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March 5, 2013

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

Subject: **Fourth Quarter 2012 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 November 12, 2012. 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 189.67 (MW-2 and MW-8) to 190.96 (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.

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-7 and MW-8 are included as Attachment C.

RESULTS

The results of the fourth quarter 2012 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-7 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.

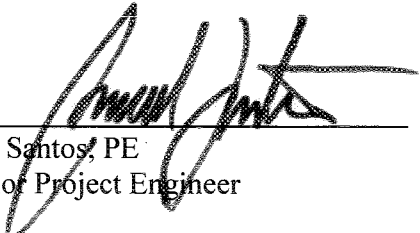
Monitored natural attenuation parameters have been included in the site monitoring scope to evaluate the bioremediation process. The plume geochemistry indicates biodegradation is occurring in the subsurface. For wells with hydrocarbons, nitrate is depleted, ferrous iron is elevated, and sulfate concentrations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

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

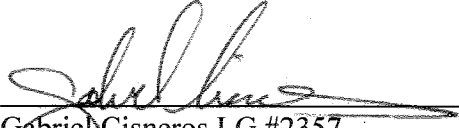
If you have any questions or comments, please contact me at (208) 429-3772 or via email at ronald.santos@saic.com.

Sincerely,

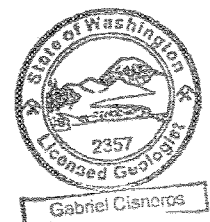
SAIC Energy, Environment & Infrastructure, LLC



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.

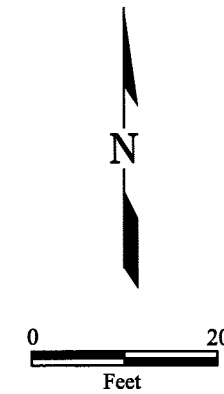
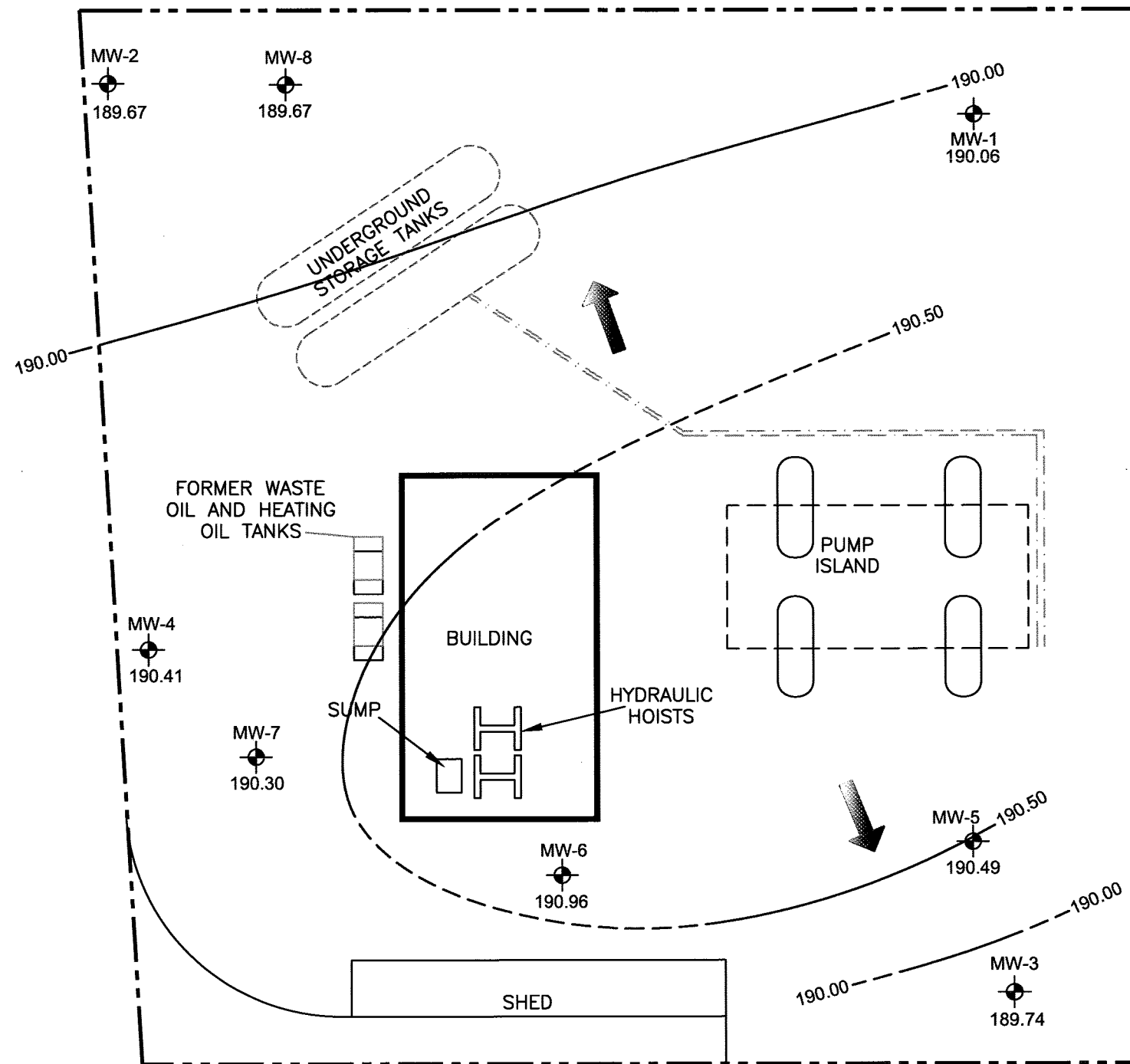
Site history and background information provided in this technical document are based on sources that may include interviews with environmental regulatory agencies and property management personnel and a review of acquired environmental regulatory agency documents and property information obtained from 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.

BILL McDONALD PARKWAY



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=0.04 FT/FT
 SOUTHERLY COMPONENT=0.01 FT/FT

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 1
Potentiometric Map
 November 12, 2012

MW-8	3/30/12	5/8/12	8/16/12	11/12/12
TPH-G	56	<50	<50	<50
TPH-D	<29	<30	<29	<28
TPH-O	<67	<70	<67	<66
B	1	2	<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	3/30/12	5/8/12	8/16/12	11/12/12
TPH-G	<50	<50	<50	<50
TPH-D	<28	<29	<29	<28
TPH-O	<66	<69	<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-4	3/30/12	5/8/12	8/16/12	11/12/12
TPH-G	<50	<50	<50	<50
TPH-D	<28	<29	<29	<28
TPH-O	<66	<68	<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-7	3/30/12	5/8/12	8/16/12	11/12/12
TPH-G	210	130	340	230
TPH-D	670	610	950	580
TPH-O	<67	<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

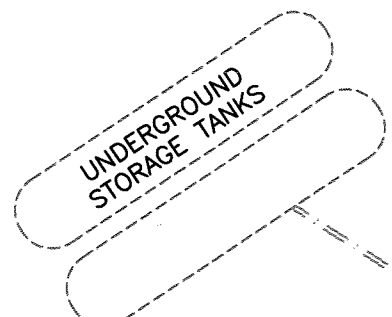
MW-6	3/30/12	5/8/12	8/16/12	11/12/12
TPH-G	<50	<50	<50	<50
TPH-D	<29	<30	<29	<29
TPH-O	<67	<69	<67	<67
B	<0.5	<0.5	<0.5	<0.5
T	<0.5	<0.5	<0.5	<0.5
E	<0.5	<0.5	<0.5	<0.5
X	<0.5	<0.5	<0.5	<0.5

MW-5	3/30/12	5/8/12	8/16/12	11/12/12
TPH-G	<50	<50	<50	<50
TPH-D	<29	<30	<28	30
TPH-O	<67	<70	<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

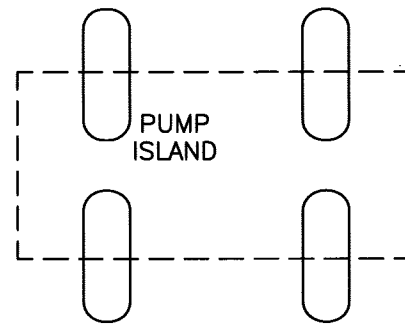
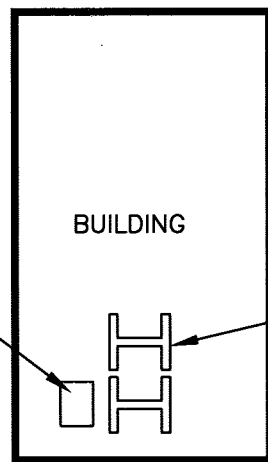
MW-3	3/30/12	5/8/12	8/16/12	11/12/12
TPH-G	<50	<50	<50	<50
TPH-D	34	<30	<28	<29
TPH-O	120	<70	<66	<67
B	<0.5	<0.5	<0.5	<0.5
T	<0.5	<0.5	<0.5	<0.5
E	<0.5	<0.5	<0.5	<0.5
X	<0.5	<0.5	<0.5	<0.5

MW-1	3/30/12	5/8/12	8/16/12	11/12/12
TPH-G	<50	<50	<50	<50
TPH-D	<29	<29	30	45
TPH-O	<67	<68	<66	<66
B	40	10	19	<0.5
T	2	0.9	0.7	<0.5
E	<0.5	<0.5	<0.5	<0.5
X	<0.5	<0.5	<0.5	<0.5

