48	355	13.76	<0.010	193,000	--	<250	10,400
	02/20/13	0.81	70.4	6.81	477	9.84	0.12	226,000	--	<250	10,800
MW-5	11/22/11	0.80	-123	6.43	691	13.13	1.2	415,000	<460	<250	12,700
	03/30/12	0.70	-38.1	6.75	982	10.25	0.8	418,000	<460	<250	2,300
	05/08/12	0.25	27.8	6.40	994	12.60	1.8	433,000	<700	<250 ¹	2,300
	08/16/12	0.92	-29.4	6.84	950	18.79	3.2	421,000	<700	<250	<1,500
	11/12/12	0.85	17.8	7.00	860	14.55	2.8	461,000	--	<250	2,000
	02/20/13	1.91	60.4	6.85	1,150	9.43	4.6	461,000	--	<250	2,500

TABLE 2
GROUNDWATER MNA PARAMETERS
76 PRODUCTS FACILITY NO. 351448
200 South 36th Street, Bellingham, Washington

Well ID	Sample Date	Dissolved Oxygen (mg/L)	ORP (mV)	pH	Conductivity (µS/cm)	Temperature (°C)	Ferrous Iron (mg/L)	Alkalinity to pH 4.5 (µg/L as CaCO ₃)	Alkalinity to pH 8.3 (µg/L as CaCO ₃)	Nitrate (µg/L)	Sulfate (µg/L)
MW-6	11/22/11	0.87	-29.5	6.48	545	13.28	0.6	294,000	<460	<250	4,900
	03/30/12	0.96	-40.3	6.80	730	10.43	0.6	306,000	<460	<250	8,700
	05/08/12	0.21	14.4	6.59	659	12.47	2.5	322,000	<700	<250 ¹	3,800
	08/16/12	1.21	-206	7.35	685	16.10	1.8	309,000	<700	<250	5,800
	11/12/12	1.50	4.4	6.85	641	12.92	1.3	315,000	--	<250	2,400
	02/20/13	2.25	70.6	6.93	884	9.72	3.0	337,000	--	<250	2,700
MW-7	11/22/11	0.83	-51.5	6.32	454	12.26	0.2	260,000	<460	<250	<1,500
	03/30/12	1.14	-31.3	6.20	690	9.44	0.4	318,000	<460	<250	5,500
	05/08/12	0.22	-46.5	6.50	667	12.69	0.2	312,000	<700	<250	3,500
	08/16/12	0.53	-74.6	6.98	581	18.14	2.0	314,000	<700	<250	<1,500
	11/12/12	0.92	-21.4	6.54	571	14.30	10.3	334,000	--	<250	2,400
	02/20/13	0.89	-20.4	6.74	686	9.39	19.5	315,000	--	<250	4,000
MW-8	11/22/11	0.78	-37.7	6.44	614	12.96	1.8	382,000	<460	<250	3,500
	03/30/12	0.87	-23.4	6.75	774	11.34	1.2	422,000	<460	<250	5,700
	05/08/12	0.63	36.4	6.56	774	12.65	1.6	444,000	<700	<250	6,200
	08/16/12	0.60	-43.4	7.20	715	17.56	1.0	457,000	<700	<250	5,100
	11/12/12	0.87	10.6	6.73	643	16.15	0.880	368,000	--	<250	3,600
	02/20/13	0.99	18.1	6.75	854	11.20	1.1	445,000	--	<250	5,900

ABBREVIATIONS:

mg/L = Milligrams per liter
MNA = Mitigated natural attenuation
mV = Millivolts
ORP = Oxidation-reduction potential
µg/L = Micrograms per liter
< = Less than the stated laboratory reporting limit
µS/cm = MicroSiemens per centimeter
°C = Degrees Celsius

NOTES:

Field measurements collected using YSI 556.
Nitrate and sulfate analyzed by United States Environmental Protection Agency Method 300.0.
Alkalinity analyzed by SM20 2320 B method.
Ferrous iron analyzed by SM20 3500 Fe B modified; prior to the 11/12/12 sampling event, ferrous iron was analyzed in the field.

1 The holding time was not met.

Attachment A:
Groundwater Monitoring and Sampling Data Package

WELL GAUGING DATA

Project # 130220-LB1 Date 2/20/13 Client CHEVRON

Site 200 S 36TH ST, BELLENGHAM, WA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-1	0745	2					5.07	22.76		
MW-2	0756	2					8.18	20.72		
MW-3	0736	2					4.95	20.93		
MW-4	0803	2					6.18	20.31		
MW-5	0740	2					3.99	13.62		
MW-6	0730	2					5.41	13.76		
MW-7	0810	2					6.44	18.02		
MW-8	0752	2					7.46	17.45	↓	

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>B0220-LB</u>	Client: <u>CHEVRON</u>
Sampler: <u>LB</u>	Gauging Date: <u>2/20/13</u>
Well I.D.: <u>MW-1</u>	Well Diameter (in.): <u>Ø 3 4 6 8</u>
Total Well Depth (ft.): <u>22.76</u>	Depth to Water (ft.): <u>5.07</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>RVC</u> Grade	Flow Cell Type: <u>YSE 536</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1040 Flow Rate: 200 mL/MIN Pump Depth: 14'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to Water (ft.)
1043	12.00	6.90	840	13	1.54	833	600	5.14
1046	12.23	6.88	837	11	1.45	75.7	900 1200	5.18
1049	12.24	6.89	835	10	1.42	74.6	1800	5.19
1052	12.25	6.89	834	10	1.41	73.7	2400	5.21
1055	12.24	6.90	833	10	1.40	72.1	3000	5.22
Post	12.20	6.91	835	10	1.39	72.8	Fe ²⁺ =	0.8 mg/L

Did well dewater? Yes No Amount actually evacuated: 3L

Sampling Time: 1056 Sampling Date: 2/20/13

Sample I.D.: MW-1 Laboratory: LANCASTER

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-L) Other: SEE COL

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>130220-LB1</u>	Client: <u>CHEVRON</u>
Sampler: <u>LB</u>	Gauging Date: <u>2/20/13</u>
Well I.D.: <u>MW-2</u>	Well Diameter (in.): <u>Ø 3 4 6 8</u>
Total Well Depth (ft.): <u>20.72</u>	Depth to Water (ft.): <u>8.18</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PCE</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1151 Flow Rate: 200 mL / MIN Pump Depth: 14.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1154	10.74	6.57	537	10	0.96	51.8	600	8.21
1157	10.87	6.59	536	8	0.85	49.7	1200	8.24
1200	10.93	6.57	534	8	0.84	43.4	1800	8.26
1203	10.94	6.56	533	8	0.83	42.1	2400	8.29
1206	10.93	6.57	533	7	0.82	41.5	3000	8.31
Post	10.84	6.56	531	8	0.81	41.9	Fe ²⁺	0.0mg/L

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: <u>3 L</u>
Sampling Time: <u>1207</u>	Sampling Date: <u>2/20/13</u>
Sample I.D.: <u>MW-2</u>	Laboratory: <u>LANCASTER</u>
Analyzed for: <u>TPH-C</u> <u>BTEX</u> <u>MIBE</u> <u>TPH-D</u>	Other: <u>S&P COC</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

LOW FLOW WELL MONITORING DATA SHEET

Project #: 130220-LB1	Client: CHEVRON
Sampler: LB	Gauging Date: 2/20/13
Well I.D.: MW-5	Well Diameter (in.): <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 _____
Total Well Depth (ft.): 13.62	Depth to Water (ft.): 3.99
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="checkbox"/> RVD <input type="checkbox"/> Grade	Flow Cell Type: YSE 536

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0953 Flow Rate: 200 mL/MIN Pump Depth: 9'

Time	Temp. (C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to Water (ft.)
0956	9.34	6.98	1151	9	2.09	70.3	600	4.06
0959	9.53	6.95	1155	8	1.98	68.2	1200	4.09
1002	9.55	6.93	1156	8	1.96	67.4	1800	4.11
1005	9.57	6.91	1156	9	1.95	66.8	2400	4.15
1008	9.58	6.89	1155	9	1.94	65.1	3000	4.16
Post	9.43	6.85	1150	8	1.91	60.4	Fe ²⁺ =	1.4 mg/L

Did well dewater? Yes <input checked="" type="checkbox"/> No	Amount actually evacuated: 3L
Sampling Time: 1009	Sampling Date: 2/20/13
Sample I.D.: MW-5	Laboratory: LANCASTER
Analyzed for: <input checked="" type="checkbox"/> TPH-C <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE <input checked="" type="checkbox"/> TPH-D	Other: SEE COL
Equipment Blank I.D.: @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 130220-LB1	Client: <u>CHEVRON</u>
Sampler: <u>LB</u>	Gauging Date: <u>2/20/13</u>
Well I.D.: <u>MW-6</u>	Well Diameter (in.): <u>Ø 3 4 6 8</u>
Total Well Depth (ft.): <u>13.76</u>	Depth to Water (ft.): <u>5.41</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PYC</u> Grade	Flow Cell Type: <u>YSI 536</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0825 Flow Rate: 200 mL/min Pump Depth: 10'

Time	Temp. (C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0828	9.44	6.92	928	10	2.53	84.9	600	5.46
0831	9.63	6.99	894	8	2.36	79.0	1200	5.48
0834	9.67	6.98	895	7	2.32	78.2	1800	5.51
0837	9.66	6.97	894	6	2.29	76.8	2400	5.53
0840	9.67	6.95	892	5	2.28	75.2	3000	5.54
Post	9.72	6.93	884	6	2.25	70.0	Fe ²⁺ =	0.8 mg/L

Did well dewater? Yes No Amount actually evacuated: 3L

Sampling Time: 0841 Sampling Date: 2/20/13

Sample I.D.: MW-6 Laboratory: LANCASTER

Analyzed for: TPH BTEX MTBE TPH-D Other: SEE COL

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>130220-LB1</u>	Client: <u>CHEVRON</u>
Sampler: <u>LB</u>	Gauging Date: <u>2/20/13</u>
Well I.D.: <u>MW-7</u>	Well Diameter (in.): <u>Ø</u> 3 4 6 8 <u> </u>
Total Well Depth (ft.): <u>18.02</u>	Depth to Water (ft.): <u>6.44</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVO</u> Grade	Flow Cell Type: <u>YSE 536</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1305 Flow Rate: 200 mL/MIN Pump Depth: 12.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1308	9.23	6.70	685	11	0.94	-16.9	600	6.49
1314	9.35	6.75	689	10	0.91	-21.1	1200	6.51
1314	9.38	6.77	691	10	0.89	-22.2	1800	6.53
1317	9.39	6.78	692	10	0.87	-23.4	2400	6.56
1320	9.41	6.77	692	10	0.85	-25.1	3000	6.57
Post	9.39	6.74	686	10	0.89	-20.4	Fe ²⁺ =	1.8mg/L

Did well dewater? Yes No Amount actually evacuated: 3L

Sampling Time: 1321 Sampling Date: 2/20/13

Sample I.D.: MW-7 Laboratory: LANCASTER


Analyzed for: TPH-G BTEX MTBE TPH-D Other: SEE COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

CHAIN OF CUSTODY FORM

Chevron Site Number: 35-1448 Chevron Consultant: SAIC Address: 405 S 8th St, Suite 301, Boise ID **Chevron Environmental Management Company ■ 6001 Bollinger Canyon Road ■ San Ramon, CA 94583-2324** COC 1 of 1

Program Designation: CMP
 Site Address (street, city, state / county): 200 S 36th St, Bellingham, WA
 Chevron PM:
 Chevron PM Phone No.:
 Retail and Terminal Business Unit (RTBU) Job
 Construction/Retail Job

Consultant Contact: Ron Santos
 Consultant Phone No. (208) 429-3772
 Consultant Project No. 130220-LB1
 Sampling Company: Blaine Tech Services
 Sampled By (Print): LEE BOULOS
 Sampler Signature: 

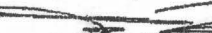
Charge Code: NWRTB 00SITE NUMBER-0- OML
WBS ELEMENTS:
 SITE ASSESSMENT: A1L REMEDIATION IMPLEMENTATION: R5L
 SITE MONITORING: OML OPERATION MAINTENANCE & MONITORING: M1L

Lancaster Laboratories
 Lancaster, PA
 Lab Contact: Megan Moeller
 2425 New Holland Pike,
 Lancaster, PA 17601
 Phone No:
 (717)656-2300

