



August 1, 2012

Mr. Mark Horne
Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, California, 94583-5186

Subject: **Second Quarter 2012 Groundwater Monitoring and Sampling Report
Chevron Service Station No. 9-0129**
4700 Brooklyn Avenue
Seattle, Washington

Dear Mr. Horne:

SAIC Energy, Environment & Infrastructure, LLC (SAIC), on behalf of Chevron Environmental Management Company (CEMC), prepared this letter summarizing the second quarter 2012 groundwater monitoring and sampling event at Chevron Service Station No. 9-0129 (the site) in Seattle, Washington (Figure 1).

FIELD ACTIVITIES

Gettler-Ryan Inc. (Gettler-Ryan) conducted the groundwater monitoring and sampling field event on June 2, 2012. Gettler-Ryan collected depth-to-groundwater measurements and checked for the presence of separate-phase hydrocarbons (SPH) in 14 of the 16 groundwater monitoring wells on site (Figure 2). Monitoring well MW-1 was inaccessible and monitoring well MW-8 was dry.

Groundwater samples were collected from 11 monitoring wells. Samples were not collected from monitoring wells MW-8 (dry), MW-10 (SPH), MW-11 (SPH), and MW-12 (insufficient groundwater). Groundwater samples were submitted to Eurofins Lancaster Laboratories, Inc. in Lancaster, Pennsylvania for the following analyses:

- Total petroleum hydrocarbons (TPH) as gasoline-range organics (TPH-GRO) by Washington State Department of Ecology (Ecology) Method NWTPH-Gx;
- TPH as diesel-range organics (TPH-DRO) and TPH as heavy oil-range organics (TPH-HRO) by Ecology Method NWTPH-Dx extended with silica-gel cleanup; and
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX), and methyl tertiary butyl ether (MTBE) by United States Environmental Protection Agency Method 8021B.

A laboratory-supplied trip blank (QA) was submitted to the laboratory and analyzed for TPH-GRO, BTEX, and MTBE to provide quality assurance. Field data sheets are provided in the Gettler-Ryan groundwater monitoring and sampling data package (Attachment A).

FINDINGS

During this event, groundwater elevations ranged from 83.42 feet in monitoring well MW-9 to 79.60 feet in monitoring well MW-12, based on an arbitrary benchmark elevation of 100.00 feet (Figure 2). Groundwater elevations increased an average of 0.04 feet since the previous quarterly monitoring event in March 2012. Groundwater flows toward the east at a gradient ranging from approximately 0.013 to 0.033 feet per foot.

SPH were detected in monitoring wells MW-10 and MW-11 at a thickness of 0.20 for both wells.

The following analytes were detected at concentrations exceeding their respective Model Toxics Control Act Method A cleanup levels:

- TPH-GRO in monitoring wells MW-3, MW-4, MW-6, MW-9, MW-13, MW-14, and MW-16;
- TPH-DRO in monitoring wells MW-4, MW-9, and MW-13;
- Benzene in monitoring wells MW-3, MW-4, MW-9, MW-13, MW-14, and MW-16; and
- MTBE in monitoring wells MW-3, MW-9, MW-13, MW-14, and MW-16.

Historical groundwater elevation data, SPH thickness data, and laboratory analytical results are summarized in Table 1. The laboratory analysis report is provided as Attachment B.

DISCUSSION

Groundwater elevations and flow direction are consistent with historical data reported at the site.

Petroleum hydrocarbon concentrations slightly increased across the entire site. In addition, dissolved-phase hydrocarbons were detected at concentrations that exceed their respective MTCA Method A cleanup levels in monitoring well MW-14 for the first time since installation in 1990. Despite being downgradient from potential sources, the impacts observed in well MW-14 during the second quarter sampling event may be anomalous. Future sampling events will determine if these detections are an anomaly or a new trend.

Gettler-Ryan will continue to perform groundwater monitoring and sampling on a quarterly basis. The next groundwater monitoring and sampling event is scheduled for September 2012.

If you have any questions or comments, please contact me at (425) 482-3328 or via email at ottemanr@saic.com.

Sincerely,

SAIC Energy, Environment & Infrastructure, LLC



Ruth A. Otteman
Project Manager



Gabriel Cisneros, LG #2357
Geologist

Enclosures:

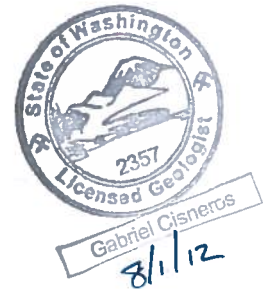
Figure 1 – Vicinity Map

Figure 2 – Potentiometric Map

Table 1 – Groundwater Monitoring Data and Analytical Results

Attachment A – Groundwater Monitoring and Sampling Data Package

Attachment B – Laboratory Analysis Report



cc: Project File

REPORT LIMITATIONS

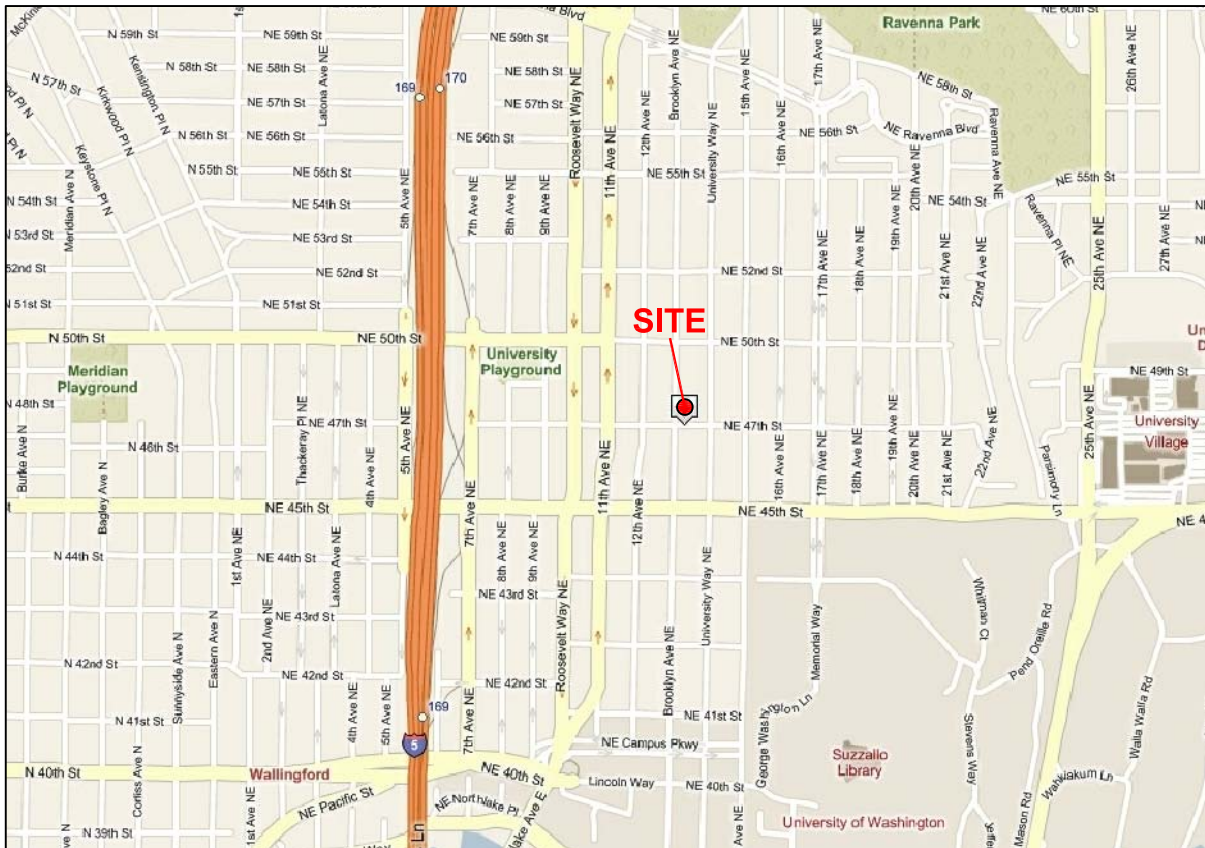
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Site history and background information provided in this technical document are based on sources that may include interviews with environmental regulatory agencies and property management personnel and a review of acquired environmental regulatory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



Maps Provided by Seattle.gov

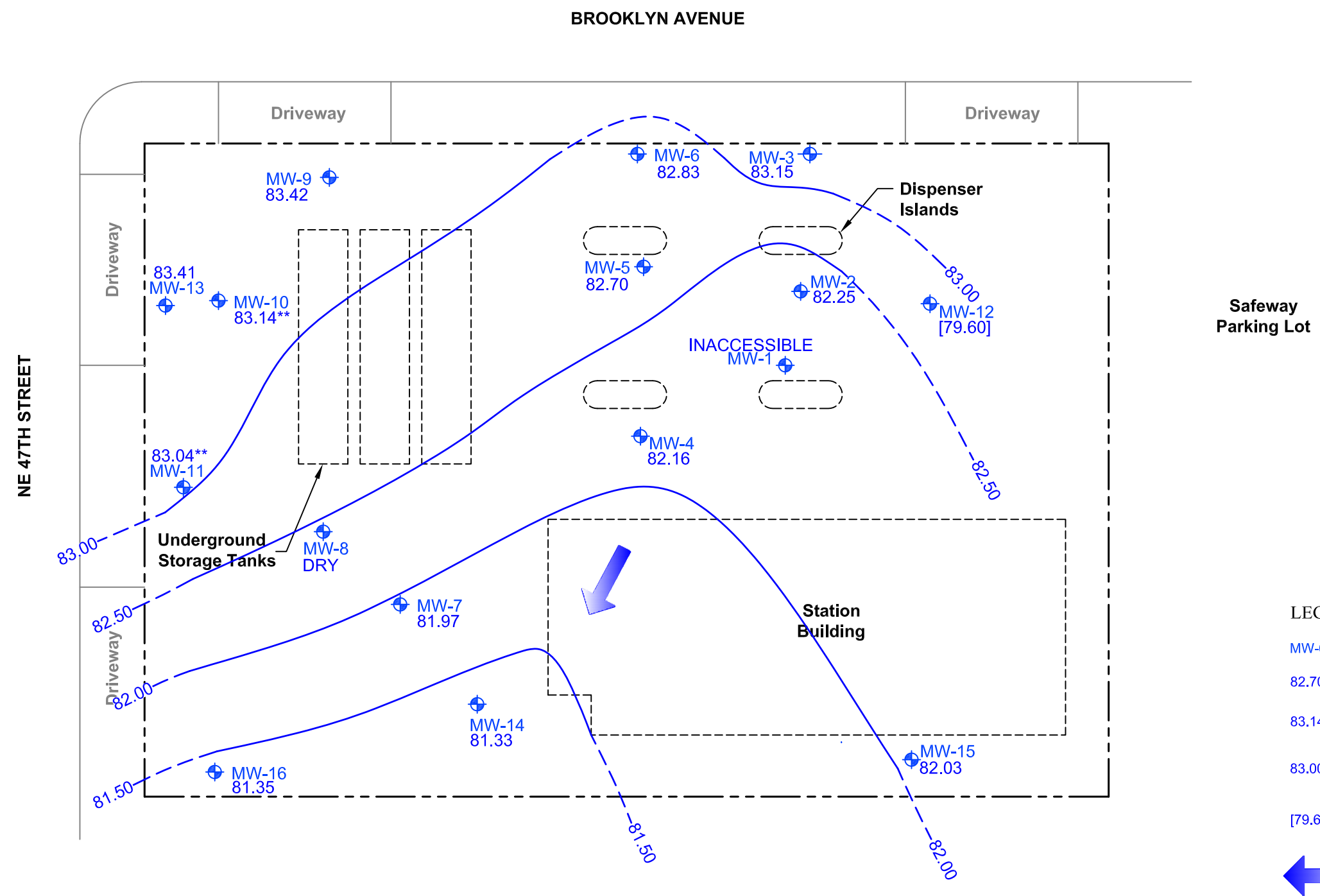
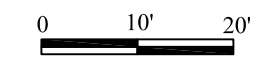
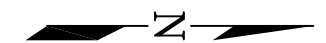