BILL McDONALD PARKWAY



FORMER WASTE OIL AND HEATING OIL TANKS



SUMP

HYDRAULIC HOISTS

SHED

SOUTH SAMISH WAY

LEGEND

- MONITORING WELL LOCATION
- SITE BOUNDARY

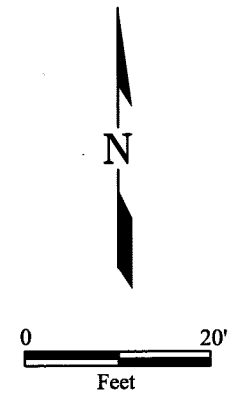
ANALYTES

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 (November 12, 2012)

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 ^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	<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	<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
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MW-1	08/16/12	5.91	--	189.88	<50	30	<66	19	0.7	<0.5	<0.5	--	--	--	--	--	<50
(cont.)	11/12/12	5.73	--	190.06	<50	45	<66	<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 ^e	<1,000 ^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.												
	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
	11/22/11	8.60	--	189.43	<50	<30	<69	<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.)	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	
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	<0.5	--	--	--	--	--	
	06/01/07	4.94	--	92.90	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--	
	09/06/07	5.43	--	92.41	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--	
	12/03/07	4.70	--	93.14	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--	
	03/05/08	4.89	--	92.95	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--	
	06/11/08	5.11	--	92.73	<50	100 ^b	560 ^b	<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	<0.5	--	--	--	--	--	
	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	--	--	--	--	--	--	
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	

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.)	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
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	--	--	--	--	--	--
	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	--	--	--	--	--	--	

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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.)	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	<0.5	--	--	--	--	--	<50
	08/16/12	7.18	--	189.59	<50	<29	<67	<0.5	<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	<0.5	--	--	--	--	--	<50	
MW-5 101.14 195.00	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	<0.5	--	--	--	--	--	<50	
08/17/11	5.11	--	189.89	<50	<30 ^f	<69 ^f	<0.5	<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	<0.5	--	--	--	--	--	<50	
03/30/12	4.43	--	190.57	<50	<29	<67	<0.5	<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	<0.5	--	--	--	--	--	<50	
08/16/12	4.52	--	190.48	<50	<28	<66	<0.5	<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	<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	--	--	--	--	--	
	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	--	--	--	--	--		

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.)	12/10/08							Removed from sampling event this quarter.											
	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	--		
196.52	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		
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	--	--	--	--	--		
	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	--		
196.93	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		
	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		

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-8 102.7	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	--	--	--	--	--	--
197.48	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 ^g	<70 ^g	<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	
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 sample 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.

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
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
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
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
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
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

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-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
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

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 # 121112-LB Date 11/12/12 Client CHEVRON

Site 200 S 36TH ST, BELLINGHAM, 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	0607	2					5.73	22.62		
MW-2	0819	2					8.36	20.79		
MW-3	0755	2					5.45	20.97		
MW-4	0825	2					6.36	20.22		
MW-5	0800	2					4.51	13.53		
MW-6	0750	2					5.56	13.78		
MW-7	0830	2					6.63	17.98		
MW-8	0814	2					7.81	17.35	↓	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 12112-LB1	Client: CHEVRON
Sampler: LB	Gauging Date: 11/12/12
Well I.D.: MW-1	Well Diameter (in.): ② 3 4 6 8
Total Well Depth (ft.): 22.62	Depth to Water (ft.): 5.73 5.73
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>etc</u> 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: 1027 Flow Rate: 200 mL/MIN Pump Depth: _____

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.)
1025	14.93	6.83	676	11	1.46	27.8	600	5.76
1028	15.03	6.84	680	10	1.12	26.0	900 1200	5.78
1031	15.04	6.82	679	10	0.94	25.7	1200 1800	5.81
1034	15.05	6.81	678	11	0.93	24.6	1800 2400	5.83
1037	15.05	6.80	679	11	0.94	23.9	3000	5.85
Post	15.10	6.81	680	11	0.93	20.4	Fe ²⁺ =	1.8 mg/L

Did well dewater? Yes No Amount actually evacuated: 31
 Sampling Time: 1038 Sampling Date: 11/12/12
 Sample I.D.: MW-1 Laboratory: LANCASTER
 Analyzed for: TPH-C BTEX MTBE TPH-D Other: SEZ COL
 Equipment Blank I.D.: @ Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121112-LB1	Client: CHEVRON
Sampler: LB	Gauging Date: 11/12/12
Well I.D.: MW-3	Well Diameter (in.): \varnothing 3 4 6 8
Total Well Depth (ft.): 20.97	Depth to Water (ft.): 5.46
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVE Grade	Flow Cell Type: VSE 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0917 Flow Rate: 200 mL/MIN Pump Depth: _____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μ S/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0920	13.17	6.31	682	11	1.33	29.5	600	5.49
0923	13.23	6.38	685	9	1.17	18.6	1200	5.52
0926	13.22	6.38	688	6	1.08	15.9	1800	5.55
0929	13.23	6.37	689	7	1.06	14.4	2400	5.56
0932	13.24	6.38	690	8	1.05	13.6	3000	5.58
Post	13.20	6.41	690	5	1.01	10.6	Fe ²⁺ = 1.4 mg/L	

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

Sampling Time: 0933 Sampling Date: 11/12/12

Sample I.D.: MW-3 Laboratory: LINCUS 15232

Analyzed for: ~~PPH-G~~ ~~BTEX~~ ~~MTBE~~ ~~PPH-D~~ Other: SEE COC

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

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121112-LB1	Client: CHEVRON
Sampler: LB	Gauging Date: 11/12/12
Well I.D.: MW-4	Well Diameter (in.): ② 3 4 6 8
Total Well Depth (ft.): 2022	Depth to Water (ft.): 630
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSE 886

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1157 Flow Rate: 200 mL/min Pump Depth: _____

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.)
1200	13.66	6.46	356	11	1.43	75.7	600	6.39
1203	13.76	6.51	350	10	1.21	69.2	1200	6.42
1206	13.74	6.51	354	9	1.15	62.4	1800	6.45
1209	13.75	6.51	355	10	1.14	61.8	2400	6.46
1212	13.74	6.52	355	10	1.13	60.3	3000	6.48
Post	13.76	6.48	355	10	1.08	55.4	Fe ²⁺ =	0.0mg/L

Did well dewater? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3 L
Sampling Time: 1213	Sampling Date: 11/12/12
Sample I.D.: MW-4	Laboratory: LANCASTER
Analyzed for: TPH-C <input checked="" type="checkbox"/> RTEX <input checked="" type="checkbox"/> MTBE <input checked="" type="checkbox"/> TRH-D <input checked="" type="checkbox"/> Other: SEE CAL	
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121112-LB1	Client: CHEVRON
Sampler: LB	Gauging Date: 11/12/12
Well I.D.: MW-5	Well Diameter (in.): \emptyset 3 4 6 8
Total Well Depth (ft.): 13.53	Depth to Water (ft.): 4.51
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSE 586

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0950 Flow Rate: 200 mL/min Pump Depth: _____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μ S/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0953	14.62	6.82	848	10	1.36	25.0	600	4.56
0956	14.60	6.99	858	8	1.11	21.9	1200	4.59
0959	14.58	7.02	859	6	0.89	20.4	1800	4.62
1002	14.57	7.01	859	6	0.88	19.8	2400	4.64
1005	14.58	7.00	860	7	0.87	19.1	3000	4.65
Post	14.55	7.00	860	0	0.85	17.8	Fe ²⁺ =	2.2 mg/L

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

Sampling Time: 1006 Sampling Date: 11/12/12

Sample I.D.: MW-5 Laboratory: LANCASTER

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

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

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121112-LB1	Client: CHEVRON
Sampler: LB	Gauging Date: 11/12/12
Well I.D.: MW-6	Well Diameter (in.): \varnothing 3 4 6 8 _____
Total Well Depth (ft.): 13.78	Depth to Water (ft.): 5.56
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSL 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0846 Flow Rate: 200 mL/MIN Pump Depth: _____

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.)
0849	12.61	6.88	638	10	1.61	9.4	600	5.61
0852	12.83	6.89	642	8	1.62	7.4	1200	5.64
0855	12.89	6.84	638	6	1.54	6.3	1800	5.66
0858	12.96	6.83	639	6	1.53	6.1	2400	5.69
0901	12.91	6.82	640	5	1.52	5.1	3000	5.71
Post	12.92	6.85	641	5	1.50	4.4	Fe ²⁺ = 1.8 mg/L	

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

Sampling Time: 0902 Sampling Date: 11/12/12

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

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

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

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121172-281	Client: CHEVRON
Sampler: LB	Gauging Date: 11/12/12
Well I.D.: MW-7	Well Diameter (in.): <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8
Total Well Depth (ft.): 1298	Depth to Water (ft.): 6.63
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: RVC Grade	Flow Cell Type: YSI 520

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other

Start Purge Time: 1229 Flow Rate: 200 mL/min Pump Depth: _____

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.)
1232	14.21	6.50	563	10	1.14	-7.7	600	6.66
1235	14.26	6.52	564	9	0.97	-14.6	1200	6.68
1238	14.32	6.58	567	10	0.96	-18.8	1800	6.71
1241	14.32	6.57	568	10	0.95	-19.8	2400	6.73
1244	14.32	6.56	579	10	0.94	-20.6	3000	6.74
Post	1430	6.54	571	10	0.92	-21.4	Fe ²⁺	20mg/L

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

Sampling Time: 1245 Sampling Date: 11/12/12

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

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

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

LOW FLOW WELL MONITORING DATA SHEET

Project #: 12112-LB1	Client: CHEVRON
Sampler: LB	Gauging Date: 11/12/12
Well I.D.: MW-8	Well Diameter (in.): \varnothing 3 4 6 8
Total Well Depth (ft.): 17.55	Depth to Water (ft.): 7.81
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSE 550