Other Lab _____
 Temp. Blank Check Time _____
 Temp. _____

ANALYSES REQUIRED												Preservation Codes
H	H	H	H	H	H	H	H	H	H	H	H	
TPH-DRO w/ SILICA GEL CLEANUP (97-602M) (NWTPH-DX w/ SCC)												H=HCL, T=Thiosulfate N=HNO ₃ , B=NaOH S=H ₂ SO ₄ , O=Other
TPH-ORO w/ SILICA GEL CLEANUP (97-602M) (NWTPH-DX w/ SCC)												
TPH-HRO w/ SILICA GEL CLEANUP (97-602M) (NWTPH-DX w/ SCC)												Special Instructions
8260B FULL LISTO ETHANOL												
PAH's												Special Instructions
TPH-G (NWTPH-Gx)												
TOTAL LEAD (6020)												Special Instructions
DISSOLVED LEAD (6020)												
TPH-D AND TPH-O BY (NWTPH-DX)												Special Instructions
ALKALINITY												
NETRAN												Special Instructions
SULFATE												

SAMPLE ID				Sample Time	# of Containers	Container Type	Notes/Comments
Field Point Name	Matrix	Top Depth	Date (yymmdd)				
MW-1	GW	—	130220	1056	13	VOA, AMBER, RLY	
MW-2	GW	—	130220	1207	↓		
MW-3	GW	—	130220	0924			
MW-4	GW	—	130220	1247			
MW-5	GW	—	130220	1009			
MW-6	GW	—	130220	0841			
MW-7	GW	—	130220	1321			
MW-8	GW	—	130220	1134			
QA	GW	—	130220	0880		3	VOA

Relinquished By 	Company _____	Date/Time: <u>2/20/13</u>	Relinquished To <u>SHIPPED</u>	Company <u>VIA FEDEX</u>	Date/Time _____	Turnaround Time: Standard <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 hours <input type="checkbox"/> 72 Hours <input type="checkbox"/> Other <input type="checkbox"/> Sample Integrity: (Check by lab on arrival) Intact: _____ On Ice: _____ Temp: _____ COC # _____
Relinquished By _____	Company _____	Date/Time _____	Relinquished To _____	Company _____	Date/Time _____	
Relinquished By _____	Company _____	Date/Time _____	Relinquished To _____	Company _____	Date/Time _____	

WELLHEAD INSPECTION FORM

Client: CHEVRON Site: 200 S 30TH ST, BELLINGHAM, WA Date: 2/20/13
 Job #: 130220-LBI Technician: L. BURES Page 1 of 1

Well ID	Well Inspected - No Corrective Action Required	Check indicates deficiency											Well Not Inspected (explain in notes)	Notes <small>(list if cap or lick replaced, if there are access issues associated with repairs, if traffic control is required, if stand pipe damaged, or any specific details not covered by checklist)</small>		
		Cap non-functional	Lock non-functional	Lock missing	Bolts missing (list qty)	Tabs stripped (list qty)	Tabs broken (list qty)	Annular seal incomplete	Apron damaged	Rim / Lid broken	Trip Hazard	Below Grade			Other (explain in notes)	
MW-1	X															
MW-2	X															
MW-3	X															
MW-4	X															
MW-5	X															
MW-6	X															
MW-7	X															
MW-8									X							

NOTES: _____

CHEVRON-WASHINGTON/OREGON TYPE **A** BILL OF LADING

SOURCE RECORD **BILL OF LADING**

FOR PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT CHEVRON FACILITIES IN THE STATE OF WASHINGTON AND OREGON. THE PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND- WATER WELLS IS COLLECTED BY THE CONTRACTOR AND HAULED TO THEIR FACILITY IN KENT, WASHINGTON FOR TEMPORARILY HOLDING PENDING TRANSPORT BY OTHERS TO FINAL DESTINATION.

The contractor performing this work is BLAINE TECH SERVICES, INC. (BLAINE TECH), 22727 72ND Ave South, Suite D - 102, Kent, WA 98032. BLAINE TECH. is authorized by Chevron Environmental Management Company (CHEVRON EMC) to recover, collect, apportion into loads, and haul the purgewater that is drawn from wells at the CHEVRON EMC facility indicated below and to deliver that purgewater to BLAINE TECH for temporarily holding. Transport routing of the purgewater may be direct from one CHEVRON EMC facility to BLAINE TECH; from one CHEVRON EMC facility to BLAINE TECH via another CHEVRON EMC facility; or any combination thereof. The well purgewater is and remains the property of CHEVRON EMC.

This Source Record **BILL OF LADING** was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the Chevron facility described below:

CHEVRON # 35-1448 J. MARK INGLIS
Chevron Project Manager

200 S. 36TH ST. BELLINGHAM WA
Street number street name city state

WELL I.D.	GALS.	WELL I.D.	GALS.
MW-1	/ 1.0	/	
MW-2	/ 1.0	/	
MW-3	/ 1.0	/	
MW-4	/ 1.0	/	
MW-5	/ 1.0	/	
MW-6	/ 1.0	/	
MW-7	/ 1.0	/	
MW-8	/ 1.0	/	
/		/	
/		/	

added equip. rinse water / 8

any other adjustments /

TOTAL GALS. RECOVERED 16

loaded onto BTS vehicle # 88

BTS event # 130220-LB1 time 1345 date 2/20/13

signature [Signature]

Blaine Tech Services, Inc.

Permit To Work for Chevron EMC Sites

Client: CHEVRON

Date 2/20/13

Site Address: 200 S 30TH ST, BELLINGHAM, WA

Job Number: 130220-LB1 Technician(s): L. BURES

Pre-Job Safety Review

1. JMP reviewed, site restrictions and parking/access issues addressed.

Reviewed:

2. Special Permit Required Task Review

Are there any conditions or tasks that would require:

- | | Yes | No |
|---|--------------------------|-------------------------------------|
| Confined space entry | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Working at height | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Lock-out/Tag-out | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Excavations greater than 4 feet deep | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Excavations within 3 feet of a buried active electrical line or product piping or within 10 feet of a high pressure gas line. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Use of overhead equipment within 15 feet of an overhead electrical power line or pole supporting one | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Hot work | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

If "Yes" was the answer to any of the Special Permit Required Tasks above, the Project Manager will contact the client and arrange to modify the Scope of Work so that the Special Permit Required Tasks are not required to be performed by Blaine Tech Services employees.

3. Is a Traffic Control Permit required for today's work?

Yes No

If so is it in the folder?

Is it current?

Do you understand the Traffic Control Plan and what equipment you will need?

On site Pre-Job Safety Review

1. Reviewed and signed the site specific HASP.
2. Route to hospital understood.
3. Reviewed "Groundwater Monitoring Well Sampling General Job Safety Analysis included in the HASP.
4. Exceptional circumstances today that are not covered by the HASP, JSA or JMP have been addressed and mitigated.
5. Understands procedure to follow, if site circumstances change, to address new site hazards.
6. There are no unexpected conditions which would make your task a Special Permit Required Task. If there is, contact your Project Manager.
7. All site hazards have been communicated to all necessary onsite personnel during tailgate safety meeting.
8. After lunch tailgate safety meeting refresher conducted.

If Checklist Task cannot be completed, explain:

Permit To Work Authority:

[Signature]
Name

pm 2/18/13
Title Date

1100
Time

Attachment B:
Laboratory Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

March 04, 2013

Project: 351448

Submittal Date: 02/21/2013
Group Number: 1370425
PO Number: 0015093283
Release Number: INGLIS
State of Sample Origin: WA

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
MW-1 NA Groundwater	6960207
MW-2 NA Groundwater	6960208
MW-3 NA Groundwater	6960209
MW-4 NA Groundwater	6960210
MW-5 NA Groundwater	6960211
MW-6 NA Groundwater	6960212
MW-7 NA Groundwater	6960213
MW-8 NA Groundwater	6960214
QA NA Water	6960215

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	Blaine Tech Services	Attn: Alex Stack
ELECTRONIC COPY TO	SAIC	Attn: Ron Santos
ELECTRONIC COPY TO	SAIC	Attn: Kinga Kozlowska
ELECTRONIC COPY TO	SAIC	Attn: Gabe Cisneros

Respectfully Submitted,

Jill M. Parker

Jill M. Parker
Senior Specialist

(717) 556-7262

Sample Description: MW-1 NA Groundwater
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960207
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 10:56 by LB

Chevron

L4310

Submitted: 02/21/2013 09:10

6001 Bollinger Canyon Road

Reported: 03/04/2013 15:42

San Ramon CA 94583

36BM1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l ug/l					
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethanol	64-17-5	N.D.	50	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles ECY 97-602 NWTPH-Gx ug/l ug/l					
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons ECY 97-602 NWTPH-Dx modified ug/l ug/l					
08271	Diesel Range Organics C12-C24	n.a.	200	28	1
08271	Heavy Range Organics C24-C40	n.a.	210	66	1
Wet Chemistry EPA 300.0 ug/l ug/l					
00368	Nitrate Nitrogen	14797-55-8	N.D.	250	5
00228	Sulfate	14808-79-8	N.D.	1,500	5
Total Alkalinity SM 2320 B-1997 ug/l as CaCO3 ug/l as CaCO3					
12150	Total Alkalinity	n.a.	408,000	700	1
Ferrous Iron SM 3500-Fe B modified-1997 ug/l ug/l					
08344	Ferrous Iron	n.a.	5,600	200	20

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	F130583AA	02/28/2013 02:25	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F130583AA	02/28/2013 02:25	Brett W Kenyon	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13056A20A	02/26/2013 09:38	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13056A20A	02/26/2013 09:38	Catherine J Schwarz	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	130560022A	03/01/2013 14:50	Christine E Dolman	1



Lancaster
Laboratories

Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-1 NA Groundwater
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960207
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 10:56 by LB

Chevron

L4310

Submitted: 02/21/2013 09:10

6001 Bollinger Canyon Road

Reported: 03/04/2013 15:42

San Ramon CA 94583

36BM1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	130560022A	02/26/2013 10:15	Elizabeth A Sholder	1
00368	Nitrate Nitrogen	EPA 300.0	1	13052987602A	02/21/2013 21:54	Clinton M Wilson	5
00228	Sulfate	EPA 300.0	1	13052987602A	02/21/2013 21:54	Clinton M Wilson	5
12150	Total Alkalinity	SM 2320 B-1997	1	13053019103A	02/22/2013 08:50	Clayton C Litchmore	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	13056834401A	02/25/2013 19:35	Daniel S Smith	20

Sample Description: MW-2 NA Groundwater
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960208
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 12:07 by LB

Chevron

L4310

Submitted: 02/21/2013 09:10

6001 Bollinger Canyon Road

Reported: 03/04/2013 15:42

San Ramon CA 94583

36BM2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles					
	SW-846 8260B		ug/l	ug/l	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethanol	64-17-5	N.D.	50	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles					
	ECY 97-602 NWTPH-Gx		ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons					
	ECY 97-602 NWTPH-Dx modified		ug/l	ug/l	
08271	Diesel Range Organics C12-C24	n.a.	N.D.	28	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	66	1
Wet Chemistry					
	EPA 300.0		ug/l	ug/l	
00368	Nitrate Nitrogen	14797-55-8	N.D.	250	5
00228	Sulfate	14808-79-8	14,600	1,500	5
SM 2320 B-1997					
12150	Total Alkalinity	n.a.	ug/l as CaCO3 259,000	ug/l as CaCO3 700	1
SM 3500-Fe B modified-1997					
08344	Ferrous Iron	n.a.	150	10	1

General Sample Comments

State of Washington Lab Certification No. C259

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	D130591AA	02/28/2013 12:55	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D130591AA	02/28/2013 12:55	Daniel H Heller	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13053A07A	02/26/2013 16:05	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	13053A07A	02/26/2013 16:05	Marie D John	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	130560022A	03/01/2013 13:19	Christine E Dolman	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	130560022A	02/26/2013 10:15	Elizabeth A Sholder	1



Lancaster
Laboratories

Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-2 NA Groundwater
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960208
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 12:07 by LB

Chevron

L4310

Submitted: 02/21/2013 09:10

6001 Bollinger Canyon Road

Reported: 03/04/2013 15:42

San Ramon CA 94583

36BM2

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	13052987602A	02/21/2013 23:10	Clinton M Wilson	5
00228	Sulfate	EPA 300.0	1	13052987602A	02/21/2013 23:10	Clinton M Wilson	5
12150	Total Alkalinity	SM 2320 B-1997	1	13053019104A	02/22/2013 09:17	Clayton C Litchmore	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	13056834401A	02/25/2013 19:35	Daniel S Smith	1

Sample Description: MW-3 NA Groundwater
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960209
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 09:24 by LB

Chevron

L4310

Submitted: 02/21/2013 09:10

6001 Bollinger Canyon Road

Reported: 03/04/2013 15:42

San Ramon CA 94583

36BM3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles					
	SW-846 8260B		ug/l	ug/l	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethanol	64-17-5	N.D.	50	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles					
	ECY 97-602 NWTPH-Gx		ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons					
	ECY 97-602 NWTPH-Dx modified		ug/l	ug/l	
08271	Diesel Range Organics C12-C24	n.a.	68	28	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	66	1
Wet Chemistry					
	EPA 300.0		ug/l	ug/l	
00368	Nitrate Nitrogen	14797-55-8	N.D.	250	5
00228	Sulfate	14808-79-8	6,500	1,500	5
SM 2320 B-1997					
12150	Total Alkalinity	n.a.	425,000	700	1
SM 3500-Fe B modified-1997					
08344	Ferrous Iron	n.a.	1,900	50	5