Chevron Service Station No. 9-0129
 4700 Brooklyn Avenue
 Seattle, Washington

FIGURE 1
 Vicinity Map

DATE: 09/07/2011

DRAWING: 90129_VM.dwg



- LEGEND**
- MW-6  Groundwater Monitoring Well
 - 82.70 Groundwater Elevation in Feet
 - 83.14** Groundwater Elevation Corrected for the Presence of Separate Phase Hydrocarbons (SPH)
 - 83.00  Groundwater Elevation Contour at a 0.5 Foot Interval (Dashed Where Inferred)
 - [79.60] Groundwater Elevation Not Used in Contour Map Due to Insufficient Water (in Feet)
 -  Approximate Groundwater Flow Direction at a Gradient of 0.013 to 0.033



Chevron Service Station No. 9-0129
4700 Brooklyn Avenue
Seattle, Washington

FIGURE 2
Potentiometric Map
June 2, 2012

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
CHEVRON SERVICE STATION NO. 9-0129
4700 Brooklyn Avenue
Seattle, Washington
Concentrations reported in µg/L unless otherwise noted

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE ³ (ft.)	THP- DRO	TPH- HRO	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead (mg/L)
MW-1															
12/17-18/09		--	INACCESSIBLE	--	--	--	--	--	--	--	--	--	--	--	--
3/17/10		--	INACCESSIBLE	--	--	--	--	--	--	--	--	--	--	--	--
6/22-23/10		--	INACCESSIBLE	--	--	--	--	--	--	--	--	--	--	--	--
9/13/10		--	INACCESSIBLE	--	--	--	--	--	--	--	--	--	--	--	--
12/20/10		--	OBSTRUCTION IN WELL		--	--	--	--	--	--	--	--	--	--	--
6/16/11		--	OBSTRUCTION IN WELL		--	--	--	--	--	--	--	--	--	--	--
9/22/11		--	INACCESSIBLE	--	--	--	--	--	--	--	--	--	--	--	--
1/14/12		--	INACCESSIBLE	--	--	--	--	--	--	--	--	--	--	--	--
3/31/12		--	INACCESSIBLE	--	--	--	--	--	--	--	--	--	--	--	--
6/2/12		--	INACCESSIBLE	--	--	--	--	--	--	--	--	--	--	--	--
MW-2															
1/22/90		100.05	--	--	--	--	--	--	25	1,100	1,090	161	1,120	--	--
4/12/91		100.05	--	--	--	--	--	--	3,100	100	540	140	260	--	--
6/28/91		100.05	--	--	--	--	--	--	7,000	300	1,100	500	1,300	--	--
9/18/91		100.05	--	--	--	--	--	--	4,800	150	49	280	660	--	--
12/3/91		100.05	--	--	--	--	--	--	9,000	290	1,300	540	1,500	--	--
2/25/92		100.05	--	--	--	--	--	--	1,600	42	170	120	310	--	--
5/15/92		100.05	--	--	--	--	--	--	410	19	40	40	70	--	--
7/31/92		100.05	--	16.45	--	83.60	--	--	--	--	--	--	--	--	--
8/18/92		100.05	--	16.55	--	83.50	--	--	10,000	160	890	750	1,600	--	--
9/25/92		100.05	--	16.90	--	83.15	--	--	--	--	--	--	--	--	--
2/23/93		100.05	--	16.68	--	83.37	--	--	750	14	22	62	100	--	--
5/12/93		100.05	--	16.25	--	83.80	--	--	ND	ND	ND	ND	ND	--	--
8/18/93		100.05	--	15.86	--	84.19	--	--	ND	ND	1.1	6.7	3.5	--	--
11/10/93		100.05	--	16.15	--	83.90	--	--	ND	ND	ND	2.5	ND	--	--
2/3/94		100.05	--	15.79	--	84.26	--	--	ND	ND	ND	4.5	0.5	--	--
4/26/94		100.05	--	15.42	--	84.63	--	--	ND	0.6	ND	9.9	3.4	--	--
7/20/94		100.05	--	16.75	--	83.30	--	--	ND	ND	ND	0.6	ND	--	--
10/18/94		100.05	--	18.16	--	81.89	--	--	180	4.3	4.0	24	13	--	--
2/1/95		100.05	--	18.45	--	81.60	--	--	360	7.1	6.7	35	39	--	--

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
CHEVRON SERVICE STATION NO. 9-0129
4700 Brooklyn Avenue
Seattle, Washington
Concentrations reported in µg/L unless otherwise noted

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE ³ (ft.)	THP- DRO	TPH- HRO	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead (mg/L)
MW-2 (cont)															
7/12/95		100.05	--	18.22	--	81.83	--	--	ND	ND	ND	ND	ND	--	--
1/4/96		100.05	--	17.81	--	82.24	--	--	ND	0.63	ND	ND	ND	--	--
1/7/97		100.05	--	--	--	--	--	--	--	--	--	--	--	--	--
2/12/98		100.05	--	--	--	--	--	--	--	--	--	--	--	--	--
10/15/04	NP	100.05	--	17.06	--	82.99	--	--	170	9.4	1.4	11	6.8	30/24⁶	--
NOT MONITORED/SAMPLED			--	--	--	--	--	--	--	--	--	--	--	--	--
12/17-18/09		100.05	--	16.24	--	83.81	32	<68	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
3/17/10		100.05	--	15.90	--	84.15	<31	<71	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
06/22-23/10		100.05	--	15.24	--	84.81	<30	<70	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
9/13/10		100.05	--	17.34	--	82.71	<29	72	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
12/20/10		100.05	--	17.58	--	82.47	<30	<70	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
6/16/11		100.05	--	17.48	--	82.57	51	<70	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
9/22/11		100.05	--	18.25	--	81.80	<29	<68	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
1/14/12		100.05	--	18.60	--	81.45	<29	<68	1,300	1.7	20	9.5	110	<2.5	--
3/31/12		100.05	--	19.70	--	80.35	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	
6/2/12		100.05	--	17.80	--	82.25	<29	<68	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
MW-3															
1/22/90		101.25	--	--	--	--	--	--	85,000	1,380	14,100	2,060	12,800	--	--
4/12/91		101.25	--	--	--	--	--	--	2,500	3.6	39	18	69	--	--
6/28/91		101.25	--	--	--	--	--	--	6,600	63	680	210	870	--	--
9/18/91		101.25	--	--	--	--	--	--	4,900	ND	82	86	300	--	--
12/3/91		101.25	--	--	--	--	--	--	17,000	170	2,200	710	2,800	--	--
2/25/92		101.25	--	--	--	--	--	--	7,900	25	150	210	920	--	--
5/15/92		101.25	--	--	--	--	--	--	9,800	90	1,100	260	1,300	--	--
7/31/92		101.25	--	15.81	--	85.44	--	--	--	--	--	--	--	--	--
8/18/92		101.25	--	15.94	--	85.31	--	--	24,000	290	4,200	7,200	3,800	--	--
9/25/92		101.25	--	16.55	--	84.70	--	--	--	--	--	--	--	--	--
2/24/93		101.25	--	16.12	--	85.13	--	--	8,400	48	440	210	1,300	--	--
5/12/93		101.25	--	15.60	--	85.65	--	--	4,700	130	840	120	600	--	--
8/18/93		101.25	--	15.60	--	85.65	--	--	7,300	130	1,000	240	1,100	--	--

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MW-3 (cont)																
11/10/93		101.25	--	16.11	--	85.14	--	--	14,000	260	1,900	470	2,400	--	--	
2/3/94		101.25	--	15.66	--	85.59	--	--	8,000	78	720	220	800	--	--	
4/26/94		101.25	--	14.91	--	86.34	--	--	2,900	9.6	7.9	34	160	--	--	
7/20/94		101.25	--	16.92	--	84.33	--	--	17,000	360	3,500	550	2,400	--	--	
10/18/94		101.25	--	18.68	--	82.57	--	--	46,000	230	6,700	1,200	6,100	--	--	
2/1/95		101.25	--	18.53	--	82.72	--	--	56,000	160	6,500	1,300	7,700	--	--	
7/12/95		101.25	--	18.30	--	82.95	--	--	83,000	230	12,000	2,200	14,000	--	--	
1/4/96		101.25	--	17.97	--	83.28	--	--	38,000	110	1,600	1,600	7,200	--	--	
1/7/97		101.25	--	17.10	--	84.15	--	--	25,000	80.8	476	1,150	3,660	--	--	
2/12/98		101.25	--	16.83	--	84.42	--	--	18,200	94.3	134	966	2,810	--	--	
5/31/99	NP	101.25	--	17.00	--	84.25	--	--	29,300	187	644	826	5,060	--	--	
6/8/00		101.25	--	17.82	--	83.43	--	--	43,300	380	838	1,620	9,840	ND	--	
1/30/01		101.25	--	18.49	--	82.76	--	--	31,300	380	306	1,380	3,240	--	--	
4/11/01		101.25	--	17.91	--	83.34	--	--	12,100	59.6	37.8	524	900	--	--	
7/28/01		101.25	--	17.66	--	83.59	--	--	40,900	561	1,960	1,720	10,400	--	--	
10/15/01		101.25	--	17.82	--	83.43	--	--	43,200	623	1,650	1,680	10,400	--	--	
1/5/02		101.25	--	16.42	--	84.83	--	--	5,060	39.6	14.1	261	362	--	--	
4/2/02	NP	101.25	--	16.54	--	84.71	--	--	35,000	280	820	910	6,200	<20	--	
7/11/02	NP	101.25	--	16.68	--	84.57	--	--	48,000	560	1,100	1,100	6,900	<20	--	
10/10/02	NP	101.25	--	17.22	--	84.03	--	--	50,000	630	1,100	1,300	8,400	<100	--	
1/10/03		101.25	INACCESSIBLE - CAR PARKED OVER WELL					--	--	--	--	--	--	--	--	--
4/21/03	NP	101.25	--	15.79	--	85.46	--	--	17,000	280	340	480	2,600	<20	--	
6/26/03	NP	101.25	--	16.15	--	85.10	--	--	34,000	470	750	940	6,200	<50	--	
10/14/03	NP	101.25	--	17.03	--	84.22	--	--	56,000	810	1,100	1,400	8,700	<50	--	
1/7/04	NP	101.25	--	16.41	--	84.84	--	--	13,000	160	150	400	1,300	<10	--	
4/21/04	NP	101.25	--	16.36	--	84.89	--	--	1,500	72	14	3.1	120	<10/<2 ⁶	--	
7/1/04	NP	101.25	14.45	16.90	--	84.35	--	--	26,000	540	410	750	3,700	<50	--	
10/15/04	NP	101.25	--	17.79	--	83.46	--	--	26,000	520	370	920	3,600	<100	--	
1/5/05	NP	101.25	--	17.76	--	83.49	--	--	9,000	180	47	590	95	<10	--	
8/4/05		101.25	--	17.71	--	83.54	--	--	--	--	--	--	--	--	--	