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1054 Flow Rate: 200 mL/MIN Pump Depth: _____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μ S/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1057	15.99	6.65	630	12	6.80	6.1	600	7.85
1100	16.12	6.72	635	10	6.86	7.6	1200	7.88
1103	16.14	6.72	642	10	6.87	8.9	1500 1800	7.91
1106	16.15	6.72	643	10	6.88	9.4	2400	7.93
1109	16.17	6.73	644	10	6.87	9.9	3500	7.94
Post	16.15	6.73	643	10	6.87	10.6	Fe ²⁺ =	1.4 mg/L

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

Sampling Time: 1110 Sampling Date: 11/12/12

Sample I.D.: MW-8 Laboratory: LAIVCASTER

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

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

WELLHEAD INSPECTION FORM

Client: CHEVRON Site: 200 S. 36TH ST, BELLINGHAM, WA Date: 11/12/12
 Job #: 12-112-L81 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 # 35-1446 J. MARK DUGLES
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		/
MW-2	/ 1		/
MW-3	/ 1		/
MW-4	/ 1		/
MW-5	/ 1		/
MW-6	/ 1		/
MW-7	/ 1		/
MW-8	/ 1		/
	/		/
	/		/

added equip. / 5 any other adjustments / _____

rinse water / _____

TOTAL GALS. RECOVERED 16 loaded onto BTS vehicle # 88

BTS event # 12112-LB1 time 1315 date 11 / 12 / 12

signature [Signature]

Blaine Tech Services, Inc.

Permit To Work for Chevron EMC Sites

Client: CHEVRON Date: 11/12/12
Site Address: 200 S 36TH ST, BALDINGHAM, WA
Job Number: 121112-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] [Signature] 8/12/11 1502
Name Title Date Time

Attachment B:
Laboratory Analysis Report



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

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

November 25, 2012

Project: 351448

Submittal Date: 11/13/2012
Group Number: 1348520
PO Number: 0015093283
Release Number: INGLIS
State of Sample Origin: WA

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
MW-1 Water Sample	6856725
MW-2 Water Sample	6856726
MW-3 Water Sample	6856727
MW-4 Water Sample	6856728
MW-5 Water Sample	6856729
MW-6 Water Sample	6856730
MW-7 Water Sample	6856731
MW-8 Water Sample	6856732
QA Water Sample	6856733

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

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

Respectfully Submitted,

Jill M. Parker

Jill M. Parker
Senior Specialist

(717) 556-7262



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 Water Sample
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6856725
LLI Group # 1348520
Account # 11255

Project Name: 351448

Collected: 11/12/2012 10:38 by LB

Chevron

L4310

Submitted: 11/13/2012 09:25

6001 Bollinger Canyon Road

Reported: 11/25/2012 19:19

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 w/Si					
	ECY 97-602 NWTPH-Dx modified		ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	45	28	1
02211	HRO C24-C40 w/Si Gel	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	N.D.	1,500	5
SM20 2320 B					
12150	Total Alkalinity	n.a.	416,000 ug/l as CaCO3	700 ug/l as CaCO3	1
SM20 3500 Fe B modified					
08344	Ferrous Iron	n.a.	2,100 ug/l	100 ug/l	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	F123203AA	11/15/2012 20:48	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F123203AA	11/15/2012 20:48	Kevin A Sposito	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12313A20B	11/14/2012 12:06	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12313A20B	11/14/2012 12:06	Marie D John	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	123190026A	11/16/2012 16:02	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	123190026A	11/15/2012 08:40	Katheryne V Sponheimer	1

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

LLI Sample # WW 6856725
LLI Group # 1348520
Account # 11255

Project Name: 351448

Collected: 11/12/2012 10:38 by LB

Chevron

L4310

Submitted: 11/13/2012 09:25

6001 Bollinger Canyon Road

Reported: 11/25/2012 19:19

San Ramon CA 94583

36BM1

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	12318373901B	11/13/2012 20:48	Joseph E McKenzie	5
00228	Sulfate	EPA 300.0	1	12318373901B	11/18/2012 16:50	Christopher D Meeks	5
12150	Total Alkalinity	SM20 2320 B	1	12321002104A	11/16/2012 19:25	Michele L Graham	1
08344	Ferrous Iron	SM20 3500 Fe B modified	1	12320834402A	11/15/2012 21:50	Daniel S Smith	10



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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-2 Water Sample
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6856726
LLI Group # 1348520
Account # 11255

Project Name: 351448

Collected: 11/12/2012 11:41 by LB

Chevron

L4310

Submitted: 11/13/2012 09:25

6001 Bollinger Canyon Road

Reported: 11/25/2012 19:19

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 w/Si					
	ECY 97-602 NWTPH-Dx modified		ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	28	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1
Wet Chemistry					
	EPA 300.0		ug/l	ug/l	
00368	Nitrate Nitrogen	14797-55-8	360	250	5
00228	Sulfate	14808-79-8	14,400	1,500	5
Total Alkalinity					
	SM20 2320 B		ug/l as CaCO3	ug/l as CaCO3	
12150	Total Alkalinity	n.a.	258,000	700	1
Ferrous Iron					
	SM20 3500 Fe B modified		ug/l	ug/l	
08344	Ferrous Iron	n.a.	36	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	F123203AA	11/15/2012 21:10	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F123203AA	11/15/2012 21:10	Kevin A Sposito	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12313A20B	11/14/2012 12:28	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12313A20B	11/14/2012 12:28	Marie D John	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	123190026A	11/16/2012 14:53	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	123190026A	11/15/2012 08:40	Katheryne V Sponheimer	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-2 Water Sample
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6856726
LLI Group # 1348520
Account # 11255

Project Name: 351448

Collected: 11/12/2012 11:41 by LB

Chevron

L4310

Submitted: 11/13/2012 09:25

6001 Bollinger Canyon Road

Reported: 11/25/2012 19:19

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	12318373901B	11/13/2012 21:03	Joseph E McKenzie	5
00228	Sulfate	EPA 300.0	1	12318373901B	11/18/2012 17:05	Christopher D Meeks	5
12150	Total Alkalinity	SM20 2320 B	1	12321002104A	11/16/2012 19:31	Michele L Graham	1
08344	Ferrous Iron	SM20 3500 Fe B modified	1	12320834402A	11/15/2012 21:50	Daniel S Smith	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-3 Water Sample
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6856727
LLI Group # 1348520
Account # 11255

Project Name: 351448

Collected: 11/12/2012 09:33 by LB

Chevron

L4310

Submitted: 11/13/2012 09:25

6001 Bollinger Canyon Road

Reported: 11/25/2012 19:19

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 w/Si					
	ECY 97-602 NWTPH-Dx modified		ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	29	1
02211	HRO C24-C40 w/Si Gel	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	4,900	1,500	5
Total Alkalinity					
	SM20 2320 B		ug/l as CaCO3	ug/l as CaCO3	
12150	Total Alkalinity	n.a.	439,000	700	1
Ferrous Iron					
	SM20 3500 Fe B modified		ug/l	ug/l	
08344	Ferrous Iron	n.a.	740	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	F123202AA	11/15/2012 07:36	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F123202AA	11/15/2012 07:36	Anita M Dale	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12313A20B	11/14/2012 12:50	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12313A20B	11/14/2012 12:50	Marie D John	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	123190026A	11/16/2012 15:16	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	123190026A	11/15/2012 08:40	Katheryne V Sponheimer	1



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Analysis Report

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

LLI Sample # WW 6856727
LLI Group # 1348520
Account # 11255

Project Name: 351448

Collected: 11/12/2012 09:33 by LB

Chevron

L4310

Submitted: 11/13/2012 09:25

6001 Bollinger Canyon Road

Reported: 11/25/2012 19:19

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	12318373902A	11/13/2012 21:45	Joseph E McKenzie	5
00228	Sulfate	EPA 300.0	1	12318373902A	11/18/2012 18:16	Christopher D Meeks	5
12150	Total Alkalinity	SM20 2320 B	1	12321002104A	11/16/2012 19:56	Michele L Graham	1
08344	Ferrous Iron	SM20 3500 Fe B modified	1	12320834402A	11/15/2012 21:50	Daniel S Smith	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-4 Water Sample
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6856728
LLI Group # 1348520
Account # 11255

Project Name: 351448

Collected: 11/12/2012 12:13 by LB

Chevron

L4310

Submitted: 11/13/2012 09:25

6001 Bollinger Canyon Road

Reported: 11/25/2012 19:19

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 w/Si					
		ECY 97-602 NWTPH-Dx modified	ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	28	1
02211	HRO C24-C40 w/Si Gel	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	10,400	1,500	5
Total Alkalinity					
		SM20 2320 B	ug/l as CaCO3	ug/l as CaCO3	
12150	Total Alkalinity	n.a.	193,000	700	1
Ferrous Iron					
		SM20 3500 Fe B modified	ug/l	ug/l	
08344	Ferrous Iron	n.a.	N.D.	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	F123202AA	11/15/2012 07:58	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F123202AA	11/15/2012 07:58	Anita M Dale	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12313A20B	11/14/2012 13:12	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12313A20B	11/14/2012 13:12	Marie D John	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	123190026A	11/16/2012 15:39	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	123190026A	11/15/2012 08:40	Katheryne V Sponheimer	1