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	D130591AA	02/28/2013 14:02	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D130591AA	02/28/2013 14:02	Daniel H Heller	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13053A07A	02/26/2013 16:31	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	13053A07A	02/26/2013 16:31	Marie D John	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	130560022A	03/01/2013 13:42	Christine E Dolman	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	130560022A	02/26/2013 10:15	Elizabeth A Sholder	1



Lancaster
Laboratories

Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-3 NA Groundwater
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960209
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 09:24 by LB

Chevron

L4310

Submitted: 02/21/2013 09:10

6001 Bollinger Canyon Road

Reported: 03/04/2013 15:42

San Ramon CA 94583

36BM3

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	13052987602A	02/21/2013 23:25	Clinton M Wilson	5
00228	Sulfate	EPA 300.0	1	13052987602A	02/21/2013 23:25	Clinton M Wilson	5
12150	Total Alkalinity	SM 2320 B-1997	1	13053019104A	02/22/2013 09:35	Clayton C Litchmore	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	13056834401A	02/25/2013 19:35	Daniel S Smith	5



Sample Description: MW-4 NA Groundwater
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960210
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 12:47 by LB

Chevron

L4310

Submitted: 02/21/2013 09:10

6001 Bollinger Canyon Road

Reported: 03/04/2013 15:42

San Ramon CA 94583

36BM4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles					
	SW-846 8260B		ug/l	ug/l	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethanol	64-17-5	N.D.	50	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles					
	ECY 97-602 NWTPH-Gx		ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons					
	ECY 97-602 NWTPH-Dx modified		ug/l	ug/l	
08271	Diesel Range Organics C12-C24	n.a.	N.D.	29	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	67	1
Wet Chemistry					
	EPA 300.0		ug/l	ug/l	
00368	Nitrate Nitrogen	14797-55-8	N.D.	250	5
00228	Sulfate	14808-79-8	10,800	1,500	5
SM 2320 B-1997					
12150	Total Alkalinity	n.a.	226,000 ug/l as CaCO3	700 ug/l as CaCO3	1
SM 3500-Fe B modified-1997					
08344	Ferrous Iron	n.a.	120 ug/l	10 ug/l	1

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	D130591AA	02/28/2013 14:24	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D130591AA	02/28/2013 14:24	Daniel H Heller	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13053A07A	02/26/2013 16:56	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	13053A07A	02/26/2013 16:56	Marie D John	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	130560022A	03/01/2013 14:05	Christine E Dolman	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	130560022A	02/26/2013 10:15	Elizabeth A Sholder	1



Lancaster
Laboratories

Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-4 NA Groundwater
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960210
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 12:47 by LB

Chevron

L4310

Submitted: 02/21/2013 09:10

6001 Bollinger Canyon Road

Reported: 03/04/2013 15:42

San Ramon CA 94583

36BM4

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	13052987602A	02/21/2013 23:40	Clinton M Wilson	5
00228	Sulfate	EPA 300.0	1	13052987602A	02/21/2013 23:40	Clinton M Wilson	5
12150	Total Alkalinity	SM 2320 B-1997	1	13053019104A	02/22/2013 09:40	Clayton C Litchmore	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	13056834401A	02/25/2013 19:35	Daniel S Smith	1



Sample Description: MW-5 NA Groundwater
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960211
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 10:09 by LB

Chevron

L4310

Submitted: 02/21/2013 09:10

6001 Bollinger Canyon Road

Reported: 03/04/2013 15:42

San Ramon CA 94583

36BM5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles					
	SW-846 8260B		ug/l	ug/l	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethanol	64-17-5	N.D.	50	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles					
	ECY 97-602 NWTPH-Gx		ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons					
	ECY 97-602 NWTPH-Dx modified		ug/l	ug/l	
08271	Diesel Range Organics C12-C24	n.a.	160	28	1
08271	Heavy Range Organics C24-C40	n.a.	180	66	1
Wet Chemistry					
	EPA 300.0		ug/l	ug/l	
00368	Nitrate Nitrogen	14797-55-8	N.D.	250	5
00228	Sulfate	14808-79-8	2,500	1,500	5
SM 2320 B-1997					
12150	Total Alkalinity	n.a.	ug/l as CaCO3 461,000	ug/l as CaCO3 700	1
SM 3500-Fe B modified-1997					
08344	Ferrous Iron	n.a.	4,600	100	10

General Sample Comments

State of Washington Lab Certification No. C259

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	D130591AA	02/28/2013 14:46	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D130591AA	02/28/2013 14:46	Daniel H Heller	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13053A07A	02/26/2013 17:21	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	13053A07A	02/26/2013 17:21	Marie D John	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	130560022A	03/01/2013 15:12	Christine E Dolman	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	130560022A	02/26/2013 10:15	Elizabeth A Sholder	1



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Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-5 NA Groundwater
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960211
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 10:09 by LB

Chevron

L4310

Submitted: 02/21/2013 09:10

6001 Bollinger Canyon Road

Reported: 03/04/2013 15:42

San Ramon CA 94583

36BM5

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	13052987602A	02/21/2013 23:55	Clinton M Wilson	5
00228	Sulfate	EPA 300.0	1	13052987602A	02/21/2013 23:55	Clinton M Wilson	5
12150	Total Alkalinity	SM 2320 B-1997	1	13053019104A	02/22/2013 09:46	Clayton C Litchmore	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	13056834401A	02/25/2013 19:35	Daniel S Smith	10

Sample Description: MW-6 NA Groundwater
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960212
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 08:41 by LB

Chevron

L4310

Submitted: 02/21/2013 09:10

6001 Bollinger Canyon Road

Reported: 03/04/2013 15:42

San Ramon CA 94583

36BM6

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles					
		SW-846 8260B	ug/l	ug/l	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethanol	64-17-5	N.D.	50	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles					
		ECY 97-602 NWTPH-Gx	ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons					
		ECY 97-602 NWTPH-Dx modified	ug/l	ug/l	
08271	Diesel Range Organics C12-C24	n.a.	46	28	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	66	1
Wet Chemistry					
		EPA 300.0	ug/l	ug/l	
00368	Nitrate Nitrogen	14797-55-8	N.D.	250	5
00228	Sulfate	14808-79-8	2,700	1,500	5
Total Alkalinity					
		SM 2320 B-1997	ug/l as CaCO3	ug/l as CaCO3	
12150	Total Alkalinity	n.a.	337,000	700	1
Ferrous Iron					
		SM 3500-Fe B modified-1997	ug/l	ug/l	
08344	Ferrous Iron	n.a.	3,000	50	5

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	D130591AA	02/28/2013 15:08	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D130591AA	02/28/2013 15:08	Daniel H Heller	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13053A07A	02/26/2013 17:47	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	13053A07A	02/26/2013 17:47	Marie D John	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	130560022A	03/01/2013 14:27	Christine E Dolman	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	130560022A	02/26/2013 10:15	Elizabeth A Sholder	1



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Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-6 NA Groundwater
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960212
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 08:41 by LB

Chevron

L4310

Submitted: 02/21/2013 09:10

6001 Bollinger Canyon Road

Reported: 03/04/2013 15:42

San Ramon CA 94583

36BM6

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	13052987602A	02/22/2013 00:10	Clinton M Wilson	5
00228	Sulfate	EPA 300.0	1	13052987602A	02/22/2013 00:10	Clinton M Wilson	5
12150	Total Alkalinity	SM 2320 B-1997	1	13053019104A	02/22/2013 09:52	Clayton C Litchmore	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	13056834401A	02/25/2013 19:35	Daniel S Smith	5

Sample Description: MW-7 NA Groundwater
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960213
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 13:21 by LB

Chevron

L4310

Submitted: 02/21/2013 09:10

6001 Bollinger Canyon Road

Reported: 03/04/2013 15:42

San Ramon CA 94583

36BM7

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles					
	SW-846 8260B		ug/l	ug/l	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethanol	64-17-5	N.D.	50	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles					
	ECY 97-602 NWTTPH-Gx		ug/l	ug/l	
08273	NWTTPH-Gx water C7-C12	n.a.	98	50	1
GC Petroleum Hydrocarbons					
	ECY 97-602 NWTTPH-Dx modified		ug/l	ug/l	
08271	Diesel Range Organics C12-C24	n.a.	N.D.	29	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	67	1
Wet Chemistry					
	EPA 300.0		ug/l	ug/l	
00368	Nitrate Nitrogen	14797-55-8	N.D.	250	5
00228	Sulfate	14808-79-8	4,000	1,500	5
SM 2320 B-1997					
12150	Total Alkalinity	n.a.	ug/l as CaCO3 315,000	ug/l as CaCO3 700	1
SM 3500-Fe B modified-1997					
08344	Ferrous Iron	n.a.	19,500	500	50

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	D130591AA	02/28/2013 15:31	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D130591AA	02/28/2013 15:31	Daniel H Heller	1
08273	NWTTPH-Gx water C7-C12	ECY 97-602 NWTTPH-Gx	1	13053A07A	02/26/2013 18:12	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	13053A07A	02/26/2013 18:12	Marie D John	1
08271	NWTTPH-Dx water	ECY 97-602 NWTTPH-Dx modified	1	130560022A	03/01/2013 15:35	Christine E Dolman	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTTPH-Dx 06/97	1	130560022A	02/26/2013 10:15	Elizabeth A Sholder	1



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Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-7 NA Groundwater
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960213
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 13:21 by LB

Chevron

L4310

Submitted: 02/21/2013 09:10

6001 Bollinger Canyon Road

Reported: 03/04/2013 15:42

San Ramon CA 94583

36BM7

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	13052987602A	02/22/2013 00:25	Clinton M Wilson	5
00228	Sulfate	EPA 300.0	1	13052987602A	02/22/2013 00:25	Clinton M Wilson	5
12150	Total Alkalinity	SM 2320 B-1997	1	13053019104A	02/22/2013 09:57	Clayton C Litchmore	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	13056834401A	02/25/2013 19:35	Daniel S Smith	50



Sample Description: MW-8 NA Groundwater
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960214
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 11:34 by LB

Chevron

L4310

Submitted: 02/21/2013 09:10

6001 Bollinger Canyon Road

Reported: 03/04/2013 15:42

San Ramon CA 94583

36BM8

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l ug/l					
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethanol	64-17-5	N.D.	50	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles ECY 97-602 NWTPH-Gx ug/l ug/l					
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons ECY 97-602 NWTPH-Dx modified ug/l ug/l					
08271	Diesel Range Organics C12-C24	n.a.	820	29	1
08271	Heavy Range Organics C24-C40	n.a.	180	67	1
Wet Chemistry EPA 300.0 ug/l ug/l					
00368	Nitrate Nitrogen	14797-55-8	N.D.	250	5
00228	Sulfate	14808-79-8	5,900	1,500	5
SM 2320 B-1997 ug/l as CaCO3 ug/l as CaCO3					
12150	Total Alkalinity	n.a.	445,000	700	1
SM 3500-Fe B modified-1997 ug/l ug/l					
08344	Ferrous Iron	n.a.	1,100	50	5

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	D130591AA	02/28/2013 15:53	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D130591AA	02/28/2013 15:53	Daniel H Heller	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13053A07A	02/26/2013 18:37	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	13053A07A	02/26/2013 18:37	Marie D John	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	130560022A	03/01/2013 15:57	Christine E Dolman	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	130560022A	02/26/2013 10:15	Elizabeth A Sholder	1



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Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-8 NA Groundwater
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960214
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 11:34 by LB

Chevron

L4310

Submitted: 02/21/2013 09:10

6001 Bollinger Canyon Road

Reported: 03/04/2013 15:42

San Ramon CA 94583

36BM8

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	13052987602A	02/22/2013 00:41	Clinton M Wilson	5
00228	Sulfate	EPA 300.0	1	13052987602A	02/22/2013 00:41	Clinton M Wilson	5
12150	Total Alkalinity	SM 2320 B-1997	1	13053019104A	02/22/2013 10:11	Clayton C Litchmore	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	13056834401A	02/25/2013 19:35	Daniel S Smith	5

Sample Description: QA NA Water
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960215
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 08:00

Chevron

L4310

Submitted: 02/21/2013 09:10

6001 Bollinger Canyon Road

Reported: 03/04/2013 15:42

San Ramon CA 94583

36BQA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles					
		SW-846 8260B	ug/l	ug/l	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethanol	64-17-5	N.D.	50	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles					
		ECY 97-602 NWTPH-Gx	ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	D130591AA	02/28/2013 16:15	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D130591AA	02/28/2013 16:15	Daniel H Heller	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13053A07A	02/26/2013 11:00	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	13053A07A	02/26/2013 11:00	Marie D John	1