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MW-3 (cont)															
7/26/06		101.25	--	16.87	--	84.38	--	--	--	--	--	--	--	--	--
7/19/07		101.25	--	17.75	--	83.50	--	--	--	--	--	--	--	--	--
7/23/08		101.25	--	17.69	--	83.56	--	--	--	--	--	--	--	--	--
7/13/09		101.25	--	16.40	--	84.85	--	--	--	--	--	--	--	--	--
12/17-18/09		101.25	--	16.82	--	84.43	170	<70	880	25	13	76	22	<2.5	--
3/17/10		101.25	--	16.38	--	84.87	33	<71	75	4.2	1.3	1.9	<1.5	6.2	--
06/22-23/10		101.25	--	15.91	--	85.34	73	<69	690	15	18	30	67	<20	--
9/13/10		101.25	--	17.79	--	83.46	40	73	2,100	26	21	110	150	<20	--
12/20/10		101.25	--	17.81	--	83.44	200	86	2,300	34	15	220	25	85	--
6/16/11		101.25	--	17.68	--	83.57	540	77	2,200	55	22	170	110	<50	--
9/23/11		101.25	--	18.70	--	82.55	170	<68	8,100	210	130	690	590	79	--
1/14/12		101.25	--	19.00	--	82.25	100	<69	5,200	180	81	630	130	120	--
3/31/12		101.25	--	18.25	--	83.00	120	<76	1,700	30	6.5	160	14	73	--
6/2/12		101.25	--	18.10	--	83.15	110	93	4,200	68	48	340	170	73	--
MW-4															
4/12/91		100.01	--	--	--	--	--	--	ND	8,300	15,000	1,900	16,000	--	--
6/28/91		100.01	--	--	--	--	--	--	85,000	9,900	18,000	2,400	16,000	--	--
6/28/91 (D)		100.01	--	--	--	--	--	--	120,000	13,000	22,000	3,100	24,000	--	--
9/18/91		100.01	--	--	--	--	--	--	130,000	14,000	22,000	2,900	22,000	--	--
9/18/91		100.01	--	--	--	--	--	--	360,000	14,000	26,000	5,400	40,000	--	--
12/3/91		100.01	--	--	--	--	--	--	86,000	8,900	12,000	2,000	18,000	--	--
2/25/92		100.01	--	--	--	--	--	--	120,000	7,500	11,000	1,800	16,000	--	--
2/25/92		100.01	--	--	--	--	--	--	86,000	8,100	11,000	1,600	15,000	--	--
5/15/92		100.01	--	--	--	--	--	--	90,000	11,000	17,000	1,800	18,000	--	--
5/15/92		100.01	--	--	--	--	--	--	81,000	10,000	16,000	1,500	16,000	--	--
7/31/92		100.01	--	16.25	--	83.76	--	--	--	--	--	--	--	--	--
8/18/92		100.01	--	16.32	--	83.69	--	--	200,000	17,000	28,000	2,800	26,000	--	--
8/18/92		100.01	--	16.50	--	83.51	--	--	160,000	17,000	29,000	2,200	19,000	--	--
9/25/92		100.01	--	16.52	--	83.49	--	--	--	--	--	--	--	--	--
2/24/93		100.01	--	16.03	--	83.98	--	--	290,000	22,000	42,000	4,700	27,000	--	--

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
CHEVRON SERVICE STATION NO. 9-0129
4700 Brooklyn Avenue
Seattle, Washington
Concentrations reported in µg/L unless otherwise noted

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE ³ (ft.)	THP- DRO	TPH- HRO	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead (mg/L)	
MW-4 (cont)																
5/12/93		100.01	--	14.91	--	85.10	--	--	160,000	13,000	27,000	2,400	22,000	--	--	
8/18/93		100.01	--	16.35	--	83.66	--	--	150,000	10,000	22,000	2,500	18,000	--	--	
11/10/93		100.01	--	15.89	--	84.12	--	--	170,000	13,000	26,000	3,400	23,000	--	--	
2/3/94		100.01	--	15.53	--	84.48	--	--	190,000	9,800	21,000	2,400	15,000	--	--	
7/20/94		100.01	--	16.39	--	83.62	--	--	170,000	12,000	26,000	3,000	20,000	--	--	
10/18/94		100.01	--	18.03	0.04	82.01	--	--	--	--	--	--	--	--	--	
2/1/95		100.01	--	17.90	--	82.11	--	--	100,000	2,100	7,100	1,400	14,000	--	--	
7/12/95		100.01	--	17.60	--	82.41	--	--	970,000	5,800	9,600	3,300	42,000	--	--	
1/4/96		100.01	--	17.36	--	82.65	--	--	1,400,000	300	1,100	570	8,600	--	--	
1/7/97		100.01	--	17.60	--	82.41	--	--	--	--	--	--	--	--	--	
2/12/98		100.01	--	16.65	--	83.36	--	--	24,400	917	202	385	3,390	--	--	
5/31/99	NP	100.01	--	16.84	0.00	83.17	--	--	32,600	1,660	217	566	4,390	--	--	
6/8/00		100.01	--	17.50	<0.01	82.51	--	--	58,500	971	206	1,120	7,570	ND	--	
1/30/01		100.01	--	18.10	0.00	81.91	--	--	59,800	1,800	140	901	4,450	--	--	
4/11/01		100.01	--	17.91	0.00	82.10	--	--	56,800	1,450	105	984	4,560	--	--	
7/28/01		100.01	--	17.88	0.00	82.13	--	--	91,600	1,480	142	1,240	5,930	--/ <50 ⁶	--	
10/15/01		100.01	--	18.06	0.00	81.95	--	--	65,900	1,460	116	944	3,890	--/40.4 ⁶	--	
1/5/02		100.01	--	17.04	0.00	82.97	--	--	25,600	247	52.3	483	2,030	--/ <50.0 ⁶	--	
4/2/02		100.01	INACCESSIBLE - CAR PARKED OVER WELL					--	--	--	--	--	--	--	--	--
7/11/02	NP	100.01	--	16.88	0.00	83.13	--	--	34,000	1,000	59	450	1,400	130/110 ⁶	--	
10/10/02	NP	100.01	--	17.28	0.00	82.73	--	--	31,000	1,200	49	620	1,700	170/110 ⁶	--	
1/10/03		100.01	INACCESSIBLE - CAR PARKED OVER WELL					--	--	--	--	--	--	--	--	--
4/21/03	NP	100.01	--	15.78	0.00	84.23	--	--	11,000	120	6.0	220	520	<20	--	
6/26/03	NP	100.01	--	15.96	0.00	84.05	--	--	8,000	330	12	160	510	150/160 ⁶	--	
10/14/03	NP	100.01	--	16.56	0.00	83.45	--	--	13,000	550	17	280	690	150/140 ⁶	--	
1/7/04	NP	100.01	--	16.02	0.00	83.99	--	--	12,000	370	8.9	24	650	62/47 ⁶	--	
4/21/04	NP	100.01	--	15.83	0.00	84.18	--	--	1,300	69	0.7	3.2	24	78/78 ⁶	--	
7/1/04	NP	100.01	--	16.02	0.00	83.99	--	--	980	90	0.7	3.9	15	67/70 ⁶	--	
10/15/04	NP	100.01	--	16.41	0.00	83.60	--	--	9,900	530	9.0	240	510	140/110 ⁶	--	
1/5/05	NP	100.01	--	16.14	0.00	83.87	--	--	14,000	630	9.8	330	660	130/110 ⁶	--	

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4700 Brooklyn Avenue
Seattle, Washington
Concentrations reported in µg/L unless otherwise noted

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE ³ (ft.)	THP- DRO	TPH- HRO	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead (mg/L)
MW-4 (cont)															
8/4/05	NP	100.01	--	16.36	0.00	83.65	--	--	9,600	420	6.3	260	370	99	--
7/26/06	NP	100.01	--	15.98	0.00	84.03	--	--	330	21	<0.5	<0.5	2.5	12	--
7/19/07	NP	100.01	--	16.30	0.00	83.71	--	--	350	13	<0.5	<0.5	2.6	6.3	--
7/23/08	NP	100.01	--	16.36	0.00	83.65	--	--	1,700	99	1.9	7	41	8.5	--
7/13/09	NP	100.01	--	15.07	0.00	84.94	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
12/17-18/09		100.01	--	15.16	0.00	84.85	3,300	<680	3,300	19	0.9	1.9	6.2	<2.5	--
3/17/10		100.01	--	14.95	0.00	85.06	20,000	4,600	930	10	1.9	1.4	2.2	3.5	--
06/22-23/10		100.01	--	14.21	0.00	85.80	120	<68	140	3.8	<2.0	2.3	1.9	<2.5	--
9/13/10		100.01	--	7.31	0.00	92.70	2,900	400	3,400	130	1.3	58	34	8.1	--
12/20/10		100.01	--	17.69	0.00	82.32	130,000	31,000	2,200	150	5.6	28	18	41	--
6/16/11		100.01	--	17.60	0.00	82.41	16,000	2,300	3,000	140	5.1	21	<15	15	--
9/23/11		100.01	--	18.30	0.00	81.71	2,800	<330	3,700	290	<10	64	<50	16	--
1/14/12		100.01	--	18.65	0.00	81.36	7,900	930	2,900	170	4.6	69	69	19	--
3/31/12		100.01	--	18.05	0.00	81.96	6,000	800	1,500	44	3.7	25	15	15	--
6/2/12		100.01	--	17.85	0.00	82.16	510	160	1,800	79	3.1	30	20	14	--
MW-5															
2/19/90		100.75	--	--	--	--	--	--	ND	ND	5.0	ND	22	--	--
4/12/91		100.75	--	--	--	--	--	--	ND	ND	ND	ND	ND	--	--
6/28/91		100.75	--	--	--	--	--	--	89	ND	1.9	0.96	6.1	--	--
9/18/91		100.75	--	--	--	--	--	--	68	ND	ND	1.1	ND	--	--
12/3/91		100.75	--	--	--	--	--	--	ND	ND	ND	ND	ND	--	--
2/25/92		100.75	--	--	--	--	--	--	92	ND	ND	15	ND	--	--
5/15/92		100.75	--	--	--	--	--	--	ND	ND	ND	ND	ND	--	--
7/31/92		100.75	--	16.02	--	84.73	--	--	--	--	--	--	--	--	--
8/18/92		100.75	--	16.09	--	84.66	--	--	ND	ND	ND	ND	ND	--	--
9/25/92		100.75	--	16.42	--	84.33	--	--	--	--	--	--	--	--	--
2/23/93		100.75	--	--	--	--	--	--	--	--	--	--	--	--	--
5/12/93		100.75	--	--	--	--	--	--	--	--	--	--	--	--	--
8/18/93		100.75	--	--	--	--	--	--	--	--	--	--	--	--	--
11/10/93		100.75	--	--	--	--	--	--	--	--	--	--	--	--	--