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Analysis Report

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

LLI Sample # WW 6856728
LLI Group # 1348520
Account # 11255

Project Name: 351448

Collected: 11/12/2012 12:13 by LB

Chevron

L4310

Submitted: 11/13/2012 09:25

6001 Bollinger Canyon Road

Reported: 11/25/2012 19:19

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	12318373902A	11/13/2012 22:56	Joseph E McKenzie	5
00228	Sulfate	EPA 300.0	1	12318373902A	11/18/2012 18:58	Christopher D Meeks	5
12150	Total Alkalinity	SM20 2320 B	1	12321002104A	11/16/2012 20:02	Michele L Graham	1
08344	Ferrous Iron	SM20 3500 Fe B modified	1	12320834402A	11/15/2012 21:50	Daniel S Smith	1

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

LLI Sample # WW 6856729
LLI Group # 1348520
Account # 11255

Project Name: 351448

Collected: 11/12/2012 10:06 by LB

Chevron

L4310

Submitted: 11/13/2012 09:25

6001 Bollinger Canyon Road

Reported: 11/25/2012 19:19

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 NWT PH-Gx	ug/l	ug/l	
08273	NWT PH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons w/Si					
		ECY 97-602 NWT PH-Dx modified	ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	30	28	1
02211	HRO C24-C40 w/Si Gel	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	2,000	1,500	5
Total Alkalinity					
		SM20 2320 B	ug/l as CaCO3	ug/l as CaCO3	
12150	Total Alkalinity	n.a.	461,000	700	1
Ferrous Iron					
		SM20 3500 Fe B modified	ug/l	ug/l	
08344	Ferrous Iron	n.a.	2,800	200	20

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	F123204AA	11/15/2012 21:21	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F123204AA	11/15/2012 21:21	Kevin A Sposito	1
08273	NWT PH-Gx water C7-C12	ECY 97-602 NWT PH-Gx	1	12319B20A	11/16/2012 00:56	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	12319B20A	11/16/2012 00:56	Catherine J Schwarz	1
02211	NWT PH-Dx water w/Si Gel	ECY 97-602 NWT PH-Dx modified	1	123190026A	11/16/2012 16:25	Christine E Dolman	1



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Analysis Report

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

LLI Sample # WW 6856729
LLI Group # 1348520
Account # 11255

Project Name: 351448

Collected: 11/12/2012 10:06 by LB

Chevron

L4310

Submitted: 11/13/2012 09:25

6001 Bollinger Canyon Road

Reported: 11/25/2012 19:19

San Ramon CA 94583

36BM5

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	123190026A	11/15/2012 08:40	Katheryne V Sponheimer	1
00368	Nitrate Nitrogen	EPA 300.0	1	12318373902A	11/13/2012 23:10	Joseph E McKenzie	5
00228	Sulfate	EPA 300.0	1	12318373902A	11/18/2012 19:12	Christopher D Meeks	5
12150	Total Alkalinity	SM20 2320 B	1	12321002104A	11/16/2012 20:07	Michele L Graham	1
08344	Ferrous Iron	SM20 3500 Fe B modified	1	12320834402A	11/15/2012 21:50	Daniel S Smith	20



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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 Water Sample
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6856730
LLI Group # 1348520
Account # 11255

Project Name: 351448

Collected: 11/12/2012 09:02 by LB

Chevron

L4310

Submitted: 11/13/2012 09:25

6001 Bollinger Canyon Road

Reported: 11/25/2012 19:19

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 w/Si					
	ECY 97-602 NWTPH-Dx modified		ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	29	1
02211	HRO C24-C40 w/Si Gel	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	2,400	1,500	5
Total Alkalinity					
	SM20 2320 B		ug/l as CaCO3	ug/l as CaCO3	
12150	Total Alkalinity	n.a.	315,000	700	1
Ferrous Iron					
	SM20 3500 Fe B modified		ug/l	ug/l	
08344	Ferrous Iron	n.a.	1,300	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	F123204AA	11/15/2012 22:25	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F123204AA	11/15/2012 22:25	Kevin A Sposito	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12319B20A	11/16/2012 01:18	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	12319B20A	11/16/2012 01:18	Catherine J Schwarz	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	123190026A	11/16/2012 16:48	Christine E Dolman	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 Water Sample
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6856730
LLI Group # 1348520
Account # 11255

Project Name: 351448

Collected: 11/12/2012 09:02 by LB

Chevron

L4310

Submitted: 11/13/2012 09:25

6001 Bollinger Canyon Road

Reported: 11/25/2012 19:19

San Ramon CA 94583

36BM6

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	123190026A	11/15/2012 08:40	Katheryne V Sponheimer	1
00368	Nitrate Nitrogen	EPA 300.0	1	12318373902A	11/13/2012 23:25	Joseph E McKenzie	5
00228	Sulfate	EPA 300.0	1	12318373902A	11/18/2012 19:27	Christopher D Meeks	5
12150	Total Alkalinity	SM20 2320 B	1	12321002104A	11/16/2012 20:13	Michele L Graham	1
08344	Ferrous Iron	SM20 3500 Fe B modified	1	12320834402A	11/15/2012 21:50	Daniel S Smith	10



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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 Water Sample
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6856731
LLI Group # 1348520
Account # 11255

Project Name: 351448

Collected: 11/12/2012 12:45 by LB

Chevron

L4310

Submitted: 11/13/2012 09:25

6001 Bollinger Canyon Road

Reported: 11/25/2012 19:19

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.	230	50	1
GC Petroleum Hydrocarbons w/Si					
	ECY 97-602 NWTPH-Dx modified		ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	580	28	1
02211	HRO C24-C40 w/Si Gel	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	2,400	1,500	5
Total Alkalinity					
	SM20 2320 B		ug/l as CaCO3	ug/l as CaCO3	
12150	Total Alkalinity	n.a.	334,000	700	1
Ferrous Iron					
	SM20 3500 Fe B modified		ug/l	ug/l	
08344	Ferrous Iron	n.a.	10,300	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	F123204AA	11/15/2012 22:47	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F123204AA	11/15/2012 22:47	Kevin A Sposito	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12319B20A	11/16/2012 01:40	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	12319B20A	11/16/2012 01:40	Catherine J Schwarz	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	123190026A	11/16/2012 17:11	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-7 Water Sample
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6856731
LLI Group # 1348520
Account # 11255

Project Name: 351448

Collected: 11/12/2012 12:45 by LB

Chevron

L4310

Submitted: 11/13/2012 09:25

6001 Bollinger Canyon Road

Reported: 11/25/2012 19:19

San Ramon CA 94583

36BM7

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	123190026A	11/15/2012 08:40	Katheryne V Sponheimer	1
00368	Nitrate Nitrogen	EPA 300.0	1	12318373902A	11/13/2012 23:39	Joseph E McKenzie	5
00228	Sulfate	EPA 300.0	1	12318373902A	11/18/2012 19:41	Christopher D Weeks	5
12150	Total Alkalinity	SM20 2320 B	1	12321002104A	11/16/2012 20:19	Michele L Graham	1
08344	Ferrous Iron	SM20 3500 Fe B modified	1	12320834402A	11/15/2012 21:50	Daniel S Smith	50



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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-8 Water Sample
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6856732
LLI Group # 1348520
Account # 11255

Project Name: 351448

Collected: 11/12/2012 11:10 by LB

Chevron

L4310

Submitted: 11/13/2012 09:25

6001 Bollinger Canyon Road

Reported: 11/25/2012 19:19

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 w/Si					
	ECY 97-602 NWTPH-Dx modified		ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	28	1
02211	HRO C24-C40 w/Si Gel	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	3,600	1,500	5
Total Alkalinity					
	SM20 2320 B		ug/l as CaCO3	ug/l as CaCO3	
12150	Total Alkalinity	n.a.	368,000	700	1
Ferrous Iron					
	SM20 3500 Fe B modified		ug/l	ug/l	
08344	Ferrous Iron	n.a.	880	50	5

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	F123204AA	11/15/2012 23:09	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F123204AA	11/15/2012 23:09	Kevin A Sposito	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12319B20A	11/16/2012 02:02	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	12319B20A	11/16/2012 02:02	Catherine J Schwarz	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	123190026A	11/16/2012 17:34	Christine E Dolman	1



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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-8 Water Sample
Facility# 351448
200 S 36th St - Bellingham, WA

LLI Sample # WW 6856732
LLI Group # 1348520
Account # 11255

Project Name: 351448

Collected: 11/12/2012 11:10 by LB

Chevron

L4310

Submitted: 11/13/2012 09:25

6001 Bollinger Canyon Road

Reported: 11/25/2012 19:19

San Ramon CA 94583

36BM8

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	123190026A	11/15/2012 08:40	Katheryne V Sponheimer	1
00368	Nitrate Nitrogen	EPA 300.0	1	12318373902A	11/13/2012 23:53	Joseph E McKenzie	5
00228	Sulfate	EPA 300.0	1	12318373902A	11/18/2012 19:55	Christopher D Meeks	5
12150	Total Alkalinity	SM20 2320 B	1	12321002104B	11/16/2012 20:24	Michele L Graham	1
08344	Ferrous Iron	SM20 3500 Fe B modified	1	12320834402A	11/15/2012 21:50	Daniel S Smith	5



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

LLI Sample # WW 6856733
LLI Group # 1348520
Account # 11255

Project Name: 351448

Collected: 11/12/2012 08:00

Chevron

Submitted: 11/13/2012 09:25

L4310

Reported: 11/25/2012 19:19

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	
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	
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	F123204AA	11/15/2012 20:38	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F123204AA	11/15/2012 20:38	Kevin A Sposito	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12319B20A	11/15/2012 23:28	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	12319B20A	11/15/2012 23:28	Catherine J Schwarz	1