Quality Control Summary

 Client Name: Chevron
 Reported: 03/04/13 at 03:42 PM

Group Number: 1370425

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: D130591AA	Sample number(s): 6960208-6960215							
Benzene	N.D.	0.5	ug/l	102		77-121		
Ethanol	N.D.	50.	ug/l	93		54-149		
Ethylbenzene	N.D.	0.5	ug/l	105		79-120		
Toluene	N.D.	0.5	ug/l	105		79-120		
Xylene (Total)	N.D.	0.5	ug/l	108		77-120		
Batch number: F130583AA	Sample number(s): 6960207							
Benzene	N.D.	0.5	ug/l	92		77-121		
Ethanol	N.D.	50.	ug/l	84		54-149		
Ethylbenzene	N.D.	0.5	ug/l	95		79-120		
Toluene	N.D.	0.5	ug/l	95		79-120		
Xylene (Total)	N.D.	0.5	ug/l	97		77-120		
Batch number: 13053A07A	Sample number(s): 6960208-6960215							
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	88	88	75-135	1	30
Batch number: 13056A20A	Sample number(s): 6960207							
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	93	90	75-135	3	30
Batch number: 130560022A	Sample number(s): 6960207-6960214							
Diesel Range Organics C12-C24	N.D.	30.	ug/l	69	67	50-113	2	20
Heavy Range Organics C24-C40	N.D.	70.	ug/l					
Batch number: 13052987602A	Sample number(s): 6960207-6960214							
Nitrate Nitrogen	N.D.	50.	ug/l	101		90-110		
Sulfate	N.D.	300.	ug/l	99		90-110		
Batch number: 13053019103A	Sample number(s): 6960207							
Total Alkalinity	840	700.	ug/l as CaCO3	101		90-110		
Batch number: 13053019104A	Sample number(s): 6960208-6960214							
Total Alkalinity	720	700.	ug/l as CaCO3	102		90-110		
Batch number: 13056834401A	Sample number(s): 6960207-6960214							
Ferrous Iron	N.D.	10.	ug/l	97		93-105		

Sample Matrix Quality Control

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron Group Number: 1370425

Reported: 03/04/13 at 03:42 PM

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: D130591AA	Sample number(s): 6960208-6960215 UNSPK: 6960208								
Benzene	110	98	72-134	11	30				
Ethanol	109	91	53-146	18	30				
Ethylbenzene	115	99	71-134	15	30				
Toluene	116	102	80-125	13	30				
Xylene (Total)	118	102	79-125	14	30				
Batch number: F130583AA	Sample number(s): 6960207 UNSPK: P964816								
Benzene	98	97	72-134	1	30				
Ethanol	85	93	53-146	9	30				
Ethylbenzene	101	103	71-134	2	30				
Toluene	99	100	80-125	1	30				
Xylene (Total)	99	106	79-125	5	30				
Batch number: 13052987602A	Sample number(s): 6960207-6960214 UNSPK: 6960207 BKG: 6960207								
Nitrate Nitrogen	102		90-110			N.D.	N.D.	0 (1)	20
Sulfate	102		90-110			N.D.	N.D.	0 (1)	20
Batch number: 13053019103A	Sample number(s): 6960207 UNSPK: P959931 BKG: P959931								
Total Alkalinity	92		73-121			564,000	566,000	0	5
Batch number: 13053019104A	Sample number(s): 6960208-6960214 UNSPK: 6960208 BKG: 6960208								
Total Alkalinity	94		73-121			259,000	258,000	0	5
Batch number: 13056834401A	Sample number(s): 6960207-6960214 UNSPK: P962954 BKG: P962954								
Ferrous Iron	98	95	81-112	1	6	7,300	7,200	2 (1)	5

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: UST VOCs by 8260B - Water

Batch number: D130591AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6960208	99	96	100	99
6960209	100	96	99	98
6960210	100	95	99	98
6960211	101	98	100	99
6960212	101	98	99	98
6960213	99	98	100	100
6960214	100	97	100	98
6960215	100	96	100	99
Blank	99	97	99	98
LCS	100	100	100	100
MS	99	101	100	99
MSD	100	102	100	100

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 03/04/13 at 03:42 PM

Group Number: 1370425

Surrogate Quality Control

Limits:	80-116	77-113	80-113	78-113
Analysis Name:	UST VOCs by 8260B - Water			
Batch number:	F130583AA			
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6960207	97	98	101	100
Blank	97	98	101	98
LCS	96	100	100	101
MS	96	101	102	103
MSD	95	101	102	101

Limits: 80-116 77-113 80-113 78-113

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 13053A07A
Trifluorotoluene-F

6960208	85
6960209	88
6960210	88
6960211	88
6960212	84
6960213	85
6960214	85
6960215	85
Blank	85
LCS	96
LCSD	95

Limits: 63-135

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 13056A20A
Trifluorotoluene-F

6960207	89
Blank	73
LCS	100
LCSD	98

Limits: 63-135

Analysis Name: NWTPH-Dx water
Batch number: 130560022A
Orthoterphenyl

6960207	108
6960208	98
6960209	97
6960210	101
6960211	111
6960212	108
6960213	103
6960214	92
Blank	99

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control SummaryClient Name: Chevron
Reported: 03/04/13 at 03:42 PM

Group Number: 1370425

Surrogate Quality ControlLCS 100
LCSD 97

Limits: 50-150

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but \geq IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>$ 25%	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA $<$ 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

April 03, 2013

Project: 351448

Submittal Date: 02/21/2013
Group Number: 1370425
PO Number: 0015093283
Release Number: INGLIS
State of Sample Origin: WAClient Sample DescriptionMW-1 NA Groundwater
MW-2 NA Groundwater
MW-3 NA Groundwater
MW-4 NA Groundwater
MW-5 NA Groundwater
MW-6 NA Groundwater
MW-7 NA Groundwater
MW-8 NA Groundwater
QA NA WaterLancaster Labs (LLI) #6960207
6960208
6960209
6960210
6960211
6960212
6960213
6960214
6960215

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO Blaine Tech Services
ELECTRONIC COPY TO SAIC
ELECTRONIC COPY TO SAIC
ELECTRONIC COPY TO SAIC

Attn: Alex Stack

Attn: Ron Santos

Attn: Kinga Kozlowska

Attn: Gabe Cisneros

Respectfully Submitted,

Jill M. Parker

Jill M. Parker
Senior Specialist

(717) 556-7262

April 3, 2013

Ms. Kinga Kozłowska
SAIC
18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Dear Ms. Kozłowska:

I am writing to inform you of revised analytical reports that are being issued for the following:

Project No.: 351448

Group No.: 1370425

LLI Sample No.	Client Sample Identification	Collection Date
6960213	MW-7 NA Groundwater	02/20/2013
6960214	MW-8 NA Groundwater	02/20/2013

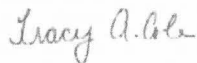
The correction to the data affects the NWTPH-Dx water analysis only.

In response to your inquiry regarding the originally reported results, the samples were re-extracted and re-analyzed in duplicate outside the method holding time. The re-analysis results have been added as a comment to the revised report.

The revised analytical report reflects this correction and is enclosed.

You are a valued client and we apologize for any inconvenience that this incident may have caused. If you have any questions or require further assistance, please call me at 717-656-2300, Ext. 1934. We appreciate your business and look forward to continuing to serve your laboratory needs.

Sincerely,



Tracy A. Cole
Senior Specialist
EPH/Miscellaneous GC

TAC/mc
Enclosures

cc: Jill Parker



REVISED

Sample Description: MW-1 NA Groundwater
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960207
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 10:56 by LB

Chevron

L4310

Submitted: 02/21/2013 09:10

6001 Bollinger Canyon Road

Reported: 04/03/2013 15:08

San Ramon CA 94583

36BM1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles					
	SW-846 8260B		ug/l	ug/l	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethanol	64-17-5	N.D.	50	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles					
	ECY 97-602 NWTPH-Gx		ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons					
	ECY 97-602 NWTPH-Dx modified		ug/l	ug/l	
08271	Diesel Range Organics C12-C24	n.a.	200	28	1
08271	Heavy Range Organics C24-C40	n.a.	210	66	1
Wet Chemistry					
	EPA 300.0		ug/l	ug/l	
00368	Nitrate Nitrogen	14797-55-8	N.D.	250	5
00228	Sulfate	14808-79-8	N.D.	1,500	5
SM 2320 B-1997					
12150	Total Alkalinity	n.a.	408,000 ug/l as CaCO3	700 ug/l as CaCO3	1
SM 3500-Fe B modified-1997					
08344	Ferrous Iron	n.a.	5,600 ug/l	200 ug/l	20

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	F130583AA	02/28/2013 02:25	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F130583AA	02/28/2013 02:25	Brett W Kenyon	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13056A20A	02/26/2013 09:38	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13056A20A	02/26/2013 09:38	Catherine J Schwarz	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	130560022A	03/01/2013 14:50	Christine E Dolman	1



Lancaster
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Analysis Report

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REVISED

Sample Description: MW-1 NA Groundwater
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960207
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 10:56 by LB

Chevron

L4310

Submitted: 02/21/2013 09:10

6001 Bollinger Canyon Road

Reported: 04/03/2013 15:08

San Ramon CA 94583

36BM1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	130560022A	02/26/2013 10:15	Elizabeth A Sholder	1
00368	Nitrate Nitrogen	EPA 300.0	1	13052987602A	02/21/2013 21:54	Clinton M Wilson	5
00228	Sulfate	EPA 300.0	1	13052987602A	02/21/2013 21:54	Clinton M Wilson	5
12150	Total Alkalinity	SM 2320 B-1997	1	13053019103A	02/22/2013 08:50	Clayton C Litchmore	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	13056834401A	02/25/2013 19:35	Daniel S Smith	20

Sample Description: MW-2 NA Groundwater
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960208
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 12:07 by LB

Submitted: 02/21/2013 09:10

Reported: 04/03/2013 15:08

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

36BM2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles					
		SW-846 8260B	ug/l	ug/l	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethanol	64-17-5	N.D.	50	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles					
		ECY 97-602 NWTPH-Gx	ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons					
		ECY 97-602 NWTPH-Dx modified	ug/l	ug/l	
08271	Diesel Range Organics C12-C24	n.a.	N.D.	28	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	66	1
Wet Chemistry					
		EPA 300.0	ug/l	ug/l	
00368	Nitrate Nitrogen	14797-55-8	N.D.	250	5
00228	Sulfate	14808-79-8	14,600	1,500	5
SM 2320 B-1997					
12150	Total Alkalinity	n.a.	259,000	700	1
SM 3500-Fe B modified-1997					
08344	Ferrous Iron	n.a.	150	10	1

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	D130591AA	02/28/2013 12:55	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D130591AA	02/28/2013 12:55	Daniel H Heller	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13053A07A	02/26/2013 16:05	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	13053A07A	02/26/2013 16:05	Marie D John	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	130560022A	03/01/2013 13:19	Christine E Dolman	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	130560022A	02/26/2013 10:15	Elizabeth A Sholder	1



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Analysis Report

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REVISED

Sample Description: MW-2 NA Groundwater
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960208
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 12:07 by LB

Chevron

L4310

Submitted: 02/21/2013 09:10

6001 Bollinger Canyon Road

Reported: 04/03/2013 15:08

San Ramon CA 94583

36BM2

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	13052987602A	02/21/2013 23:10	Clinton M Wilson	5
00228	Sulfate	EPA 300.0	1	13052987602A	02/21/2013 23:10	Clinton M Wilson	5
12150	Total Alkalinity	SM 2320 B-1997	1	13053019104A	02/22/2013 09:17	Clayton C Litchmore	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	13056834401A	02/25/2013 19:35	Daniel S Smith	1

Sample Description: MW-3 NA Groundwater
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960209
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 09:24 by LB

Chevron

L4310

Submitted: 02/21/2013 09:10

6001 Bollinger Canyon Road

Reported: 04/03/2013 15:08

San Ramon CA 94583

36BM3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles					
		SW-846 8260B	ug/l	ug/l	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethanol	64-17-5	N.D.	50	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles					
		ECY 97-602 NWTPH-Gx	ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons					
		ECY 97-602 NWTPH-Dx modified	ug/l	ug/l	
08271	Diesel Range Organics C12-C24	n.a.	68	28	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	66	1
Wet Chemistry					
		EPA 300.0	ug/l	ug/l	
00368	Nitrate Nitrogen	14797-55-8	N.D.	250	5
00228	Sulfate	14808-79-8	6,500	1,500	5
SM 2320 B-1997					
12150	Total Alkalinity	n.a.	425,000	700	1
SM 3500-Fe B modified-1997					
08344	Ferrous Iron	n.a.	1,900	50	5

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	D130591AA	02/28/2013 14:02	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D130591AA	02/28/2013 14:02	Daniel H Heller	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13053A07A	02/26/2013 16:31	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	13053A07A	02/26/2013 16:31	Marie D John	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	130560022A	03/01/2013 13:42	Christine E Dolman	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	130560022A	02/26/2013 10:15	Elizabeth A Sholder	1