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Seattle, Washington
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Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE ³ (ft.)	THP- DRO	TPH- HRO	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead (mg/L)
MW-5 (cont)															
2/3/94		100.75	--	--	--	--	--	--	--	--	--	--	--	--	--
4/26/94		100.75	--	--	--	--	--	--	--	--	--	--	--	--	--
7/20/94		100.75	--	--	--	--	--	--	--	--	--	--	--	--	--
10/18/94		100.75	--	--	--	--	--	--	--	--	--	--	--	--	--
2/1/95		100.75	--	--	--	--	--	--	--	--	--	--	--	--	--
7/12/95		100.75	--	--	--	--	--	--	--	--	--	--	--	--	--
1/4/96		100.75	--	--	--	--	--	--	--	--	--	--	--	--	--
1/7/97		100.75	--	--	--	--	--	--	--	--	--	--	--	--	--
2/12/98		100.75	--	--	--	--	--	--	--	--	--	--	--	--	--
NOT MONITORED/SAMPLED			--	--	--	--	--	--	--	--	--	--	--	--	--
12/17-18/09		100.75	--	16.09	--	84.66	50	<68	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
3/17/10		100.75	--	15.76	--	84.99	<30	<70	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
06/22-23/10		100.75	--	15.11	--	85.64	<30	<69	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
9/13/10		100.75	--	17.63	--	83.12	<31	<71	52	<0.5	<0.5	<0.5	<1.5	<2.5	--
12/20/10		100.75	--	17.75	--	83.00	<31	110	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
6/16/11		100.75	--	17.73	--	83.02	<30	<69	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
9/22/11		100.75	--	18.60	--	82.15	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
1/14/12		100.75	--	18.90	--	81.85	<29	<67	52	<0.5	1.3	0.7	7.5	<2.5	--
3/31/12		100.75	--	18.20	--	82.55	<31	<73	<50	<0.5	0.6	<0.5	1.9	<2.5	--
6/2/12		100.75	--	18.05	--	82.70	<29	<68	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
MW-6															
2/19/90		100.93	--	--	--	--	--	--	38,200	ND	74	259	2,430	--	--
4/12/91		100.93	--	--	--	--	--	--	ND	ND	1.8	4.8	53	--	--
6/28/91		100.93	--	--	--	--	--	--	390	1,100	5,300	860	47,000	--	--
9/18/91		100.93	--	--	--	--	--	--	1,600	3.7	ND	15	130	--	--
12/3/91		100.93	--	--	--	--	--	--	2,000	3.7	1.8	19	130	--	--
2/25/92		100.93	--	--	--	--	--	--	4,100	8.9	2.9	44	320	--	--
5/15/92		100.93	--	--	--	--	--	--	ND	ND	ND	ND	8.0	--	--
7/31/92		100.93	--	15.86	--	85.07	--	--	--	--	--	--	--	--	--
8/18/92		100.93	--	15.95	--	84.98	--	--	3,300	3.7	0.84	17	110	--	--

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4700 Brooklyn Avenue
Seattle, Washington
Concentrations reported in µg/L unless otherwise noted

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE ³ (ft.)	THP- DRO	TPH- HRO	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead (mg/L)
MW-6 (cont)															
9/25/92		100.93	--	16.26	--	84.67	--	--	--	--	--	--	--	--	--
2/23/93		100.93	--	16.17	--	84.76	--	--	1,900	ND	0.8	5.2	67	--	--
5/12/93		100.93	--	15.63	--	85.30	--	--	1,600	2.1	1.2	8.5	74	--	--
8/18/93		100.93	--	15.37	--	85.56	--	--	ND	ND	ND	ND	1.0	--	--
11/10/93		100.93	--	15.83	--	85.10	--	--	1,300	2.3	2.0	2.9	36	--	--
2/3/94		100.93	--	15.45	--	85.48	--	--	740	2.8	5.4	2.6	23	--	--
4/26/94		100.93	--	15.19	--	85.74	--	--	300	ND	ND	ND	2.4	--	--
7/20/94		100.93	--	16.94	--	83.99	--	--	2,500	ND	1.1	5.6	38	--	--
10/18/94		100.93	--	18.68	--	82.25	--	--	440	ND	1.0	1.3	2.5	--	--
2/1/95		100.93	DRY	--	--	--	--	--	--	--	--	--	--	--	--
7/12/95		100.93	DRY	--	--	--	--	--	--	--	--	--	--	--	--
1/4/96		100.93	--	17.94	--	82.99	--	--	9,400	11	90	120	770	--	--
1/7/97		100.93	--	16.90	--	84.03	--	--	1,440	2.85	5.05	10.4	56.7	--	--
2/12/98		100.93	--	16.93	--	84.00	--	--	308	6.43	1.63	ND	3.53	--	--
5/31/99	NP	100.93	--	17.17	--	83.76	--	--	1,660	116	6.98	2.21	37.5	--	--
6/8/00		100.93	--	17.90	--	83.03	--	--	1,970	61.9	6.96	23.8	122	ND/ND	--
1/30/01		100.93	--	18.51	--	82.42	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--
4/11/01		100.93	--	18.21	--	82.72	--	--	10,800	190	20.0	45.0	262	--	--
7/28/01		100.93	--	18.09	--	82.84	--	--	4,600	264	7.94	23.1	91.2	--	--
10/15/01		100.93	--	18.28	--	82.65	--	--	6,890	267	13.8	45.9	203	--	--
1/5/02		100.93	--	17.09	--	83.84	--	--	3,500	213	7.25	22.9	109	--	--
NOT MONITORED/SAMPLED			--	--	--	--	--	--	--	--	--	--	--	--	--
12/17-18/09		100.93	--	16.03	--	84.90	99	<72	460	<0.5	<0.5	2.2	15	<2.5	--
3/17/10		100.93	--	15.69	--	85.24	56	<71	590	0.9	0.5	2.2	17	<2.5	--
06/22-23/10		100.93	--	14.99	--	85.94	31	<70	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
9/13/10		100.93	--	17.64	--	83.29	240	<71	980	1.9	1.1	2.3	23	<2.5	--
12/20/10		100.93	--	17.74	--	83.19	350	<72	1,300	3.5	1.8	4.8	37	2.8	--
6/16/11		100.93	--	17.75	--	83.18	260	160	600	1.5	1	2.7	20	<2.5	--
9/22/11		100.93	--	18.65	--	82.28	OBSTRUCTION IN WELL AT 19 FT				--	--	--	--	
1/14/12		100.93	--	21.10	--	79.83	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--

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Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE ³ (ft.)	THP- DRO	TPH- HRO	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead (mg/L)
MW-6 (cont)															
3/31/12		100.93	--	18.30	--	82.63	<29	<68	560	1.3	1.2	1.3	9.4	<2.5	--
6/2/12		100.93	--	18.10	--	82.83	<29	<67	1,300	1.8	1.3	3.1	18	<2.5	--
MW-7															
2/19/90		99.07	--	--	--	--	--	--	526,000	3,280	8,170	1,210	8,010	--	--
6/28/91		99.07	--	--	--	--	--	--	30,000	760	950	4,600	8,500	--	--
9/18/91		99.07	--	--	--	--	--	--	11,000	280	970	560	2,800	--	--
12/3/91		99.07	--	--	--	--	--	--	9,400	250	330	630	2,600	--	--
2/25/92		99.07	--	--	--	--	--	--	3,800	210	260	510	2,200	--	--
5/15/92		99.07	--	--	--	--	--	--	9,000	170	35	630	2,900	--	--
8/18/92		99.07	--	16.90	--	--	--	--	28,000	190	75	100	560	--	--
9/25/92		99.07	--	17.05	--	82.02	--	--	--	--	--	--	--	--	--
2/23/93		99.07	--	16.81	--	82.26	--	--	32,000	160	1,500	800	6,300	--	--
5/12/93		99.07	--	16.32	--	82.75	--	--	24,000	160	940	890	5,200	--	--
8/18/93		99.07	--	16.39	--	82.68	--	--	27,000	79	470	750	6,500	--	--
11/10/93		99.07	--	16.94	--	82.13	--	--	14,000	36	60	400	3,800	--	--
2/3/94		99.07	--	16.71	--	82.36	--	--	3,800	7.5	8.3	130	680	--	--
4/26/94		99.07	--	15.72	--	83.35	--	--	10,000	48	190	480	1,900	--	--
7/20/94		99.07	--	16.03	--	83.04	--	--	14,000	26	280	570	2,900	--	--
10/18/94		99.07	--	17.49	--	81.58	--	--	6,200	11	13	230	980	--	--
2/1/95		99.07	--	17.58	--	81.49	--	--	510	9.5	1.3	51	22	--	--
7/12/95		99.07	--	17.24	--	81.83	--	--	8,600	30	25	270	1,300	--	--
1/4/96		99.07	--	--	--	--	--	--	--	--	--	--	--	--	--
1/7/97		99.07	--	--	--	--	--	--	--	--	--	--	--	--	--
2/12/98		99.07	--	--	--	--	--	--	--	--	--	--	--	--	--
5/31/99		99.07	--	--	--	--	--	--	--	--	--	--	--	--	--
6/8/00		99.07	--	17.11	--	--	--	--	321	3.15	ND	63.6	5.66	ND	--
NOT MONITORED/SAMPLED			--	--	--	--	--	--	--	--	--	--	--	--	--
12/17-18/09		99.07	--	13.48	--	85.59	86	<68	330	0.7	<0.5	5.5	7.6	<2.5	--
3/17/10		99.07	--	13.35	--	85.72	33	73	670	29	1.1	7.4	9.9	<2.5	--

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Seattle, Washington
Concentrations reported in µg/L unless otherwise noted