Quality Control Summary

 Client Name: Chevron
 Reported: 11/25/12 at 07:19 PM

Group Number: 1348520

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: F123202AA	Sample number(s): 6856727-6856728							
Benzene	N.D.	0.5	ug/l	105		77-121		
Ethanol	N.D.	50.	ug/l	105		54-149		
Ethylbenzene	N.D.	0.5	ug/l	103		79-120		
Toluene	N.D.	0.5	ug/l	103		79-120		
Xylene (Total)	N.D.	0.5	ug/l	104		77-120		
Batch number: F123203AA	Sample number(s): 6856725-6856726							
Benzene	N.D.	0.5	ug/l	103		77-121		
Ethanol	N.D.	50.	ug/l	108		54-149		
Ethylbenzene	N.D.	0.5	ug/l	99		79-120		
Toluene	N.D.	0.5	ug/l	103		79-120		
Xylene (Total)	N.D.	0.5	ug/l	99		77-120		
Batch number: F123204AA	Sample number(s): 6856729-6856733							
Benzene	N.D.	0.5	ug/l	101		77-121		
Ethanol	N.D.	50.	ug/l	103		54-149		
Ethylbenzene	N.D.	0.5	ug/l	100		79-120		
Toluene	N.D.	0.5	ug/l	101		79-120		
Xylene (Total)	N.D.	0.5	ug/l	101		77-120		
Batch number: 12313A20B	Sample number(s): 6856725-6856728							
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	91	88	75-135	4	30
Batch number: 12319B20A	Sample number(s): 6856729-6856733							
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	88	85	75-135	3	30
Batch number: 123190026A	Sample number(s): 6856725-6856732							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	95	92	50-120	3	20
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					
Batch number: 12318373901B	Sample number(s): 6856725-6856726							
Nitrate Nitrogen	N.D.	50.	ug/l	99		90-110		
Sulfate	N.D.	300.	ug/l	102		90-110		
Batch number: 12318373902A	Sample number(s): 6856727-6856732							
Nitrate Nitrogen	N.D.	50.	ug/l	103		90-110		
Sulfate	N.D.	300.	ug/l	102		90-110		
Batch number: 12320834402A	Sample number(s): 6856725-6856732							
Ferrous Iron	N.D.	10.	ug/l	100		93-105		
Batch number: 12321002104A	Sample number(s): 6856725-6856731							
Total Alkalinity	N.D.	700.	ug/l as	102		90-110		

*- 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: 1348520
Reported: 11/25/12 at 07:19 PM

<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: 12321002104B	Sample number(s): 6856732							
Total Alkalinity	N.D.	700.	ug/l as CaCO3	102		90-110		

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: F123202AA	Sample number(s): 6856727-6856728 UNSPK: 6856728								
Benzene	108	109	72-134	1	30				
Ethanol	111	117	53-146	6	30				
Ethylbenzene	105	106	71-134	1	30				
Toluene	106	107	80-125	1	30				
Xylene (Total)	104	105	79-125	1	30				
Batch number: F123203AA	Sample number(s): 6856725-6856726 UNSPK: 6856726								
Benzene	107	102	72-134	5	30				
Ethanol	112	103	53-146	9	30				
Ethylbenzene	103	100	71-134	2	30				
Toluene	107	103	80-125	4	30				
Xylene (Total)	103	100	79-125	3	30				
Batch number: F123204AA	Sample number(s): 6856729-6856733 UNSPK: 6856729								
Benzene	104	105	72-134	1	30				
Ethanol	105	107	53-146	2	30				
Ethylbenzene	99	103	71-134	3	30				
Toluene	102	106	80-125	4	30				
Xylene (Total)	99	102	79-125	4	30				
Batch number: 12318373901B	Sample number(s): 6856725-6856726 UNSPK: P856677 BKG: P856677								
Nitrate Nitrogen	101		90-110			N.D.	N.D.	0 (1)	20
Sulfate	104		90-110			152,000	152,000	1 (1)	20
Batch number: 12318373902A	Sample number(s): 6856727-6856732 UNSPK: 6856727 BKG: 6856727								
Nitrate Nitrogen	100		90-110			N.D.	N.D.	0 (1)	20
Sulfate	97		90-110			4,900	5,200	5 (1)	20
Batch number: 12320834402A	Sample number(s): 6856725-6856732 UNSPK: P858773 BKG: P858773								
Ferrous Iron	93	99	81-112	4	6	1,900	1,900	1 (1)	5
Batch number: 12321002104A	Sample number(s): 6856725-6856731 UNSPK: 6856726 BKG: 6856726								
Total Alkalinity	58*		73-121			258,000	258,000	0	5
Batch number: 12321002104B	Sample number(s): 6856732 UNSPK: 6856726 BKG: 6856732								
Total Alkalinity	58*		73-121			368,000	366,000	1	5

*- 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: 11/25/12 at 07:19 PM

Group Number: 1348520

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: F123202AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6856727	101	101	101	95
6856728	103	99	100	96
Blank	98	97	101	98
LCS	98	100	102	103
MS	100	100	101	103
MSD	100	99	100	102
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST VOCs by 8260B - Water

Batch number: F123203AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6856725	101	100	99	98
6856726	102	101	101	98
Blank	101	100	101	99
LCS	99	99	99	103
MS	99	99	100	103
MSD	99	98	99	101
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST VOCs by 8260B - Water

Batch number: F123204AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6856729	99	97	101	98
6856730	101	99	100	100
6856731	103	99	100	97
6856732	100	97	101	99
6856733	100	97	101	98
Blank	101	99	101	97
LCS	99	99	102	103
MS	100	98	101	102
MSD	98	99	102	101
Limits:	80-116	77-113	80-113	78-113

Analysis Name: NWTPH-Gx water C7-C12

Batch number: 12313A20B

	Trifluorotoluene-F
6856725	74
6856726	73
6856727	74
6856728	73
Blank	75

*- 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: 11/25/12 at 07:19 PM

Group Number: 1348520

Surrogate Quality Control

LCS 105
LCSD 103

Limits: 63-135

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 12319B20A
Trifluorotoluene-F

6856729 85
6856730 73
6856731 71
6856732 79
6856733 73
Blank 74
LCS 94
LCSD 92

Limits: 63-135

Analysis Name: NWTPH-Dx water w/Si Gel
Batch number: 123190026A
Orthoterphenyl

6856725 90
6856726 92
6856727 92
6856728 91
6856729 91
6856730 91
6856731 96
6856732 110
Blank 99
LCS 104
LCSD 100

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 ≥ 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 ≥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.

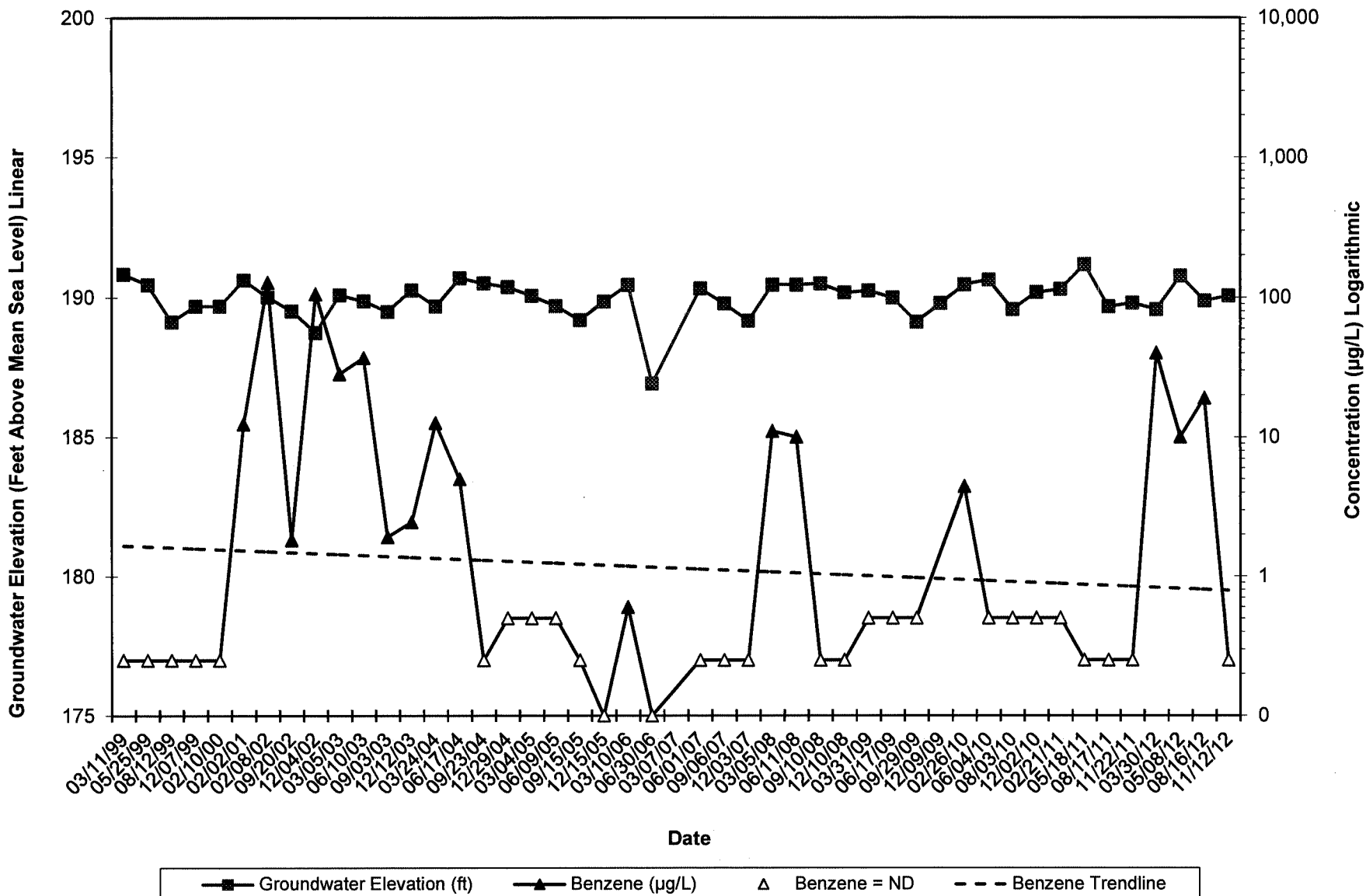
Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have 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.