Lancaster
Laboratories

Analysis Report

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REVISED

Sample Description: MW-3 NA Groundwater
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960209
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 09:24 by LB

Chevron

L4310

Submitted: 02/21/2013 09:10

6001 Bollinger Canyon Road

Reported: 04/03/2013 15:08

San Ramon CA 94583

36BM3

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	13052987602A	02/21/2013 23:25	Clinton M Wilson	5
00228	Sulfate	EPA 300.0	1	13052987602A	02/21/2013 23:25	Clinton M Wilson	5
12150	Total Alkalinity	SM 2320 B-1997	1	13053019104A	02/22/2013 09:35	Clayton C Litchmore	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	13056834401A	02/25/2013 19:35	Daniel S Smith	5



REVISED

Sample Description: MW-4 NA Groundwater
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960210
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 12:47 by LB

Chevron

L4310

Submitted: 02/21/2013 09:10

6001 Bollinger Canyon Road

Reported: 04/03/2013 15:08

San Ramon CA 94583

36BM4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles					
		SW-846 8260B	ug/l	ug/l	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethanol	64-17-5	N.D.	50	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles					
		ECY 97-602 NWTPH-Gx	ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons					
		ECY 97-602 NWTPH-Dx modified	ug/l	ug/l	
08271	Diesel Range Organics C12-C24	n.a.	N.D.	29	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	67	1
Wet Chemistry					
		EPA 300.0	ug/l	ug/l	
00368	Nitrate Nitrogen	14797-55-8	N.D.	250	5
00228	Sulfate	14808-79-8	10,800	1,500	5
SM 2320 B-1997					
12150	Total Alkalinity	n.a.	226,000 ug/l as CaCO3	700 ug/l as CaCO3	1
SM 3500-Fe B modified-1997					
08344	Ferrous Iron	n.a.	120 ug/l	10 ug/l	1

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	D130591AA	02/28/2013 14:24	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D130591AA	02/28/2013 14:24	Daniel H Heller	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13053A07A	02/26/2013 16:56	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	13053A07A	02/26/2013 16:56	Marie D John	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	130560022A	03/01/2013 14:05	Christine E Dolman	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	130560022A	02/26/2013 10:15	Elizabeth A Sholder	1



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Analysis Report

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REVISED

Sample Description: MW-4 NA Groundwater
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960210
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 12:47 by LB

Chevron

L4310

Submitted: 02/21/2013 09:10

6001 Bollinger Canyon Road

Reported: 04/03/2013 15:08

San Ramon CA 94583

36BM4

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	13052987602A	02/21/2013 23:40	Clinton M Wilson	5
00228	Sulfate	EPA 300.0	1	13052987602A	02/21/2013 23:40	Clinton M Wilson	5
12150	Total Alkalinity	SM 2320 B-1997	1	13053019104A	02/22/2013 09:40	Clayton C Litchmore	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	13056834401A	02/25/2013 19:35	Daniel S Smith	1



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Analysis Report

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REVISED

Sample Description: MW-5 NA Groundwater
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960211
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 10:09 by LB

Chevron

L4310

Submitted: 02/21/2013 09:10

6001 Bollinger Canyon Road

Reported: 04/03/2013 15:08

San Ramon CA 94583

36BM5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles					
	SW-846 8260B		ug/l	ug/l	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethanol	64-17-5	N.D.	50	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles					
	ECY 97-602 NWTPH-Gx		ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons					
	ECY 97-602 NWTPH-Dx modified		ug/l	ug/l	
08271	Diesel Range Organics C12-C24	n.a.	160	28	1
08271	Heavy Range Organics C24-C40	n.a.	180	66	1
Wet Chemistry					
	EPA 300.0		ug/l	ug/l	
00368	Nitrate Nitrogen	14797-55-8	N.D.	250	5
00228	Sulfate	14808-79-8	2,500	1,500	5
Total Alkalinity					
	SM 2320 B-1997		ug/l as CaCO3	ug/l as CaCO3	
12150	Total Alkalinity	n.a.	461,000	700	1
Ferrous Iron					
	SM 3500-Fe B modified-1997		ug/l	ug/l	
08344	Ferrous Iron	n.a.	4,600	100	10

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	D130591AA	02/28/2013 14:46	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D130591AA	02/28/2013 14:46	Daniel H Heller	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13053A07A	02/26/2013 17:21	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	13053A07A	02/26/2013 17:21	Marie D John	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	130560022A	03/01/2013 15:12	Christine E Dolman	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	130560022A	02/26/2013 10:15	Elizabeth A Sholder	1



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Analysis Report

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REVISED

Sample Description: MW-5 NA Groundwater
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960211
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 10:09 by LB

Chevron

L4310

Submitted: 02/21/2013 09:10

6001 Bollinger Canyon Road

Reported: 04/03/2013 15:08

San Ramon CA 94583

36BM5

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	13052987602A	02/21/2013 23:55	Clinton M Wilson	5
00228	Sulfate	EPA 300.0	1	13052987602A	02/21/2013 23:55	Clinton M Wilson	5
12150	Total Alkalinity	SM 2320 B-1997	1	13053019104A	02/22/2013 09:46	Clayton C Litchmore	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	13056834401A	02/25/2013 19:35	Daniel S Smith	10

Sample Description: MW-6 NA Groundwater
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960212
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 08:41 by LB

Chevron

L4310

Submitted: 02/21/2013 09:10

6001 Bollinger Canyon Road

Reported: 04/03/2013 15:08

San Ramon CA 94583

36BM6

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles					
		SW-846 8260B	ug/l	ug/l	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethanol	64-17-5	N.D.	50	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles					
		ECY 97-602 NWTPH-Gx	ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons					
		ECY 97-602 NWTPH-Dx modified	ug/l	ug/l	
08271	Diesel Range Organics C12-C24	n.a.	46	28	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	66	1
Wet Chemistry					
		EPA 300.0	ug/l	ug/l	
00368	Nitrate Nitrogen	14797-55-8	N.D.	250	5
00228	Sulfate	14808-79-8	2,700	1,500	5
SM 2320 B-1997					
12150	Total Alkalinity	n.a.	337,000	700	1
SM 3500-Fe B modified-1997					
08344	Ferrous Iron	n.a.	3,000	50	5

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	D130591AA	02/28/2013 15:08	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D130591AA	02/28/2013 15:08	Daniel H Heller	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13053A07A	02/26/2013 17:47	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	13053A07A	02/26/2013 17:47	Marie D John	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	130560022A	03/01/2013 14:27	Christine E Dolman	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	130560022A	02/26/2013 10:15	Elizabeth A Sholder	1



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Analysis Report

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Sample Description: MW-6 NA Groundwater
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960212
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 08:41 by LB

Chevron

L4310

Submitted: 02/21/2013 09:10

6001 Bollinger Canyon Road

Reported: 04/03/2013 15:08

San Ramon CA 94583

36BM6

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	13052987602A	02/22/2013 00:10	Clinton M Wilson	5
00228	Sulfate	EPA 300.0	1	13052987602A	02/22/2013 00:10	Clinton M Wilson	5
12150	Total Alkalinity	SM 2320 B-1997	1	13053019104A	02/22/2013 09:52	Clayton C Litchmore	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	13056834401A	02/25/2013 19:35	Daniel S Smith	5



REVISED

Sample Description: MW-7 NA Groundwater
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960213
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 13:21 by LB

Chevron

L4310

Submitted: 02/21/2013 09:10

6001 Bollinger Canyon Road

Reported: 04/03/2013 15:08

San Ramon CA 94583

36BM7

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles					
	SW-846 8260B		ug/l	ug/l	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethanol	64-17-5	N.D.	50	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles					
	ECY 97-602 NWTPH-Gx		ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	98	50	1
GC Petroleum Hydrocarbons					
	ECY 97-602 NWTPH-Dx modified		ug/l	ug/l	
08271	Diesel Range Organics C12-C24	n.a.	N.D.	29	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	67	1
Due to client inquiry regarding the reported result the sample was re-extracted in duplicate outside the method holding time.					
The re-extracted results are as follows:					
DRO 610 ug/l (the pattern is similar to what was seen for 6960214 on the original prep), HRO <140 ug/l					
DUP: DRO 620 ug/l the pattern is similar to what was seen for 6960214 on the original prep), HRO <140 ug/l					
Wet Chemistry					
	EPA 300.0		ug/l	ug/l	
00368	Nitrate Nitrogen	14797-55-8	N.D.	250	5
00228	Sulfate	14808-79-8	4,000	1,500	5
SM 2320 B-1997					
12150	Total Alkalinity	n.a.	315,000	700	1
SM 3500-Fe B modified-1997					
08344	Ferrous Iron	n.a.	19,500	500	50

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	D130591AA	02/28/2013 15:31	Daniel H Heller	1



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Analysis Report

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REVISED

Sample Description: MW-7 NA Groundwater
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960213
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 13:21 by LB

Chevron

L4310

Submitted: 02/21/2013 09:10

6001 Bollinger Canyon Road

Reported: 04/03/2013 15:08

San Ramon CA 94583

36BM7

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D130591AA	02/28/2013 15:31	Daniel H Heller	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13053A07A	02/26/2013 18:12	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	13053A07A	02/26/2013 18:12	Marie D John	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	130560022A	03/01/2013 15:35	Christine E Dolman	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	130560022A	02/26/2013 10:15	Elizabeth A Sholder	1
00368	Nitrate Nitrogen	EPA 300.0	1	13052987602A	02/22/2013 00:25	Clinton M Wilson	5
00228	Sulfate	EPA 300.0	1	13052987602A	02/22/2013 00:25	Clinton M Wilson	5
12150	Total Alkalinity	SM 2320 B-1997	1	13053019104A	02/22/2013 09:57	Clayton C Litchmore	1
08344	Ferrous Iron	SM 3500-Fe B modified 1997	1	13056834401A	02/25/2013 19:35	Daniel S Smith	50



REVISED

Sample Description: MW-8 NA Groundwater
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960214
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 11:34 by LB

Submitted: 02/21/2013 09:10
Reported: 04/03/2013 15:08

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

36BM8

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles					
	SW-846 8260B		ug/l	ug/l	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethanol	64-17-5	N.D.	50	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles					
	ECY 97-602 NWTPH-Gx		ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons					
	ECY 97-602 NWTPH-Dx modified		ug/l	ug/l	
08271	Diesel Range Organics C12-C24	n.a.	820	29	1
08271	Heavy Range Organics C24-C40	n.a.	180	67	1
Due to client inquiry regarding the reported result the sample was re-extracted in duplicate outside the method holding time.					
The re-extracted results are as follows:					
DRO <60 ug/l, HRO<140 ug/l					
DUP: DRO <60 ug/l , HRO<140 ug/l					
Wet Chemistry					
	EPA 300.0		ug/l	ug/l	
00368	Nitrate Nitrogen	14797-55-8	N.D.	250	5
00228	Sulfate	14808-79-8	5,900	1,500	5
	SM 2320 B-1997		ug/l as CaCO3	ug/l as CaCO3	
12150	Total Alkalinity	n.a.	445,000	700	1
	SM 3500-Fe B modified-1997		ug/l	ug/l	
08344	Ferrous Iron	n.a.	1,100	50	5

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	D130591AA	02/28/2013 15:53	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D130591AA	02/28/2013 15:53	Daniel H Heller	1



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Analysis Report

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REVISED

Sample Description: MW-8 NA Groundwater
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960214
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 11:34 by LB

Chevron

L4310

Submitted: 02/21/2013 09:10

6001 Bollinger Canyon Road

Reported: 04/03/2013 15:08

San Ramon CA 94583

36BM8

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13053A07A	02/26/2013 18:37	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	13053A07A	02/26/2013 18:37	Marie D John	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	130560022A	03/01/2013 15:57	Christine E Dolman	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	130560022A	02/26/2013 10:15	Elizabeth A Sholder	1
00368	Nitrate Nitrogen	EPA 300.0	1	13052987602A	02/22/2013 00:41	Clinton M Wilson	5
00228	Sulfate	EPA 300.0	1	13052987602A	02/22/2013 00:41	Clinton M Wilson	5
12150	Total Alkalinity	SM 2320 B-1997	1	13053019104A	02/22/2013 10:11	Clayton C Litchmore	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	13056834401A	02/25/2013 19:35	Daniel S Smith	5

REVISED

Sample Description: QA NA Water
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6960215
LLI Group # 1370425
Account # 11255

Project Name: 351448

Collected: 02/20/2013 08:00

Chevron

Submitted: 02/21/2013 09:10

L4310

Reported: 04/03/2013 15:08

6001 Bollinger Canyon Road
San Ramon CA 94583

36BQA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles					
		SW-846 8260B	ug/l	ug/l	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethanol	64-17-5	N.D.	50	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles					
		ECY 97-602 NWTPH-Gx	ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	D130591AA	02/28/2013 16:15	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D130591AA	02/28/2013 16:15	Daniel H Heller	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	13053A07A	02/26/2013 11:00	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	13053A07A	02/26/2013 11:00	Marie D John	1