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE ³ (ft.)	THP- DRO	TPH- HRO	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead (mg/L)
MW-7 (cont)															
06/22-23/10		99.07	--	13.11	--	85.96	<31	<72	<50	1	<0.5	0.8	<1.5	<2.5	--
9/13/10		99.07	--	16.45	--	82.62	120	97	960	4	<0.5	9.6	8.2	<2.5	--
12/20/10		99.07	--	17.12	--	81.95	54	<75	170	2.6	<0.5	3.5	<1.5	<2.5	--
6/16/11		99.07	--	16.77	--	82.30	160	430	180	1.5	<0.5	0.8	<1.5	<2.5	--
9/23/11		99.07	--	17.58	--	81.49	100	440	210	2.3	<0.5	4.2	<1.5	<2.5	--
1/14/12		99.07	--	17.80	--	81.27	33	130	130	1.5	<0.5	3.2	<1.5	<2.5	--
3/31/12		99.07	--	17.50	--	81.57	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
6/2/12		99.07	--	17.10	--	81.97	44	170	100	1.3	<0.5	1.1	<1.5	<2.5	--
MW-8															
4/11/01		--	DRY	--	--	--	--	--	--	--	--	--	--	--	--
NOT MONITORED/SAMPLED			--	--	--	--	--	--	--	--	--	--	--	--	--
12/17-18/09		--	DRY	--	--	--	--	--	--	--	--	--	--	--	--
3/17/10		--	DRY	--	--	--	--	--	--	--	--	--	--	--	--
06/22-23/10		--	DRY	--	--	--	--	--	--	--	--	--	--	--	--
9/13/10		--	DRY	--	--	--	--	--	--	--	--	--	--	--	--
12/20/10		--	DRY	--	--	--	--	--	--	--	--	--	--	--	--
6/16/11		--	DRY	--	--	--	--	--	--	--	--	--	--	--	--
9/22/11		--	DRY	--	--	--	--	--	--	--	--	--	--	--	--
1/14/12		--	DRY	--	--	--	--	--	--	--	--	--	--	--	--
3/31/12		--	DRY	--	--	--	--	--	--	--	--	--	--	--	--
6/2/12		--	DRY	--	--	--	--	--	--	--	--	--	--	--	--
MW-9															
2/19/90		100.02	--	--	--	--	--	--	99,600	181	489	494	4,290	--	--
4/12/91		100.02	--	--	--	--	--	--	ND	ND	ND	180	930	--	--
6/28/91		100.02	--	--	--	--	--	--	10,000	100	160	570	1,800	--	--
9/18/91		100.02	--	--	--	--	--	--	15,000	150	260	720	3,200	--	--
12/3/91		100.02	--	--	--	--	--	--	16,000	140	290	780	3,400	--	--
2/25/92		100.02	--	--	--	--	--	--	9,500	120	220	640	2,900	--	--
5/15/92		100.02	--	--	--	--	--	--	18,000	120	210	660	3,300	--	--

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4700 Brooklyn Avenue
Seattle, Washington
Concentrations reported in µg/L unless otherwise noted

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE ³ (ft.)	THP- DRO	TPH- HRO	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead (mg/L)
MW-9 (cont)															
7/31/92		100.02	--	15.86	--	84.16	--	--	--	--	--	--	--	--	--
8/18/92		100.02	--	15.93	--	84.09	--	--	16,000	72	120	560	1,900	--	--
9/25/92		100.02	--	16.14	--	83.88	--	--	--	--	--	--	--	--	--
2/23/93		100.02	--	15.87	--	84.15	--	--	9,000	45	120	390	1,100	--	--
5/12/93		100.02	--	15.44	--	84.58	--	--	11,000	34	58	280	910	--	--
8/18/93		100.02	--	15.21	--	84.81	--	--	3,100	22	47	94	500	--	--
11/10/93		100.02	--	15.85	--	84.17	--	--	10,000	67	150	470	1,700	--	--
2/3/94		100.02	--	15.63	--	84.39	--	--	26,000	85	340	910	3,600	--	--
4/26/94		100.02	--	14.98	--	85.04	--	--	12,000	37	73	200	750	--	--
7/20/94		100.02	--	15.91	--	84.11	--	--	15,000	37	110	360	1,600	--	--
10/18/94		100.02	--	16.91	--	83.11	--	--	28,000	110	350	970	2,000	--	--
2/1/95		100.02	--	16.86	--	83.16	--	--	21,000	47	230	570	2,600	--	--
7/12/95		100.02	--	16.50	--	83.52	--	--	17,000	69	130	480	2,000	--	--
1/4/96		100.02	--	16.00	--	84.02	--	--	39,000	46	140	420	2,600	--	--
1/7/97		100.02	15.12	15.12	Sheen	84.90	--	--	31,600	47.7	ND	25.2	112	--	--
2/12/98		100.02	--	15.87	--	84.15	--	--	ND	ND	ND	ND	ND	--	--
5/31/99	NP	100.02	--	16.03	0.00	83.99	--	--	ND	ND	ND	ND	ND	--	--
6/8/00		100.02	--	16.74	0.00	83.28	--	--	--	--	--	--	--	--	--
1/30/01		100.02	--	17.40	0.00	82.62	--	--	307,000	ND	ND	ND	ND	--	--
4/11/01		100.02	--	17.15	0.00	82.87	--	--	43,000	<50	289	911	5,530	--	--
7/28/01		100.02	--	17.18	0.00	82.84	--	--	27,800	35.9	290	1,110	5,490	--	--
10/15/01		100.02	--	17.54	0.00	82.48	--	--	84,100	<25.0	99.3	262	2,290	--	--
1/5/02		100.02	--	16.12	0.00	83.90	--	--	9,020	<5.00	10.0	103	850	--	--
NOT MONITORED/SAMPLED			--	--	--	--	--	--	--	--	--	--	--	--	--
12/17-18/09		100.02	--	10.88	0.00	89.14	<29	<68	<50	130	3.4	0.7	2.2	<2.5	--
3/17/10		100.02	--	10.96	0.00	89.06	78	170	13,000	610	1,600	280	1,500	73	--
06/22-23/10		100.02	--	12.00	0.00	88.02	310	<70	12,000	11	15	150	1,100	<10	--
9/13/10		100.02	--	16.27	0.00	83.75	990	800	2,900	53	23	61	110	<10	--
12/20/10		100.02	--	16.45	0.00	83.57	150	<74	4,000	51	13	79	170	8.8	--
6/16/11		100.02	--	16.35	0.00	83.67	240	190	1,600	41	4.4	53	59	<10	--

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4700 Brooklyn Avenue
Seattle, Washington
Concentrations reported in µg/L unless otherwise noted

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE ³ (ft.)	THP- DRO	TPH- HRO	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead (mg/L)
MW-9 (cont)															
9/23/11		100.02	--	17.25	0.00	82.77	200	<70	4,200	88	12	180	290	<20	--
1/14/12		100.02	--	17.55	0.00	82.47	330	<68	5,800	120	17	180	260	36	--
3/31/12		100.02	--	16.85	0.00	83.17	1,300	91	7,900	140	14	220	320	24	--
6/2/12		100.02	--	16.60	0.00	83.42	1,100	240	8,900	120	16	210	300	26	--
MW-10															
2/19/90		99.18	--	--	--	--	--	--	89,400	431	136	505	1,990	--	--
4/12/91		99.18	--	--	--	--	--	--	5,000	200	56	350	1,200	--	--
6/28/91		99.18	--	--	--	--	--	--	5,700	250	48	330	910	--	--
9/18/91		99.18	--	--	--	--	--	--	6,200	230	370	300	580	--	--
12/3/91		99.18	--	--	--	--	--	--	560	210	59	290	870	--	--
2/25/92		99.18	--	--	--	--	--	--	5,000	160	27	200	730	--	--
5/15/92		99.18	--	--	--	--	--	--	5,200	190	37	290	710	--	--
7/31/92		99.18	--	15.30	--	83.88	--	--	--	--	--	--	--	--	--
8/18/92		99.18	--	15.81	--	83.37	--	--	5,900	180	25	180	550	--	--
9/25/92		99.18	--	15.97	--	83.21	--	--	--	--	--	--	--	--	--
2/23/93		99.18	--	--	--	--	--	--	--	--	--	--	--	--	--
5/12/93		99.18	--	--	--	--	--	--	--	--	--	--	--	--	--
8/18/93		99.18	--	--	--	--	--	--	--	--	--	--	--	--	--
11/10/93		99.18	--	--	--	--	--	--	--	--	--	--	--	--	--
2/3/94		99.18	--	--	--	--	--	--	--	--	--	--	--	--	--
4/26/94		99.18	--	--	--	--	--	--	--	--	--	--	--	--	--
7/20/94		99.18	--	--	--	--	--	--	--	--	--	--	--	--	--
10/18/94		99.18	--	--	--	--	--	--	--	--	--	--	--	--	--
2/1/95		99.18	--	15.98	--	83.20	--	--	--	--	--	--	--	--	--
7/12/95		99.18	--	--	--	--	--	--	--	--	--	--	--	--	--
1/4/96		99.18	--	--	--	--	--	--	--	--	--	--	--	--	--
1/7/97		99.18	--	--	--	--	--	--	--	--	--	--	--	--	--
2/12/98		99.18	--	--	--	--	--	--	--	--	--	--	--	--	--
5/19/03		99.18	14.81	14.91	0.10	84.35	--	--	--	--	--	--	--	--	--
6/26/03		99.18	15.21	15.42	0.21	83.93	--	--	--	--	--	--	--	--	--