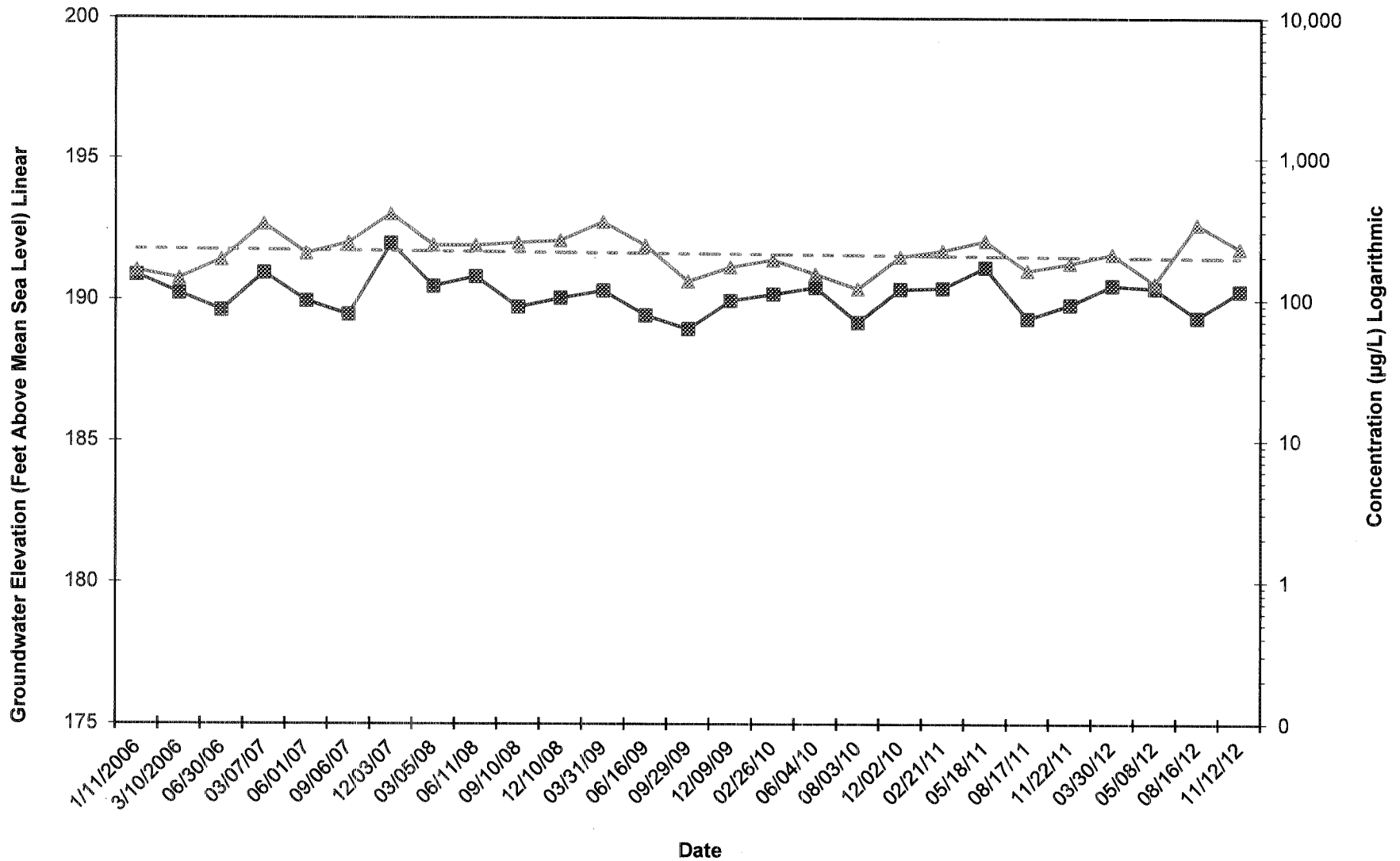
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Attachment C:
Hydrographs

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



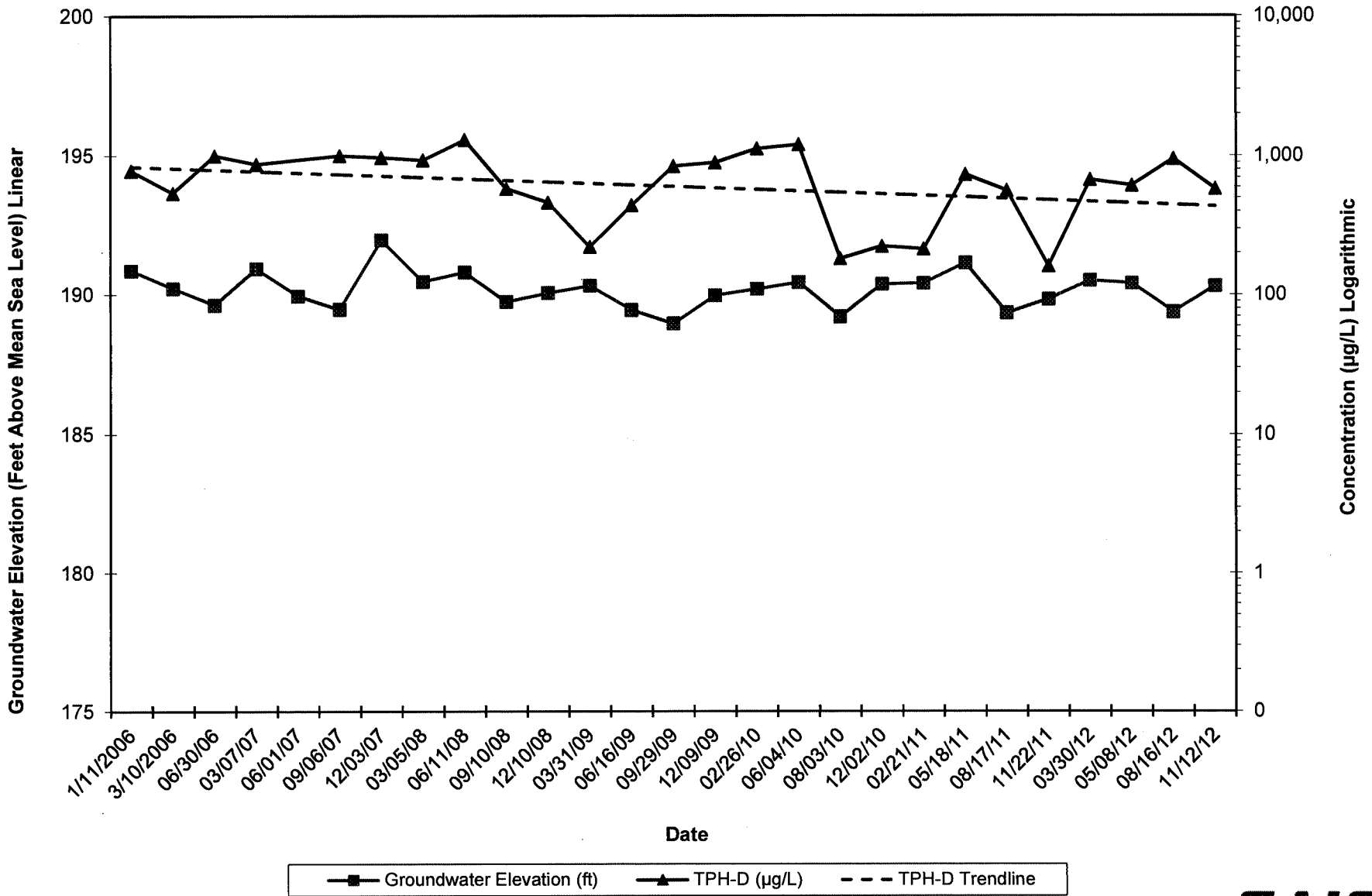
Well MW-7
Hydrograph - Gasoline-Range Hydrocarbons
76 Products Facility No. 351448
200 South 36th Street, Bellingham, Washington