Quality Control Summary

Client Name: Chevron

Group Number: 1370425

Reported: 04/03/13 at 03:08 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: D130591AA	Sample number(s): 6960208-6960215							
Benzene	N.D.	0.5	ug/l	102		77-121		
Ethanol	N.D.	50.	ug/l	93		54-149		
Ethylbenzene	N.D.	0.5	ug/l	105		79-120		
Toluene	N.D.	0.5	ug/l	105		79-120		
Xylene (Total)	N.D.	0.5	ug/l	108		77-120		
Batch number: F130583AA	Sample number(s): 6960207							
Benzene	N.D.	0.5	ug/l	92		77-121		
Ethanol	N.D.	50.	ug/l	84		54-149		
Ethylbenzene	N.D.	0.5	ug/l	95		79-120		
Toluene	N.D.	0.5	ug/l	95		79-120		
Xylene (Total)	N.D.	0.5	ug/l	97		77-120		
Batch number: 13053A07A	Sample number(s): 6960208-6960215							
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	88	88	75-135	1	30
Batch number: 13056A20A	Sample number(s): 6960207							
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	93	90	75-135	3	30
Batch number: 130560022A	Sample number(s): 6960207-6960214							
Diesel Range Organics C12-C24	N.D.	30.	ug/l	69	67	50-113	2	20
Heavy Range Organics C24-C40	N.D.	70.	ug/l					
Batch number: 13052987602A	Sample number(s): 6960207-6960214							
Nitrate Nitrogen	N.D.	50.	ug/l	101		90-110		
Sulfate	N.D.	300.	ug/l	99		90-110		
Batch number: 13053019103A	Sample number(s): 6960207							
Total Alkalinity	840	700.	ug/l as CaCO3	101		90-110		
Batch number: 13053019104A	Sample number(s): 6960208-6960214							
Total Alkalinity	720	700.	ug/l as CaCO3	102		90-110		
Batch number: 13056834401A	Sample number(s): 6960207-6960214							
Ferrous Iron	N.D.	10.	ug/l	97		93-105		

Sample Matrix Quality Control

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron Group Number: 1370425
 Reported: 04/03/13 at 03:08 PM
 Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: D130591AA	Sample number(s): 6960208-6960215 UNSPK: 6960208								
Benzene	110	98	72-134	11	30				
Ethanol	109	91	53-146	18	30				
Ethylbenzene	115	99	71-134	15	30				
Toluene	116	102	80-125	13	30				
Xylene (Total)	118	102	79-125	14	30				
Batch number: F130583AA	Sample number(s): 6960207 UNSPK: P964816								
Benzene	98	97	72-134	1	30				
Ethanol	85	93	53-146	9	30				
Ethylbenzene	101	103	71-134	2	30				
Toluene	99	100	80-125	1	30				
Xylene (Total)	99	106	79-125	5	30				
Batch number: 13052987602A	Sample number(s): 6960207-6960214 UNSPK: 6960207 BKG: 6960207								
Nitrate Nitrogen	102		90-110			N.D.	N.D.	0 (1)	20
Sulfate	102		90-110			N.D.	N.D.	0 (1)	20
Batch number: 13053019103A	Sample number(s): 6960207 UNSPK: P959931 BKG: P959931								
Total Alkalinity	92		73-121			564,000	566,000	0	5
Batch number: 13053019104A	Sample number(s): 6960208-6960214 UNSPK: 6960208 BKG: 6960208								
Total Alkalinity	94		73-121			259,000	258,000	0	5
Batch number: 13056834401A	Sample number(s): 6960207-6960214 UNSPK: P962954 BKG: P962954								
Ferrous Iron	98	95	81-112	1	6	7,300	7,200	2 (1)	5

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: UST VOCs by 8260B - Water
 Batch number: D130591AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6960208	99	96	100	99
6960209	100	96	99	98
6960210	100	95	99	98
6960211	101	98	100	99
6960212	101	98	99	98
6960213	99	98	100	100
6960214	100	97	100	98
6960215	100	96	100	99
Blank	99	97	99	98
LCS	100	100	100	100
MS	99	101	100	99
MSD	100	102	100	100

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

 Client Name: Chevron
 Reported: 04/03/13 at 03:08 PM

Group Number: 1370425

Surrogate Quality Control

Limits: 80-116 77-113

80-113 78-113

Analysis Name: UST VOCs by 8260B - Water

Batch number: F130583AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6960207	97	98	101	100
Blank	97	98	101	98
LCS	96	100	100	101
MS	96	101	102	103
MSD	95	101	102	101

Limits: 80-116 77-113

80-113 78-113

Analysis Name: NWTPH-Gx water C7-C12

Batch number: 13053A07A

Trifluorotoluene-F

6960208	85
6960209	88
6960210	88
6960211	88
6960212	84
6960213	85
6960214	85
6960215	85
Blank	85
LCS	96
LCSD	95

Limits: 63-135

Analysis Name: NWTPH-Gx water C7-C12

Batch number: 13056A20A

Trifluorotoluene-F

6960207	89
Blank	73
LCS	100
LCSD	98

Limits: 63-135

Analysis Name: NWTPH-Dx water

Batch number: 130560022A

Orthoterphenyl

6960207	108
6960208	98
6960209	97
6960210	101
6960211	111
6960212	108
6960213	103
6960214	92
Blank	99

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control SummaryClient Name: Chevron
Reported: 04/03/13 at 03:08 PM

Group Number: 1370425


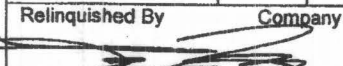
Surrogate Quality ControlLCS 100
LCSD 97Limits: 50-150

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

CHAIN OF CUSTODY FORM

Chevron Environmental Management Company ■ 6001 Bollinger Canyon Road ■ San Ramon, CA 94583-2324 COC 1 of 1

Chevron Site Number: <u>35-1448</u>				Chevron Consultant: <u>SAIC</u>				ANALYSES REQUIRED													
Program Designation: <u>CMP</u>				Address: <u>405 S 8th St. Suite 301, Boise ID</u>																	
Site Address (street, city, state / county): <u>200 S 36th St, Bellingham, WA</u>				Consultant Contact: <u>Ron Santos</u>																	
Chevron PM:				Consultant Phone No. <u>(208) 429-3772</u>																	
Chevron PM Phone No.:				Consultant Project No. <u>130220-LB1</u>																	
<input type="checkbox"/> Retail and Terminal Business Unit (RTBU) Job				Sampling Company: <u>Blaine Tech Services</u>																	
<input type="checkbox"/> Construction/Retail Job				Sampled By (Print): <u>LEE BULLIS</u>																	
Charge Code: <u>NWRTB 00SITE NUMBER-0-OML</u>				Sampler Signature: 																	
WBS ELEMENTS: SITE ASSESSMENT: A1L REMEDIATION IMPLEMENTATION: R5L SITE MONITORING: OML OPERATION MAINTENANCE & MONITORING: M1L				Lancaster Laboratories <input checked="" type="checkbox"/> Lancaster, PA Lab Contact: Megan Moeller 2425 New Holland Pike, Lancaster, PA 17601 Phone No: (717)656-2300				Other Lab		Temp. Blank Check Time		Temp.									
SAMPLE ID																					
Field Point Name	Matrix	Top Depth	Date (yyymmdd)	Sample Time	# of Containers	Container Type	TPH-DRO w/ SILICA GEL CLEANUP (97-602M) (NWTPH-Dx w/ sgc)	TPH-ORO w/ SILICA GEL CLEANUP (97-602M) (NWTPH-Dx w/ sgc)	TPH-HRO w/ SILICA GEL CLEANUP (97-602M) (NWTPH-Dx w/ sgc)	8260B FULL LISTO ETHANOL% BTEX% MTBEO	EDCO TBAD TAMED EDBO	PAH'S □ CPAH'S □ 8270 SIM	TPH-G (NWTPH-Gx)	TOTAL LEAD (6020)	DISSOLVED LEAD (6020)	TPH-D AND TPH-O BY (NWTPH-DX)	ALKALINITY	NETRANE SULFATE	Notes/Comments		
MW-1	GW	—	130220	1056	13	VOA, AMBER, PLV				X		X	X			X	X	X			
MW-2	GW	—	130220	1207	↓	↓				X		X	X			X	X	X			
MW-3	GW	—	130220	0924							X		X	X			X	X	X		
MW-4	GW	—	130220	1247							X		X	X			X	X	X		
MW-5	GW	—	130220	1009							X		X	X			X	X	X		
MW-6	GW	—	130220	0841							X		X	X			X	X	X		
MW-7	GW	—	130220	1321							X		X	X			X	X	X		
MW-8	GW	—	130220	1134							X		X	X			X	X	X		
QA	GW	—	130220	0600			3	VOA				X		X							
Relinquished By  Company _____ Date/Time: <u>2/20/13</u>				Relinquished To <u>SHIPPED VIA FEDEX</u> Company _____ Date/Time _____				Turnaround Time: Standard <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 hours <input type="checkbox"/> 72 Hours <input type="checkbox"/> Other <input type="checkbox"/>													
Relinquished By _____ Company _____ Date/Time _____				Relinquished To _____ Company _____ Date/Time _____				Sample Integrity: (Check by lab on arrival)													
Relinquished By _____ Company _____ Date/Time _____				Relinquished To <u>Colby Miller LSI</u> Company _____ Date/Time <u>2/21/13 0910</u>				Intact: <input checked="" type="checkbox"/> On Ice: <input checked="" type="checkbox"/> Temp: <u>0.5-4.5 °C</u> COC # _____													

H=HCL T=Thiosulfate
N=HNO₃ B=NaOH
S=H₂SO₄ O=Other
Acct # 112 55
Grp # 13704 25
Sample #
6960207-215
Special Instructions

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter

<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.
>	greater than
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but \geq IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>$ 25%	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA $<$ 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

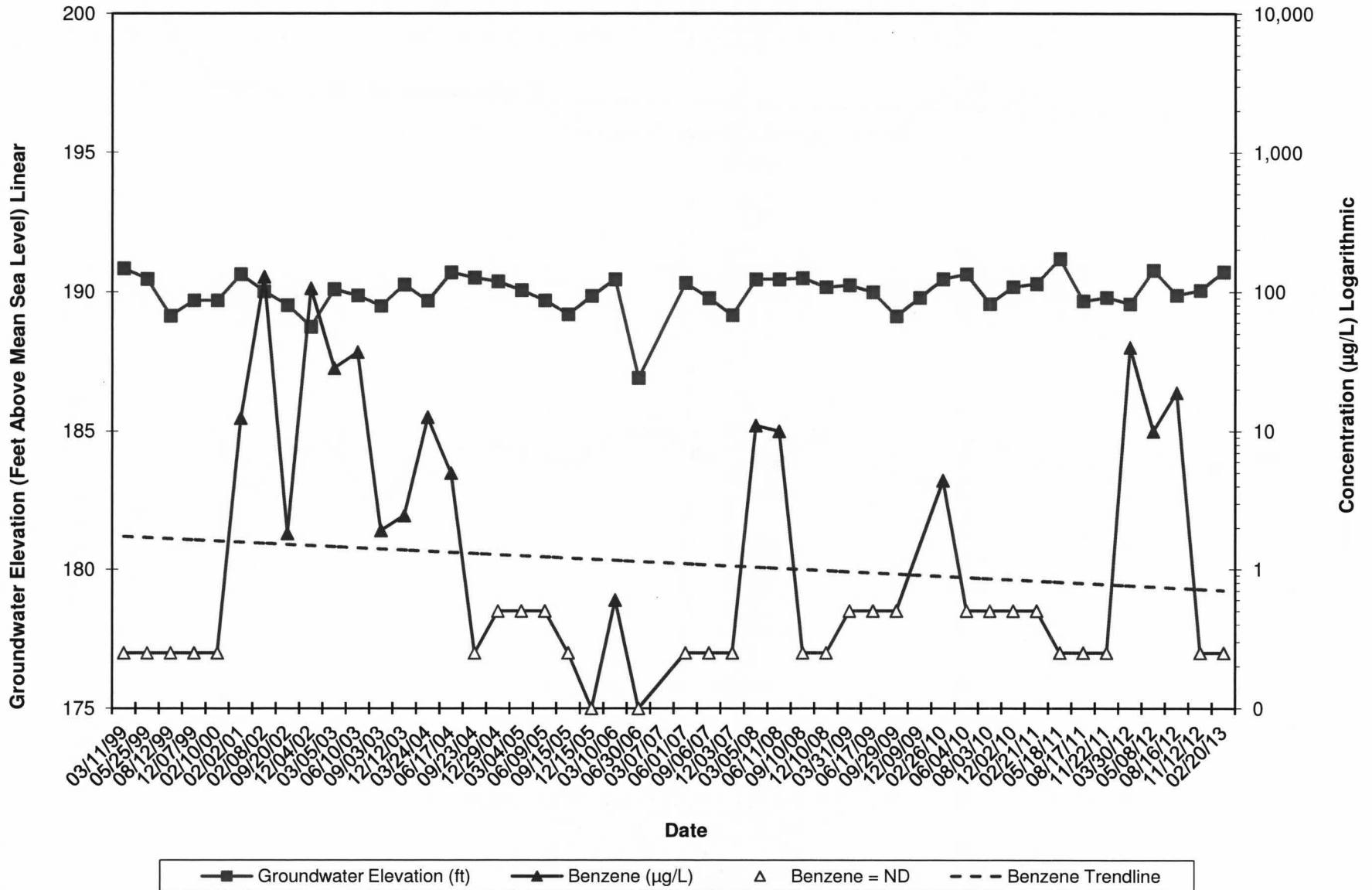
Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