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Seattle, Washington
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Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE ³ (ft.)	THP- DRO	TPH- HRO	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead (mg/L)
MW-10 (cont)															
8/18/03		99.18	16.04	16.23	0.19	83.10	--	--	--	--	--	--	--	--	--
9/6/03		99.18	16.02	16.19	0.17	83.13	--	--	--	--	--	--	--	--	--
10/14/03		99.18	16.10	16.39	0.29	83.02	--	--	--	--	--	--	--	--	--
11/17/03		99.18	15.88	15.95	0.07	83.29	--	--	--	--	--	--	--	--	--
12/8/03		99.18	16.22	16.46	0.24	82.91	--	--	--	--	--	--	--	--	--
1/7/04		99.18	15.37	15.61	0.24	83.76	--	--	--	--	--	--	--	--	--
2/26/04		99.18	14.93	15.05	0.12	84.23	--	--	--	--	--	--	--	--	--
3/18/04		99.18	14.82	15.04	0.22	84.32	--	--	--	--	--	--	--	--	--
4/21/04		99.18	14.35	14.45	0.10	84.81	--	--	--	--	--	--	--	--	--
5/17/04		99.18	14.30	14.41	0.11	84.86	--	--	--	--	--	--	--	--	--
6/2/04		99.18	14.87	14.96	0.09	84.29	--	--	--	--	--	--	--	--	--
7/1/04		99.18	15.02	15.10	0.08	84.14	--	--	--	--	--	--	--	--	--
8/16/04		99.18	14.93	15.02	0.09	84.23	--	--	--	--	--	--	--	--	--
9/24/04		99.18	16.22	16.31	0.09	82.94	--	--	--	--	--	--	--	--	--
10/15/04		99.18	15.55	15.71	0.26	83.68	--	--	--	--	--	--	--	--	--
10/26/04		99.18	16.32	16.40	0.08	82.84	--	--	--	--	--	--	--	--	--
12/2/04		99.18	16.32	16.40	0.08	82.84	--	--	--	--	--	--	--	--	--
1/5/05		99.18	14.95	14.99	0.04	84.22	--	--	--	--	--	--	--	--	--
2/1/05		99.18	14.57	14.64	0.07	84.60	--	--	--	--	--	--	--	--	--
8/4/05		99.18	14.42	14.46	0.04	84.75	--	--	--	--	--	--	--	--	--
4/5/06		99.18	--	--	--	--	--	--	--	--	--	--	--	--	--
07/26/06		99.18	--	13.42	0.00	85.76	--	--	--	--	--	--	--	--	--
7/19/07		99.18	--	12.82	0.00	86.36	--	--	--	--	--	--	--	--	--
7/23/08		99.18	--	14.54	0.00	84.64	--	--	--	--	--	--	--	--	--
7/13/09		99.18	--	12.01	0.00	87.17	--	--	--	--	--	--	--	--	--
12/17-18/09		99.18	--	11.29	0.00	87.89	310	<69	2,300	230	28	2.9	9.3	<2.5	--
3/17/10		99.18	--	11.36	0.00	87.82	2,200	200	88,000	4,900	16,000	1,200	7,600	<500	--
06/22-23/10		99.18	--	11.79	0.00	87.39	1,500	<70	56,000	17	2,000	1,300	11,000	<63	--
9/13/10		99.18	--	15.71	0.00	83.47	30,000	<1,700	37,000	490	1,400	990	5,000	<13	--
12/20/10		99.18	--	15.92	0.00	83.26	9,900	<1,400	23,000	330	650	620	2,900	<25	--

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Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE ³ (ft.)	THP- DRO	TPH- HRO	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead (mg/L)
MW-10 (cont)															
6/16/11		99.18	--	15.79	0.00	83.39	3,800	<690	11,000	230	30	370	630	<20	--
9/23/11		99.18	--	16.70	0.00	82.48	14,000	<1,300	7,700	250	25	380	460	<50	--
1/14/12		99.18	16.90	17.20	0.30	82.22	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	
3/31/12		99.18	--	16.35	0.00	82.83	9,800	<79	11,000	190	18	330	450	29	--
6/2/12		99.18	16.00	16.20	0.20	83.14	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	
MW-11															
2/19/90		98.43	--	--	--	--	--	--	244,000	342	5,430	2,150	9,020	--	--
4/12/91		98.43	--	--	--	--	--	--	ND	ND	3,300	1,700	9,500	--	--
6/28/91		98.43	--	--	--	--	--	--	45,000	220	5,400	2,200	11,000	--	--
9/18/91		98.43	--	--	--	--	--	--	58,000	210	4,900	2,000	9,900	--	--
12/3/91		98.43	--	--	--	--	--	--	41,000	210	5,100	2,000	9,700	--	--
2/25/92		98.43	--	--	--	--	--	--	47,000	190	4,500	1,700	8,400	--	--
5/15/92		98.43	--	--	--	--	--	--	34,000	61	420	750	4,700	--	--
7/31/92		98.43	--	15.18	--	83.25	--	--	--	--	--	--	--	--	--
8/18/92		98.43	--	15.31	--	83.12	--	--	70,000	210	6,700	210	1,100	--	--
9/25/92		98.43	--	15.00	--	83.43	--	--	--	--	--	--	--	--	--
2/23/93		98.43	--	15.15	--	83.28	--	--	52,000	150	4,100	1,700	7,900	--	--
5/12/93		98.43	--	14.76	--	83.67	--	--	57,000	200	5,200	2,000	9,400	--	--
8/18/93		98.43	--	14.79	--	83.64	--	--	52,000	130	4,100	1,800	8,300	--	--
11/10/93		98.43	--	15.19	--	83.24	--	--	51,000	160	3,500	1,800	6,300	--	--
2/3/94		98.43	--	14.81	--	83.62	--	--	33,000	74	1,900	880	3,300	--	--
4/26/94		98.43	--	14.11	--	84.32	--	--	26,000	39	270	170	2,600	--	--
7/20/94		98.43	--	14.51	--	83.92	--	--	18,000	ND	45	85	540	--	--
10/18/94		98.43	--	15.32	--	83.11	--	--	38,000	130	3,300	830	4,200	--	--
2/1/95		98.43	--	15.73	--	82.70	--	--	100,000	170	3,600	2,000	11,000	--	--
7/12/95		98.43	--	13.98	--	84.45	--	--	16,000	22	260	200	1,200	--	--
1/4/96		98.43	--	14.75	--	83.68	--	--	52,000	170	4,700	1,500	7,800	--	--
1/7/97		98.43	14.00	14.00	Sheen	84.43	--	--	37,200	74.9	2,390	1,100	5,760	--	--
2/12/98		98.43	--	14.85	--	83.58	--	--	13,100	52.4	184	374	2,150	--	--
5/31/99	NP	98.43	--	14.92	0.00	83.51	--	--	17,000	41.3	137	40.8	2,540	--	--

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Seattle, Washington
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Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE ³ (ft.)	THP- DRO	TPH- HRO	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead (mg/L)	
MW-11 (cont)																
6/8/00		98.43	15.56	15.56	Sheen	82.87	--	--	51,700	215	4,980	1,850	8,960	ND	--	
1/30/01		98.43	16.75	16.30	0.45	81.59	--	--	NOT SAMPLED DUE TO THE PRESENCE OF SPH						--	--
4/11/01		98.43	16.88	15.87	1.01	81.35	--	--	NOT SAMPLED DUE TO THE PRESENCE OF SPH						--	--
7/28/01		98.43	16.19	16.03	0.16	82.21	--	--	NOT SAMPLED DUE TO THE PRESENCE OF SPH						--	--
10/15/01		98.43	16.39	15.68	0.71	81.90	--	--	NOT SAMPLED DUE TO THE PRESENCE OF SPH						--	--
1/5/02		98.43	15.60	15.49	0.11	82.81	--	--	NOT SAMPLED DUE TO THE PRESENCE OF SPH						--	--
4/2/02	NP	98.43	--	15.32	0.00	83.11	--	--	71,000	130	5,100	2,000	11,000	<20	--	
6/26/02		98.43	15.69	15.78	0.09	82.72	--	--	--	--	--	--	--	--	--	
7/11/02		98.43	15.84	15.90	0.06	82.58	--	--	NOT SAMPLED DUE TO THE PRESENCE OF SPH						--	--
8/29/02		98.43	16.21	16.29	0.08	82.20	--	--	--	--	--	--	--	--	--	
9/7/02		98.43	15.91	15.96	0.05	82.51	--	--	--	--	--	--	--	--	--	
10/10/02		98.43	16.20	16.94	0.74	82.08	--	--	NOT SAMPLED DUE TO THE PRESENCE OF SPH						--	--
11/22/02		98.43	15.88	15.94	0.06	82.54	--	--	--	--	--	--	--	--	--	
12/11/02		98.43	15.77	15.89	0.12	82.64	--	--	--	--	--	--	--	--	--	
1/10/03		98.43	15.98	17.61	1.63	82.12	--	--	NOT SAMPLED DUE TO THE PRESENCE OF SPH						--	--
2/13/03		98.43	15.89	16.93	1.04	82.33	--	--	--	--	--	--	--	--	--	
3/5/03		98.43	15.78	16.77	0.99	82.45	--	--	--	--	--	--	--	--	--	
4/21/03		98.43	14.86	14.91	0.05	83.56	--	--	NOT SAMPLED DUE TO THE PRESENCE OF SPH						--	--
5/19/03		98.43	14.73	14.76	0.03	83.69	--	--	--	--	--	--	--	--	--	
6/5/03		98.43	14.94	15.01	0.07	83.48	--	--	--	--	--	--	--	--	--	
6/26/03		98.43	15.18	15.20	0.02	83.25	--	--	NOT SAMPLED DUE TO THE PRESENCE OF SPH						--	--
8/18/03		98.43	16.01	16.05	0.04	82.41	--	--	--	--	--	--	--	--	--	
9/6/03		98.43	16.01	16.04	0.03	82.41	--	--	--	--	--	--	--	--	--	
10/14/03	NP	98.43	--	15.90	0.00	82.53	--	--	65,000	72	3,600	1,700	8,600	<100	--	
11/17/03		98.43	15.82	15.98	0.16	82.58	--	--	--	--	--	--	--	--	--	
12/8/03		98.43	15.95	15.97	0.02	82.48	--	--	--	--	--	--	--	--	--	
1/7/04		98.43	15.46	15.49	0.03	82.96	--	--	NOT SAMPLED DUE TO THE PRESENCE OF SPH						--	--
2/26/04		98.43	14.93	14.96	0.03	83.49	--	--	--	--	--	--	--	--	--	
3/18/04		98.43	15.13	15.16	0.03	83.29	--	--	--	--	--	--	--	--	--	
4/21/04		98.43	14.64	14.66	0.02	83.79	--	--	NOT SAMPLED DUE TO THE PRESENCE OF SPH						--	--

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
CHEVRON SERVICE STATION NO. 9-0129
4700 Brooklyn Avenue
Seattle, Washington
Concentrations reported in µg/L unless otherwise noted