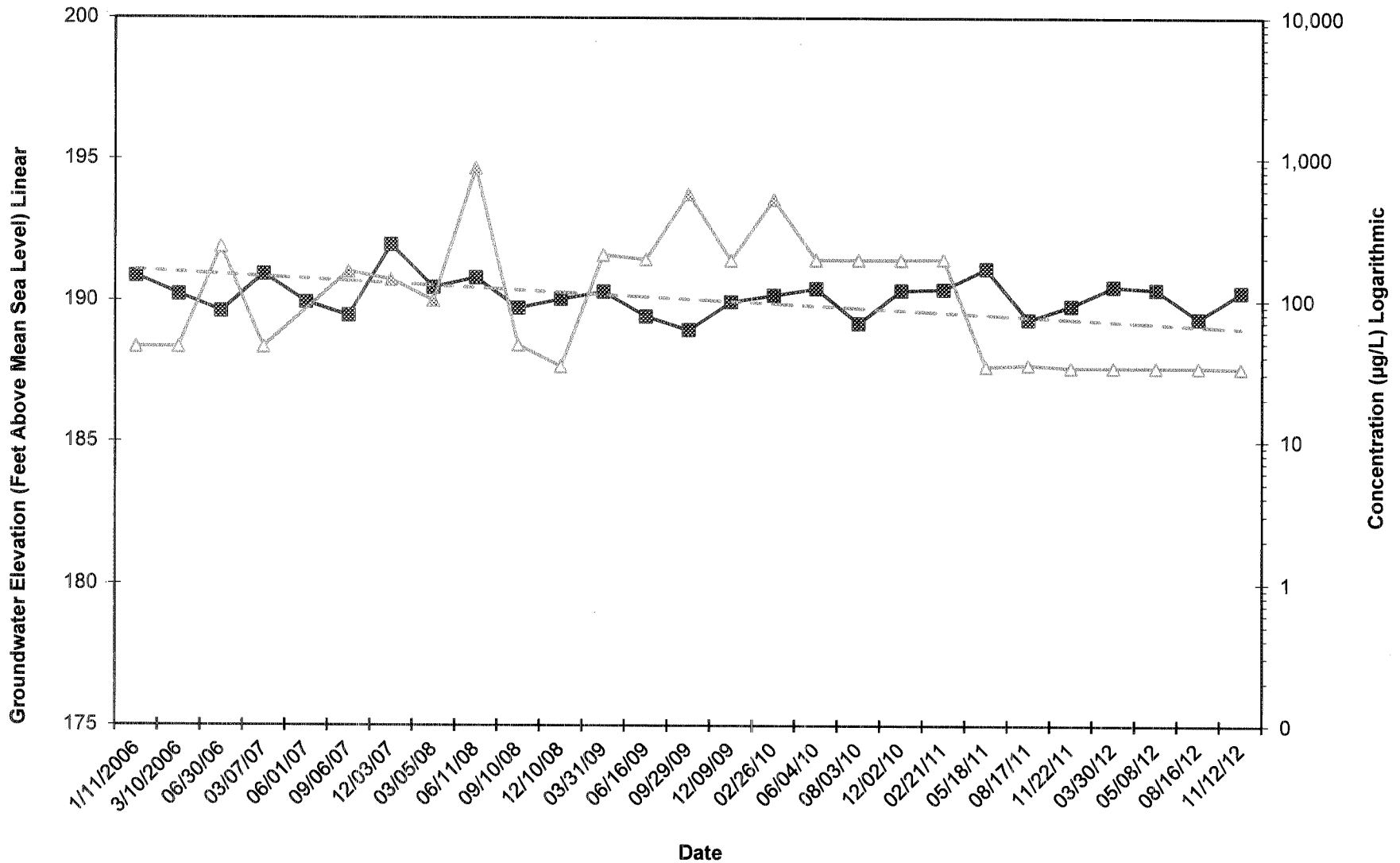
Groundwater Elevation (ft)
 TPH-G (µg/L)
 TPH-G Trendline



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



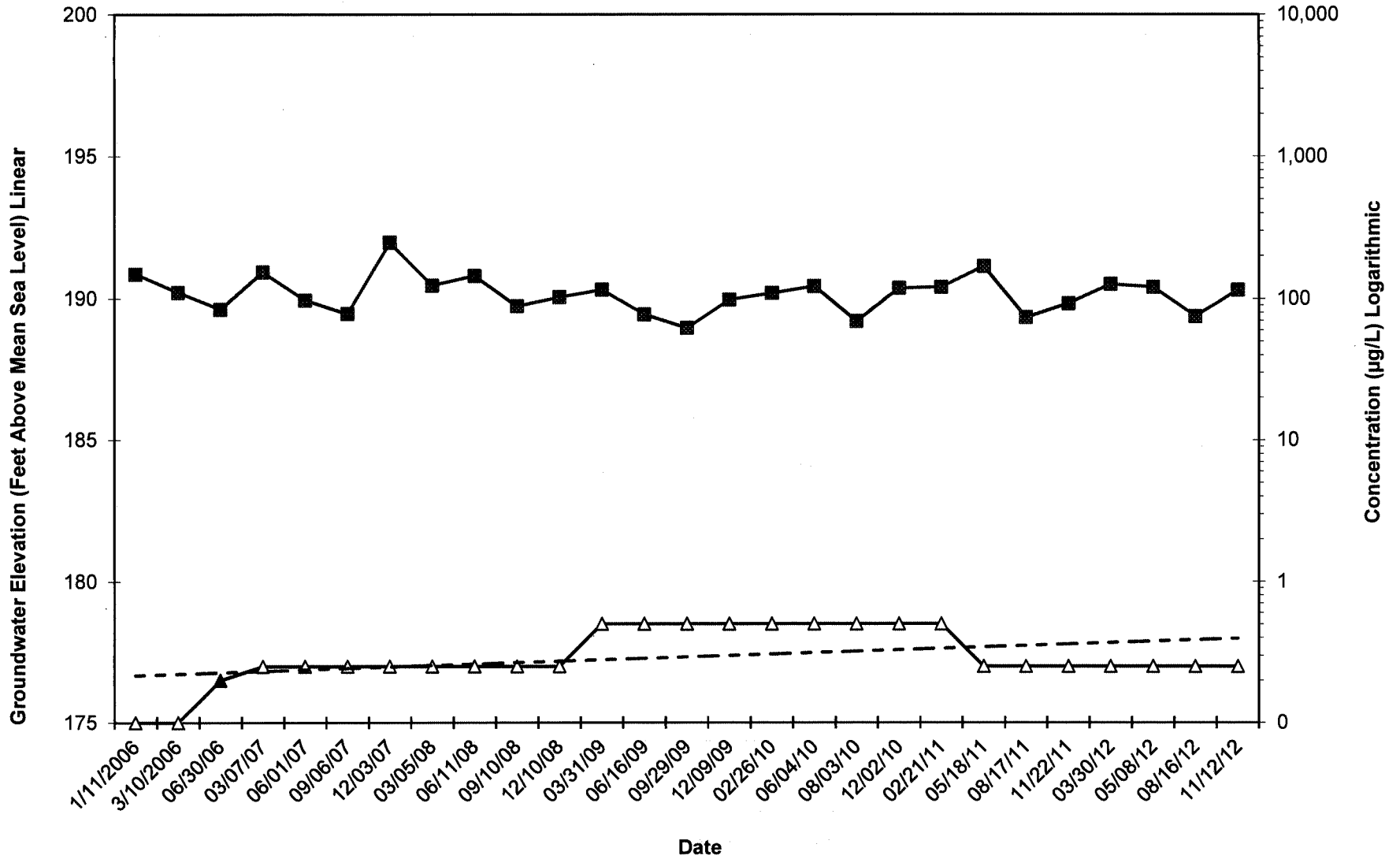
Well MW-7
Hydrograph - Heavy Oil-Range Hydrocarbons
76 Products Facility No. 351448
200 South 36th Street, Bellingham, Washington



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



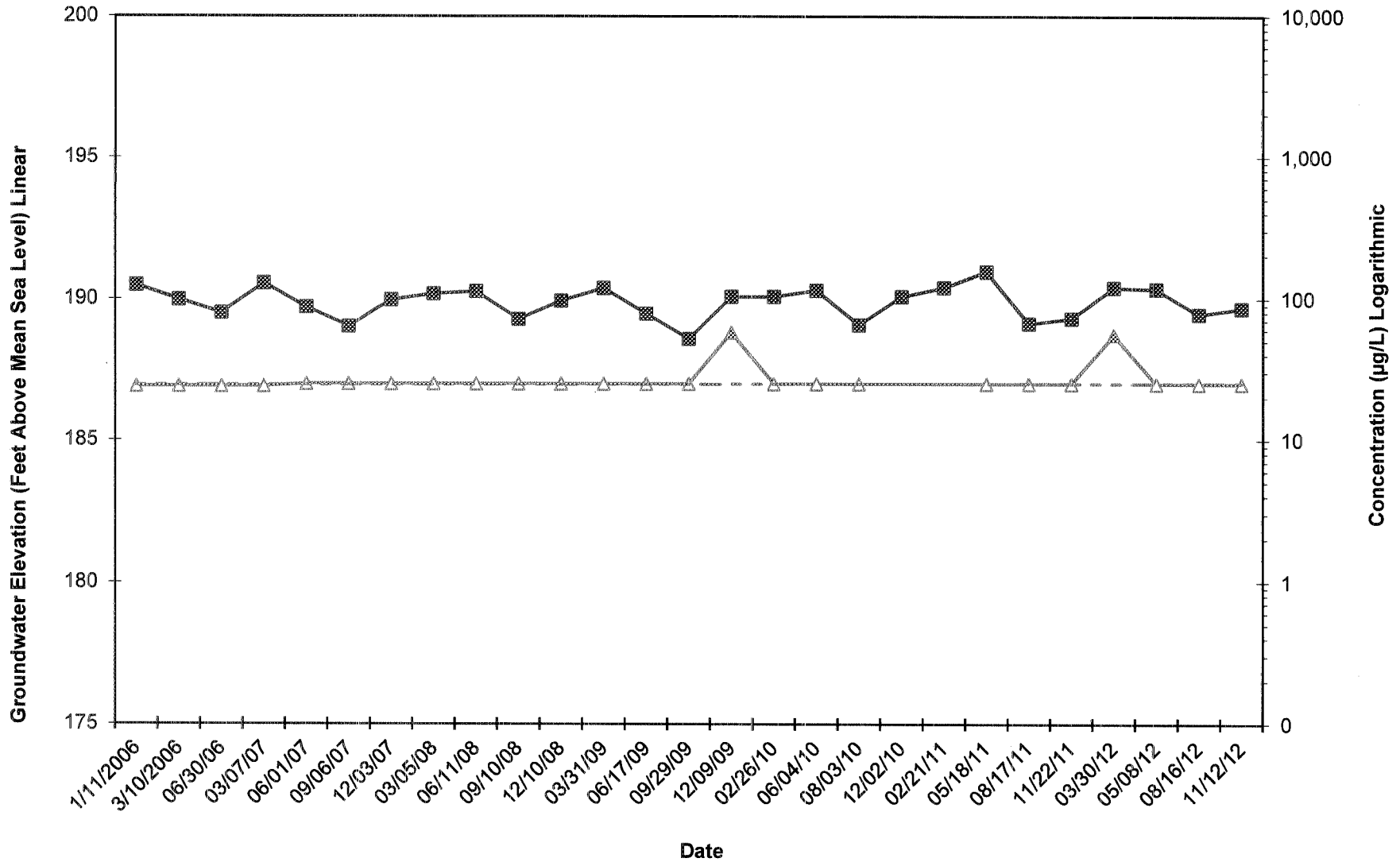
Well MW-7
Hydrograph - Benzene
76 Products Facility No. 351448
200 South 36th Street, Bellingham, Washington