**Well MW-1
Hydrograph - Benzene
76 Products Facility No. 351448
200 South 36th Street, Bellingham, Washington**



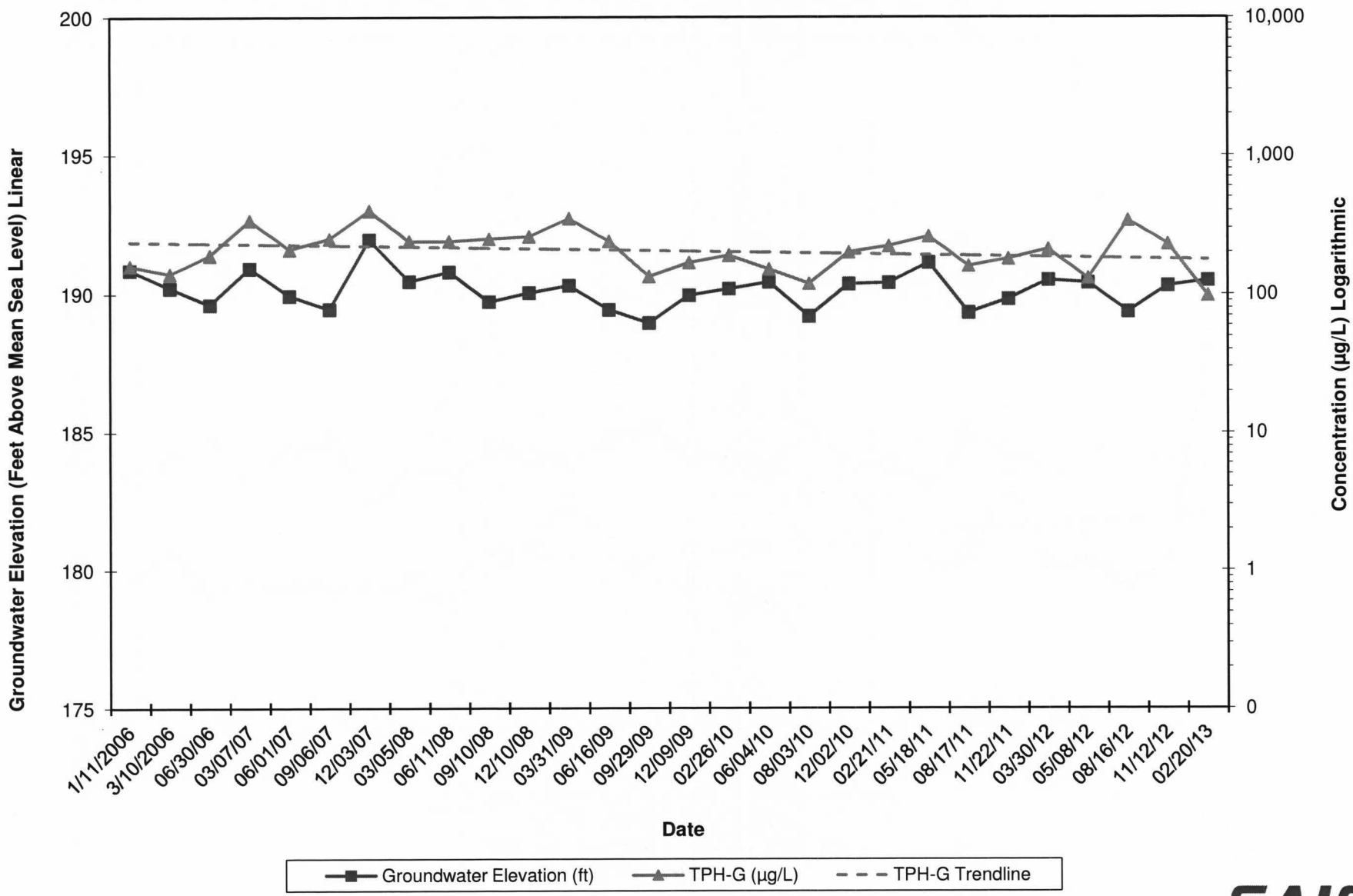
Well MW-7
Hydrograph - Benzene
76 Products Facility No. 351448
200 South 36th Street, Bellingham, Washington



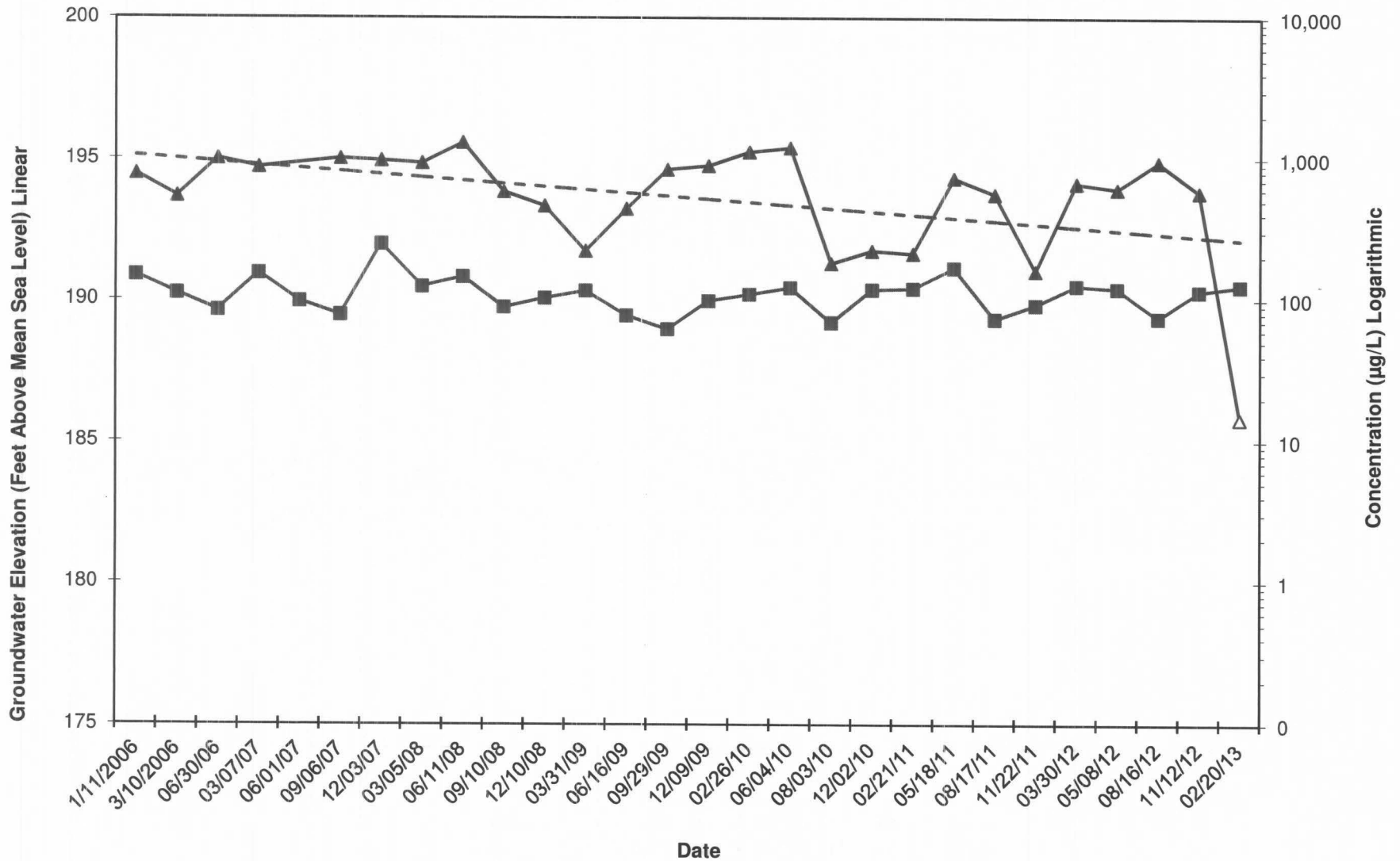
Groundwater Elevation (ft)
 Benzene (µg/L)
 Benzene = ND
 Benzene Trendline



Well MW-7
Hydrograph - Gasoline-Range Hydrocarbons
76 Products Facility No. 351448
200 South 36th Street, Bellingham, Washington



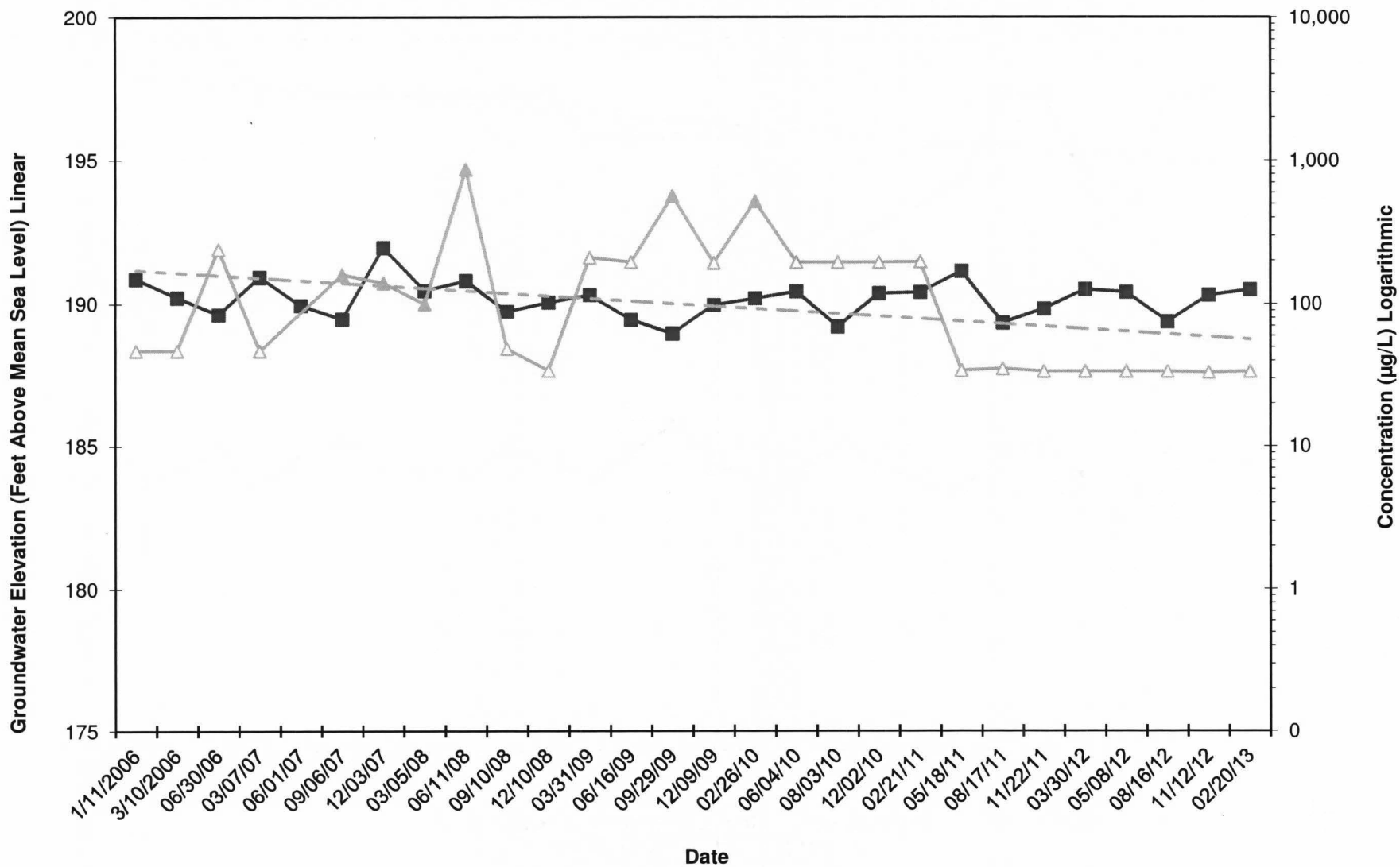
Well MW-7
Hydrograph - Diesel-Range Hydrocarbons
 76 Products Facility No. 351448
 200 South 36th Street, Bellingham, Washington