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE ³ (ft.)	THP- DRO	TPH- HRO	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead (mg/L)
MW-11 (cont)															
5/17/04		98.43	14.60	14.62	0.02	83.83	--	--	--	--	--	--	--	--	--
6/2/04		98.43	15.20	15.22	0.02	83.23	--	--	--	--	--	--	--	--	--
7/1/04	NP	98.43	--	15.01	0.00	83.42	--	--	59,000	44	2,200	980	9,000	<25	--
8/16/04		98.43	15.31	15.33	0.02	83.12	--	--	--	--	--	--	--	--	--
9/24/04		98.43	16.03	16.05	0.02	82.40	--	--	--	--	--	--	--	--	--
10/15/04	NP	98.43	--	15.35	0.00	83.08	--	--	53,000	72	2,900	1,400	8,400	<200	--
10/26/04		98.43	16.00	16.02	0.02	82.43	--	--	--	--	--	--	--	--	--
12/2/04		98.43	15.86	15.89	0.03	82.56	--	--	--	--	--	--	--	--	--
1/5/05		98.43	15.11	15.14	0.03	83.31	--	--	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--
2/1/05		98.43	15.05	15.08	0.03	83.37	--	--	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--
8/4/05		98.43	15.45	15.48	0.03	82.97	--	--	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--
4/5/06		98.43	--	--	--	--	--	--	--	--	--	--	--	--	--
7/26/06	NP	98.43	--	13.42	0.00	85.01	--	--	<48	1.0	<0.5	0.6	2.0	<2.5	--
7/19/07	NP	98.43	--	12.31	0.00	86.12	--	--	<50	1.5	<0.5	<0.5	<1.5	<10	--
7/23/08	NP	98.43	--	14.45	0.00	83.98	--	--	530	<0.5	<2.0	1.5	8.0	<2.5	--
7/13/09	NP	98.43	--	11.64	0.00	86.79	--	--	4,500	530	95	170	640	<5.0	--
12/17-18/09		98.43	--	11.40	0.00	87.03	230	<70	3,800	510	610	23	95	<13	--
3/17/10		98.43	--	11.31	0.00	87.12	400	430	57,000	2,900	9,700	840	6,200	<63	--
06/22-23/10		98.43	--	11.64	0.00	86.79	870	<68	41,000	64	1,600	940	6,700	<25	--
9/13/10		98.43	--	15.16	0.00	83.27	25,000	<1,700	42,000	99	1,200	760	5,300	<25	--
12/21/10		98.43	--	15.33	0.00	83.10	1,600	<350	40,000	390	2,700	720	4,900	59	--
6/16/11		98.43	--	15.08	0.00	83.35	3,800	<680	33,000	490	1,800	600	3,000	<25	--
9/23/11		98.43	--	16.00	0.00	82.43	600	<68	21,000	630	1,200	610	2,200	74	--
1/14/12		98.43	16.25	16.50	0.25	82.13	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	
3/31/12		98.43	--	15.60	0.00	82.83	1,800	<69	26,000	340	690	320	1,300	93	--
6/2/12		98.43	15.35	15.55	0.20	83.04	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	

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GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
CHEVRON SERVICE STATION NO. 9-0129
4700 Brooklyn Avenue
Seattle, Washington
Concentrations reported in µg/L unless otherwise noted

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE ³ (ft.)	THP- DRO	TPH- HRO	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead (mg/L)
MW-12															
2/25/92		100.50	--	--	--	--	--	--	130,000	16,000	31,000	2,800	20,000	--	--
5/15/92		100.50	--	--	--	--	--	--	109,000	12,000	28,000	2,100	16,000	--	--
7/31/92		100.50	--	15.54	--	84.96	--	--	--	--	--	--	--	--	--
8/18/92		100.50	--	15.80	--	84.70	--	--	210,000	24,000	40,000	2,800	17,000	--	--
9/25/92		100.50	--	15.64	--	84.86	--	--	--	--	--	--	--	--	--
2/23/93		100.50	--	15.99	--	84.51	--	--	140,000	20,000	31,000	1,600	12,000	--	--
5/12/93		100.50	--	15.55	--	84.95	--	--	120,000	19,000	29,000	1,700	15,000	--	--
8/18/93		100.50	--	15.57	--	84.93	--	--	160,000	21,000	39,000	2,500	18,000	--	--
11/10/93		100.50	--	16.12	--	84.38	--	--	160,000	21,000	35,000	3,000	14,000	--	--
2/3/94		100.50	--	15.76	--	84.74	--	--	130,000	21,000	43,000	2,100	13,000	--	--
4/26/94		100.50	--	15.29	--	85.21	--	--	200,000	20,000	37,000	3,100	16,000	--	--
7/20/94		100.50	--	16.39	--	84.11	--	--	240,000	26,000	41,000	4,000	24,000	--	--
10/18/94		100.50	19.65	21.89	2.24	80.40	--	--	--	--	--	--	--	--	--
2/1/95		100.50	19.00	20.75	1.75	81.15	--	--	--	--	--	--	--	--	--
7/12/95		100.50	--	16.48	--	84.02	--	--	100,000	12,000	21,000	1,500	12,000	--	--
1/4/96		100.50	--	15.01	--	85.49	--	--	1,100,000	ND	ND	1,800	37,000	--	--
1/7/97		100.50	16.70	16.70	Sheen	83.80	--	--	471,000	9,700	21,500	3,210	34,600	--	--
2/12/98		100.50	--	16.30	--	84.20	--	--	176,000	17,200	27,700	2,270	21,400	--	--
5/31/99	NP	100.50	--	16.33	0.00	84.17	--	--	131,000	4,680	14,500	1,510	22,400	--	--
6/8/00		100.50	17.19	17.19	Sheen	83.31	--	--	153,000	12,500	24,300	2,680	25,800	ND ¹	--
1/30/01		100.50	18.34	18.31	0.03	82.15	--	--	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--
4/11/01		100.50	--	17.11	0.00	83.39	--	--	219,000	15,200	23,700	2,420	27,900	--	--
7/28/01		100.50	--	16.78	0.00	83.72	--	--	170,000	12,400	23,100	2,370	27,100	--	--
10/15/01		100.50	--	16.96	0.00	83.54	--	--	168,000	12,300	21,200	2,010	25,300	--	--
1/5/02		100.50	--	15.54	0.00	84.96	--	--	131,000	9,870	17,500	1,810	24,300	--	--
NOT MONITORED/SAMPLED			--	--	--	--	--	--	--	--	--	--	--	--	--
12/17-18/09		100.50	--	16.69	0.00	83.81	9,300	1,700	200,000	4,100	4,700	620	18,000	<50	--
3/17/10		100.50	--	15.98	0.00	84.52	25,000	<3,500	200,000	4,300	7,200	980	19,000	<50	--
06/22-23/10		100.50	--	15.29	0.00	85.21	48,000	6,500	140,000	3,000	5,300	610	18,000	<130	--

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Seattle, Washington
Concentrations reported in µg/L unless otherwise noted

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE ³ (ft.)	THP- DRO	TPH- HRO	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead (mg/L)
MW-12 (cont)															
9/13/10		100.50	--	17.29	0.00	83.21	7,500	<730	130,000	10,000	17,000	1,800	17,000	<500	--
12/20/10		100.50	--	17.27	0.00	83.23	3,900	<360	120,000	8,800	12,000	1,600	12,000	230	--
6/16/11		100.50	--	17.11	0.00	83.39	2,800	<350	110,000	7,400	13,000	1,500	15,000	<500	--
9/23/11		100.50	--	18.17	0.00	82.33	1,300	460	130,000	14,000	21,000	2,400	17,000	270	--
1/14/12		100.50	18.40	18.62	0.22	82.06	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--	--	--	--
3/31/12		100.50	--	17.75	0.00	82.75	3,800	640	110,000	11,000	12,000	2,300	15,000	400	--
6/2/12		100.50	--	20.90	0.00	79.60	INSUFFICIENT WATER TO SAMPLE					--	--	--	--
MW-13															
2/19/90		99.01	--	--	--	--	--	--	ND	ND	45	78	176	--	--
4/12/91		99.01	--	--	--	--	--	--	3,100	5.9	13	79	140	--	--
6/28/91		99.01	--	--	--	--	--	--	2,300	30	6.9	100	120	--	--
9/18/91		99.01	--	--	--	--	--	--	3,700	14	6.9	50	94	--	--
12/3/91		99.01	--	--	--	--	--	--	2,500	26	5.6	110	85	--	--
2/25/92		99.01	--	--	--	--	--	--	2,400	27	ND	91	89	--	--
5/15/92		99.01	--	--	--	--	--	--	650	6.3	0.83	24	15	--	--
7/31/92		99.01	--	15.38	--	83.63	--	--	--	--	--	--	--	--	--
8/18/92		99.01	--	15.35	--	83.66	--	--	2,900	1.9	2.1	35	15	--	--
9/25/92		99.01	--	15.68	--	83.33	--	--	--	--	--	--	--	--	--
2/23/93		99.01	--	15.38	--	83.63	--	--	2,100	4.6	3.6	31	35	--	--
5/13/93		99.01	--	15.01	--	84.00	--	--	2,400	21	ND	160	140	--	--
8/18/93		99.01	--	14.92	--	84.09	--	--	1,800	3.5	1.9	25	20	--	--
11/10/93		99.01	--	15.45	--	83.56	--	--	1,700	7.8	2.0	14	21	--	--
2/3/94		99.01	--	15.27	--	83.74	--	--	2,300	4.7	4.2	47	53	--	--
4/26/94		99.01	--	14.75	--	84.26	--	--	3,100	15	5.2	73	45	--	--
7/20/94		99.01	--	15.23	--	83.78	--	--	3,200	5.3	6.4	140	88	--	--
10/18/94		99.01	--	16.17	--	82.84	--	--	4,600	8.3	8.9	160	64	--	--
2/1/95		99.01	--	15.86	--	83.15	--	--	4,900	26	17	120	120	--	--
7/12/95		99.01	--	15.45	--	83.56	--	--	2,800	20	3.6	98	23	--	--
1/4/96		99.01	--	15.01	--	84.00	--	--	4,700	36	7.9	170	82	--	--

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Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE ³ (ft.)	THP- DRO	TPH- HRO	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead (mg/L)
MW-13 (cont)															
1/7/97		99.01	--	14.25	--	84.76	--	--	474	ND	ND	ND	2.86	--	--
2/12/98		99.01	--	15.09	--	83.92	--	--	ND	ND	ND	ND	ND	--	--
5/31/99	NP	99.01	--	15.27	0.00	83.74	--	--	ND	0.518	ND	ND	ND	--	--
6/8/00		99.01	--	15.89	0.00	83.12	--	--	--	--	--	--	--	--	--
1/30/01		99.01	--	16.41	0.00	82.60	--	--	4,060	12.2	5.29	88.2	53.9	--	--
4/11/01		99.01	--	16.44	0.00	82.57	--	--	4,630	7.09	3.32	116	87.0	--	--
7/28/01		99.01	--	16.49	0.00	82.52	--	--	4,580	8.08	5.39	99.6	72.2	--	--
10/15/01		99.01	--	16.77	0.00	82.24	--	--	4,120	4.74	2.88	38.0	37.3	--	--
1/5/02		99.01	--	15.66	0.00	83.35	--	--	4,620	3.40	3.68	61.2	34.3	--	--
4/2/02	NP	99.01	--	15.33	0.00	83.68	--	--	4,000	<0.50	<1.0	26	7.2	<5.0	--
7/11/02	NP	99.01	--	15.91	0.00	83.10	--	--	10,000	1.5	6.0	31	110	<2.5	--
10/10/02	NP	99.01	--	16.48	0.00	82.53	--	--	4,600	2.8	9.9	15	110	<20	--
1/10/03	NP	99.01	--	16.23	0.00	82.78	--	--	2,500	<5.0	0.73	0.75	2.2	<20	--
4/21/03	NP	99.01	--	14.81	0.00	84.20	--	--	2,200	<5.0	1	1.6	<3.0	<10	--
6/26/03		99.01	15.18	15.20	0.02	83.83	--	--	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	
10/14/03	NP	99.01	--	16.12	0.00	82.89	--	--	2,300	2.1	<1.0	9.3	4.1	<10	--
1/7/04	NP	99.01	--	15.22	0.00	83.79	--	--	2,300	<2.0	0.5	3.1	2.1	<5.0	--
4/21/04	NP	99.01	--	14.88	0.00	84.13	--	--	2,100	2.5	1.8	48	25	<50	--
7/1/04	NP	99.01	--	15.20	0.00	83.81	--	--	2,600	<5.0	1.4	28	14	<5.0	--
10/15/04	NP	99.01	--	15.60	0.00	83.41	--	--	1,700	1.8	<1.0	7.9	<9.0	<10	--
1/5/05	NP	99.01	--	15.27	0.00	83.74	--	--	1,600	<5.0	0.6	7.0	<3.0	<5.0	--
8/4/05	NP	99.01	--	14.72	0.00	84.29	--	--	1,200	1.6	<0.5	1.7	<3.0	<2.5	--
07/26/06	NP	99.01	--	13.90	0.00	85.11	--	--	54	1.8	<0.5	<0.5	<1.5	<2.5	--
7/19/07	NP	99.01	--	13.30	0.00	85.71	--	--	93	1.9	<0.5	<0.5	<1.5	<10	--
7/23/08	NP	99.01	--	14.71	0.00	84.30	--	--	100	<0.5	<0.5	<0.5	<1.5	<2.5	--
7/13/09	NP	99.01	--	12.67	0.00	86.34	--	--	<50	16	<0.5	<0.5	<1.5	<2.5	--