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



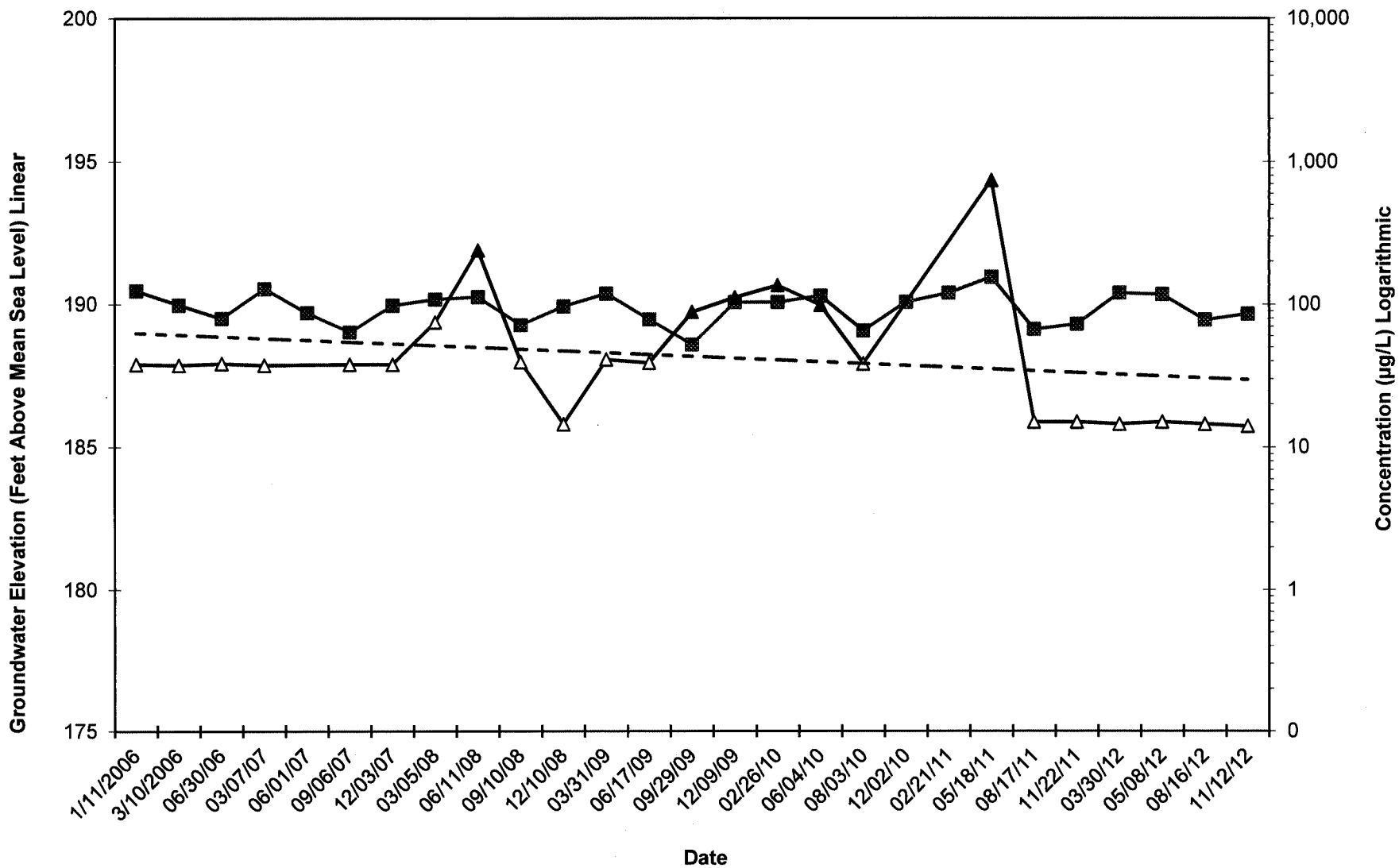
Well MW-8
Hydrograph - Gasoline-Range Hydrocarbons
76 Products Facility No. 351448
200 South 36th Street, Bellingham, Washington



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

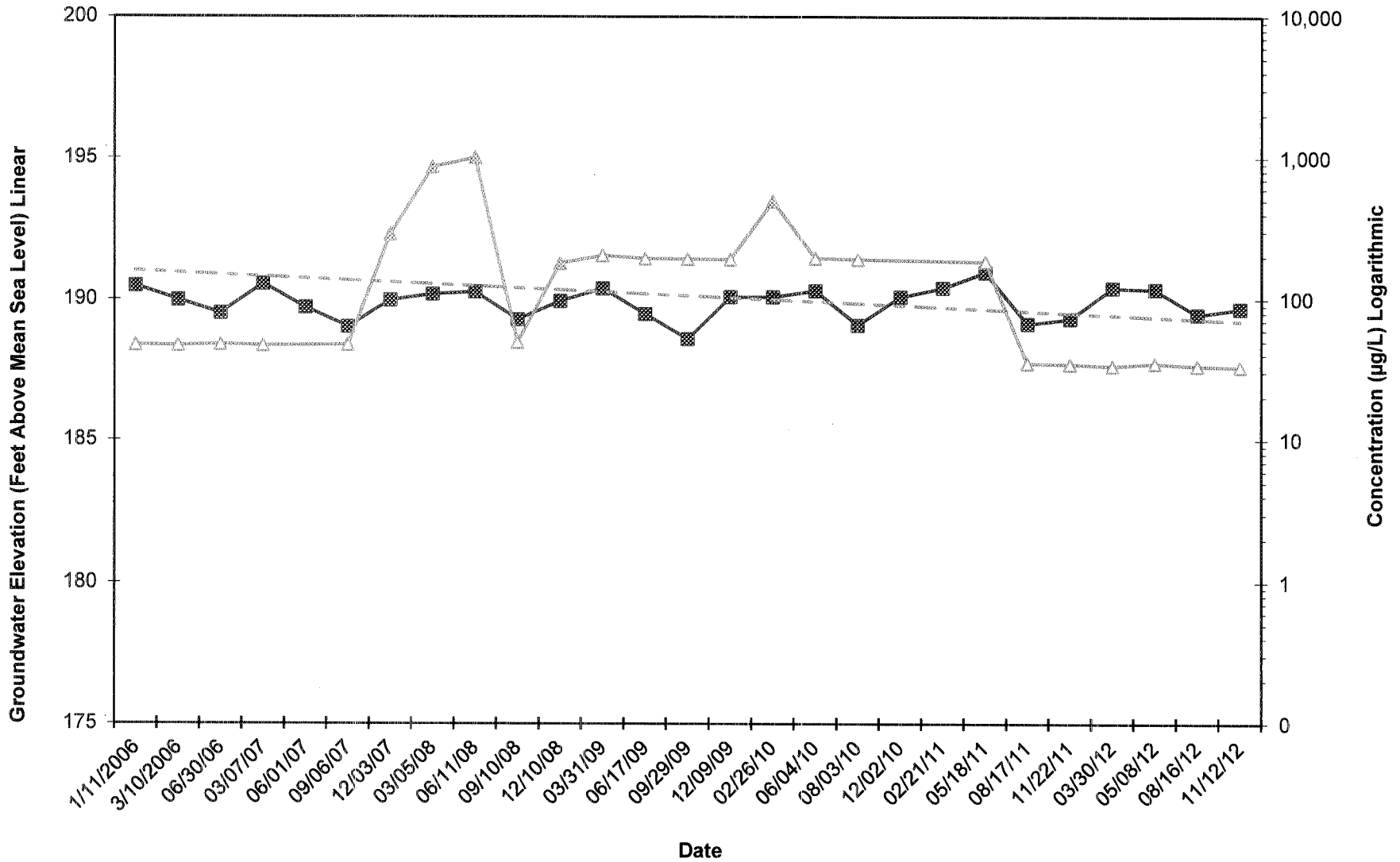


Well MW-8
Hydrograph - Diesel-Range Hydrocarbons
76 Products Facility No. 351448
200 South 36th Street, Bellingham, Washington



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

Well MW-8
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