Groundwater Elevation (ft)
 TPH-D (µg/L)
 TPH-D = ND
 TPH-D Trendline



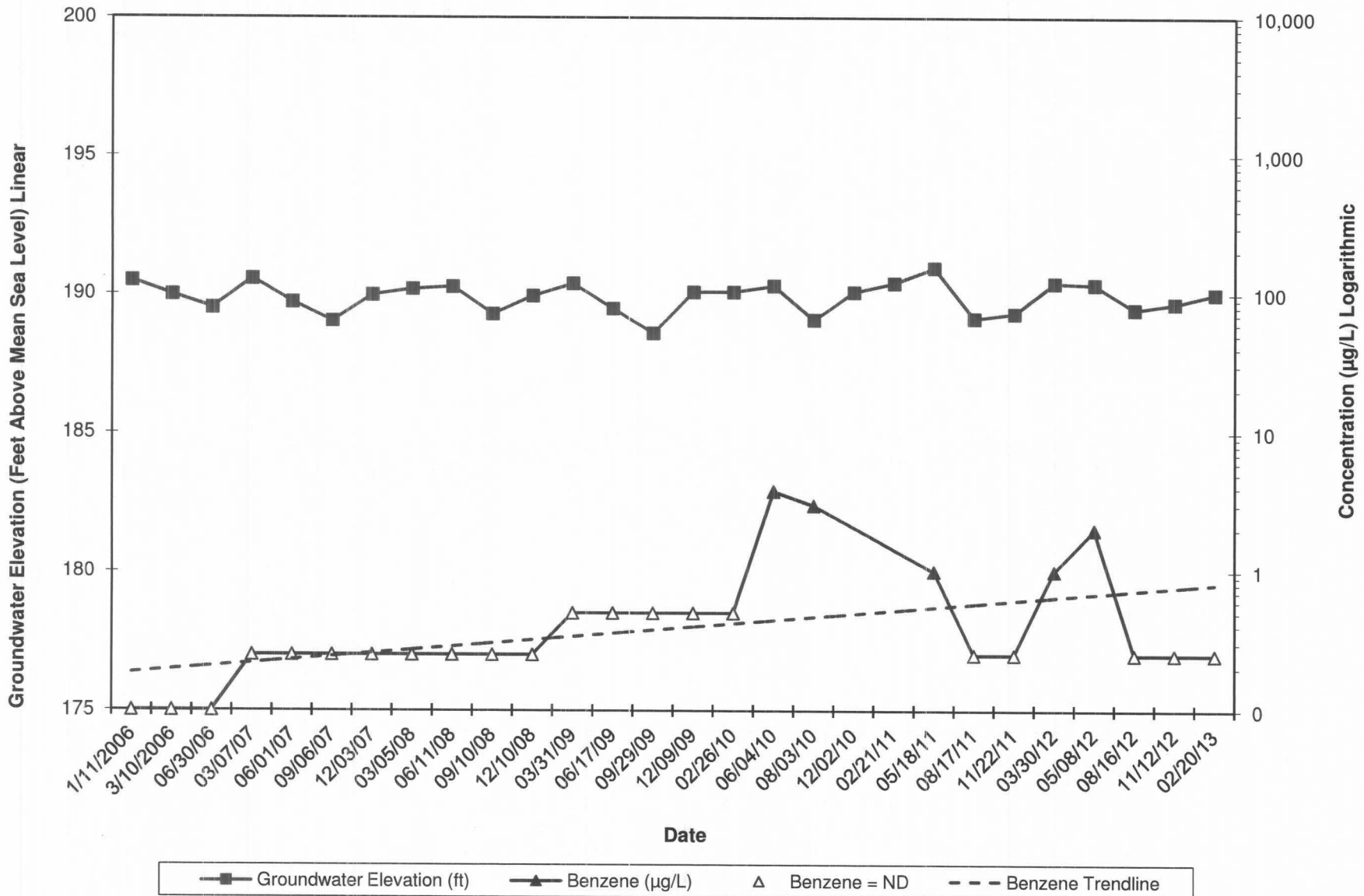
Well MW-7
Hydrograph - Heavy Oil-Range Hydrocarbons
76 Products Facility No. 351448
200 South 36th Street, Bellingham, Washington



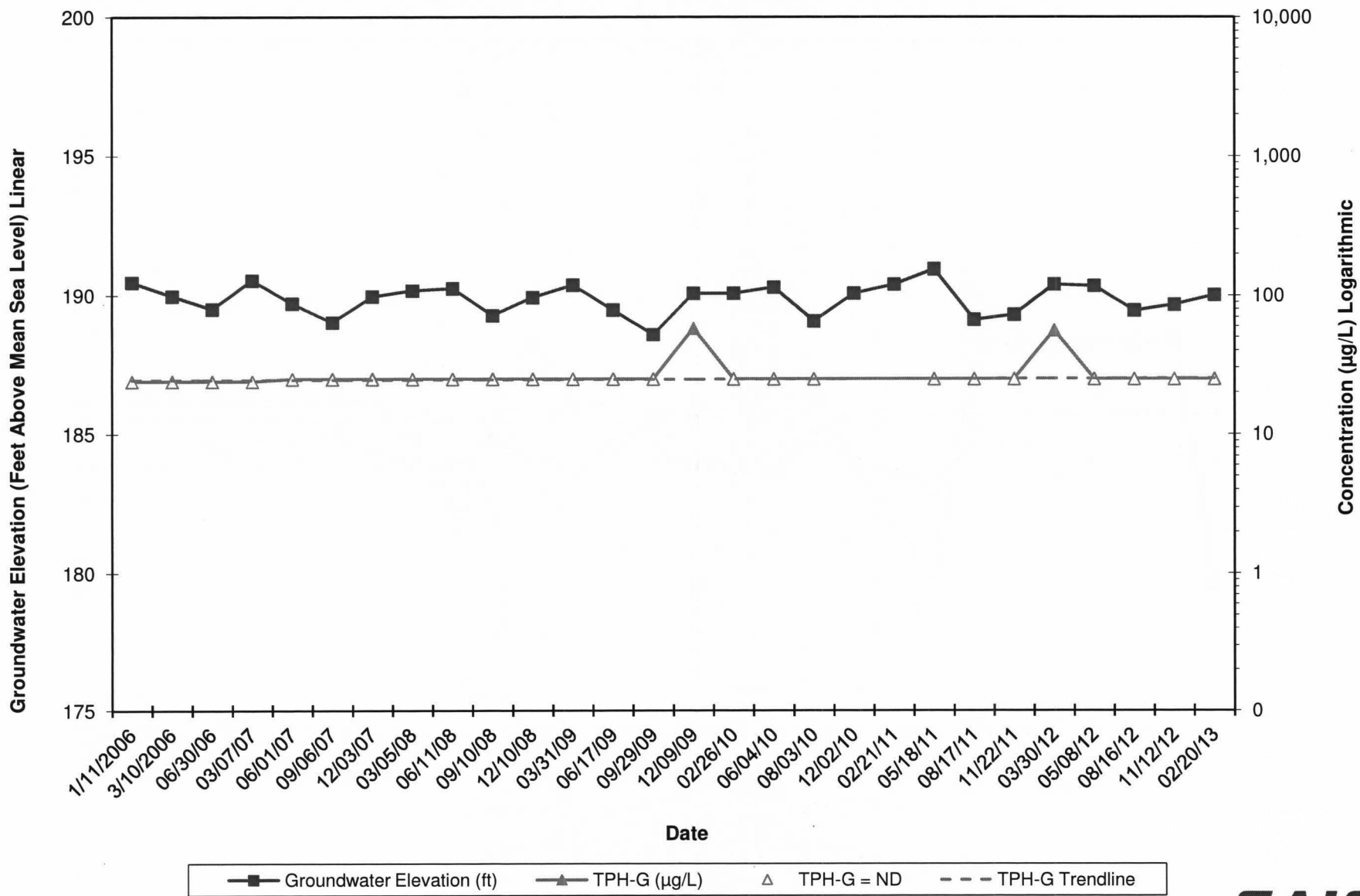
Groundwater Elevation (ft)
 TPH-O (µg/L)
 TPH-O = ND
 TPH-O Trendline



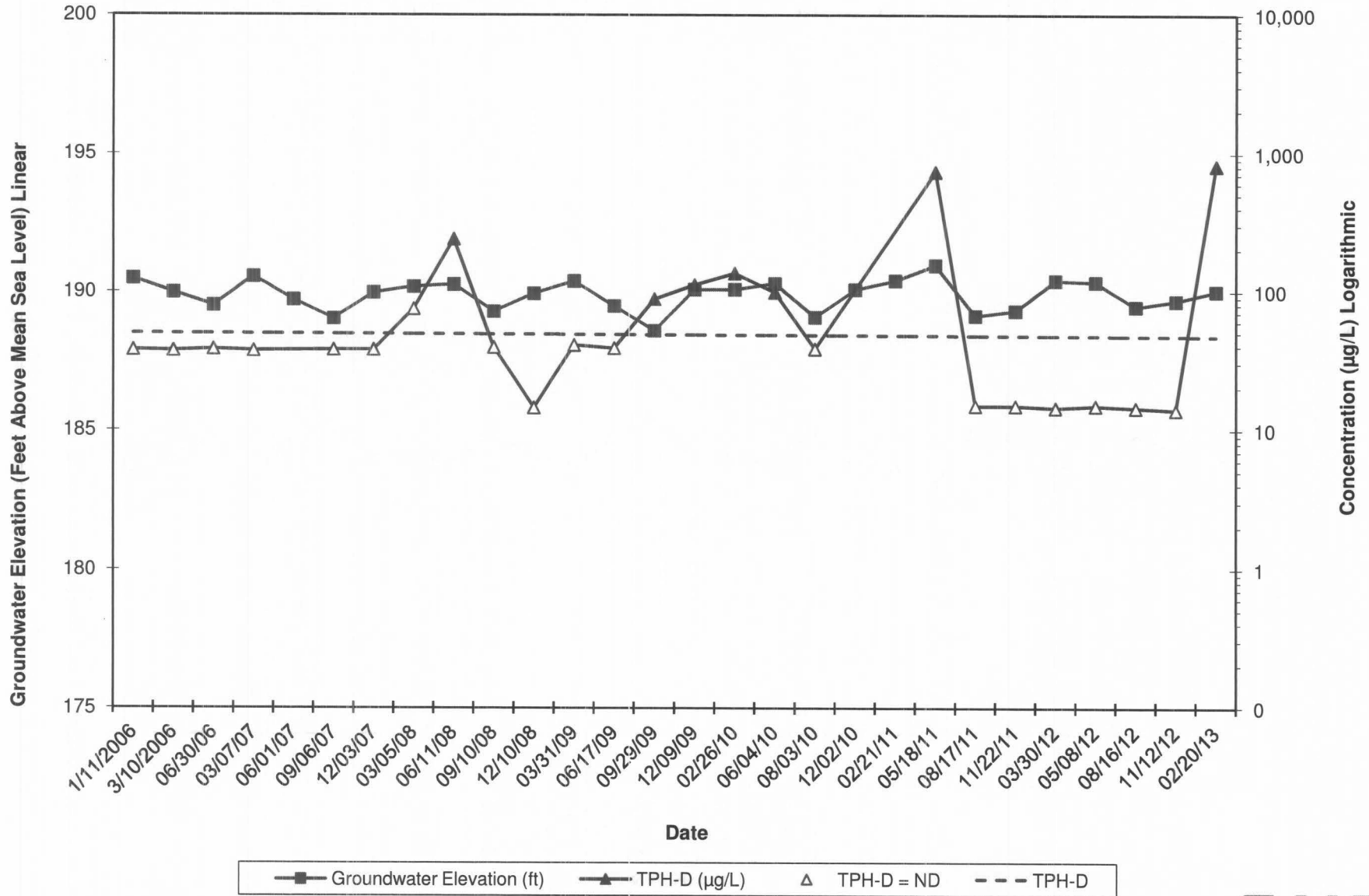
Well MW-8
Hydrograph - Benzene
76 Products Facility No. 351448
200 South 36th Street, Bellingham, Washington



Well MW-8
Hydrograph - Gasoline-Range Hydrocarbons
76 Products Facility No. 351448
200 South 36th Street, Bellingham, Washington



Well MW-8
Hydrograph - Diesel-Range Hydrocarbons
76 Products Facility No. 351448
200 South 36th Street, Bellingham, Washington



Well MW-8
Hydrograph - Heavy Oil-Range Hydrocarbons
76 Products Facility No. 351448
200 South 36th Street, Bellingham, Washington