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Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE ³ (ft.)	THP- DRO	TPH- HRO	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead (mg/L)
MW-13 (cont)															
12/17-18/09		99.01	--	12.22	0.00	86.79	<29	<67	93	<0.5	<0.5	<0.5	<1.5	<2.5	--
3/17/10		99.01	--	12.13	0.00	86.88	2,200	630	4,100	58	<10	5.7	15	4.3	--
06/22-23/10		99.01	--	12.27	0.00	86.74	700	<70	23,000	70	91	470	4,000	<25	--
9/13/10		99.01	--	15.57	0.00	83.44	2,000	<340	4,400	450	300	82	100	<13	--
12/21/10		99.01	--	15.77	0.00	83.24	910	270	3,900	290	55	69	68	34	--
6/16/11		99.01	--	15.43	0.00	83.58	2,000	<350	4,900	210	12	74	89	<50	--
9/23/11		99.01	--	16.25	0.00	82.76	730	<69	4,500	190	8.8	80	85	<50	--
1/14/12		99.01	--	16.55	0.00	82.46	1,700	140	4,300	160	8.2	78	60	38	--
3/31/12		99.01	--	15.90	0.00	83.11	4,300	89	4,500	200	8.5	100	80	36	--
6/2/12		99.01	--	15.60	0.00	83.41	3,300	240	4,200	140	7.8	110	83	33	--
MW-14															
2/19/90		99.53	--	--	--	--	--	--	ND	ND	ND	ND	ND	--	--
4/12/91		99.53	--	--	--	--	--	--	ND	7.2	13	75	130	--	--
6/28/91		99.53	--	--	--	--	--	--	ND	ND	ND	ND	ND	--	--
9/18/91		99.53	--	--	--	--	--	--	ND	ND	ND	ND	ND	--	--
12/3/91		99.53	--	--	--	--	--	--	ND	ND	ND	ND	ND	--	--
2/25/92		99.53	--	--	--	--	--	--	ND	ND	ND	ND	ND	--	--
5/15/92		99.53	--	--	--	--	--	--	ND	ND	ND	ND	ND	--	--
7/31/92		99.53	--	18.08	--	81.45	--	--	--	--	--	--	--	--	--
8/18/92		99.53	--	18.19	--	81.34	--	--	ND	ND	ND	ND	ND	--	--
9/25/92		99.53	--	18.10	--	81.43	--	--	--	--	--	--	--	--	--
2/23/93		99.53	--	--	--	--	--	--	--	--	--	--	--	--	--
5/12/93		99.53	--	--	--	--	--	--	--	--	--	--	--	--	--
8/18/93		99.53	--	--	--	--	--	--	--	--	--	--	--	--	--
11/10/93		99.53	--	--	--	--	--	--	--	--	--	--	--	--	--
2/3/94		99.53	--	--	--	--	--	--	--	--	--	--	--	--	--
4/26/94		99.53	--	--	--	--	--	--	--	--	--	--	--	--	--
7/20/94		99.53	--	--	--	--	--	--	--	--	--	--	--	--	--
10/18/94		99.53	--	--	--	--	--	--	--	--	--	--	--	--	--
2/1/95		99.53	--	18.72	--	80.81	--	--	--	--	--	--	--	--	--

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
CHEVRON SERVICE STATION NO. 9-0129
4700 Brooklyn Avenue
Seattle, Washington
Concentrations reported in µg/L unless otherwise noted

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE ³ (ft.)	THP- DRO	TPH- HRO	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead (mg/L)
MW-14 (cont)															
7/12/95		99.53	--	18.54	--	80.99	--	--	ND	ND	ND	ND	ND	--	--
1/4/96		99.53	--	18.28	--	81.25	--	--	ND	ND	ND	ND	ND	--	--
1/7/97		99.53	--	--	--	--	--	--	--	--	--	--	--	--	--
2/12/98		99.53	--	--	--	--	--	--	--	--	--	--	--	--	--
5/31/99		99.53	--	--	--	--	--	--	--	--	--	--	--	--	--
6/8/00		99.53	--	--	--	--	--	--	--	--	--	--	--	--	--
1/30/01		99.53	--	--	--	--	--	--	--	--	--	--	--	--	--
4/11/01		99.53	--	18.75	--	80.78	--	--	<50.0	<0.500	<0.500	0.520	2.22	--	--
7/28/01		99.53	--	19.23	--	80.30	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	--	--
10/15/01		99.53	--	19.45	--	80.08	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	--	--
1/5/02		99.53	--	17.21	--	82.32	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	--	--
4/2/02		99.53	--	16.63	--	82.90	--	--	--	--	--	--	--	--	--
7/11/02		99.53	--	18.52	--	81.01	--	--	--	--	--	--	--	--	--
10/10/02		99.53	--	18.96	--	80.57	--	--	--	--	--	--	--	--	--
1/10/03		99.53	--	18.55	--	80.98	--	--	--	--	--	--	--	--	--
4/21/03		99.53	--	17.13	--	82.40	--	--	--	--	--	--	--	--	--
6/26/03		99.53	--	17.52	--	82.01	--	--	--	--	--	--	--	--	--
10/14/03		99.53	--	18.42	--	81.11	--	--	--	--	--	--	--	--	--
1/7/04		99.53	--	17.51	--	82.02	--	--	--	--	--	--	--	--	--
4/21/04		99.53	--	17.11	--	82.42	--	--	--	--	--	--	--	--	--
7/1/04		99.53	--	17.50	--	82.03	--	--	--	--	--	--	--	--	--
10/15/04		99.53	--	17.53	--	82.00	--	--	--	--	--	--	--	--	--
1/5/05		99.53	--	17.41	--	82.12	--	--	--	--	--	--	--	--	--
8/4/05		99.53	--	17.12	--	82.41	--	--	--	--	--	--	--	--	--
07/26/06		99.53	--	17.00	--	82.53	--	--	--	--	--	--	--	--	--
7/19/07		99.53	--	16.98	--	82.55	--	--	--	--	--	--	--	--	--
7/23/08		99.53	--	16.56	--	82.97	--	--	--	--	--	--	--	--	--
7/13/09		99.53	--	15.57	--	83.96	--	--	--	--	--	--	--	--	--
12/17-18/09		99.53	--	15.56	--	83.97	<30	<70	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
3/17/10		99.53	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--	--

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CHEVRON SERVICE STATION NO. 9-0129
4700 Brooklyn Avenue
Seattle, Washington
Concentrations reported in µg/L unless otherwise noted

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE ³ (ft.)	THP- DRO	TPH- HRO	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead (mg/L)	
MW-14 (cont)																
06/22-23/10		99.53	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--	--	
9/13/10		99.53	--	17.79	--	81.74	<29	130	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
12/21/10		99.53	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--	--	
6/16/11		99.53	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--	--	
9/23/11		99.53	--	18.55	--	80.98	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
1/14/12		99.53	--	18.90	--	80.63	<30	<70	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
3/31/12		99.53	INACCESSIBLE - CAR PARKED OVER WELL					--	--	--	--	--	--	--	--	--
6/2/12		99.53	--	18.20	--	81.33	79	<72	3,700	500	18	280	31	48	--	
MW-15																
03/08/01		98.83	--	16.80	--	82.03	--	--	--	--	--	--	--	--	--	
4/11/01		98.83	--	17.09	--	81.74	--	--	<50.0	0.714	<0.500	<0.500	<1.00	--	<0.00100	
7/28/01		98.83	--	16.99	--	81.84	--	--	<50.0	0.655	<0.500	<0.500	<1.00	--	0.00221	
10/15/01		98.83	--	17.10	--	81.73	--	--	<50.0	0.589	<0.500	<0.500	<1.00	--	<0.00100 ⁴	
1/5/02		98.83	--	16.26	--	82.57	--	--	62.3	1.24	<0.500	<0.500	<1.00	--	<0.00100	
4/2/02		98.83	--	15.70	--	83.13	--	--	--	--	--	--	--	--	--	
7/11/02		98.83	--	16.06	--	82.77	--	--	--	--	--	--	--	--	--	
10/10/02		98.83	--	16.46	--	82.37	--	--	--	--	--	--	--	--	--	
1/10/03		98.83	--	16.14	--	82.69	--	--	--	--	--	--	--	--	--	
4/21/03		98.83	--	15.63	--	83.20	--	--	--	--	--	--	--	--	--	
6/26/03		98.83	--	16.07	--	82.76	--	--	--	--	--	--	--	--	--	
10/14/03		98.83	--	16.11	--	82.72	--	--	--	--	--	--	--	--	--	
1/7/04		98.83	--	15.23	--	83.60	--	--	--	--	--	--	--	--	--	
4/21/04		98.83	--	15.60	--	83.23	--	--	--	--	--	--	--	--	--	
7/1/04		98.83	--	16.04	--	82.79	--	--	--	--	--	--	--	--	--	
10/15/04		98.83	--	16.09	--	82.74	--	--	--	--	--	--	--	--	--	
1/5/05		98.83	--	15.92	--	82.91	--	--	--	--	--	--	--	--	--	
8/4/05		98.83	--	15.59	--	83.24	--	--	--	--	--	--	--	--	--	
07/26/06		98.83	--	15.46	--	83.37	--	--	--	--	--	--	--	--	--	
7/19/07		98.83	--	16.30	--	82.53	--	--	--	--	--	--	--	--	--	
7/23/08		98.83	--	16.38	--	82.45	--	--	--	--	--	--	--	--	--	

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Seattle, Washington
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Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE ³ (ft.)	THP- DRO	TPH- HRO	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead (mg/L)	
MW-15 (cont)																
7/13/09		98.83	--	15.35	--	83.48	--	--	--	--	--	--	--	--	--	
12/17-18/09		98.83	--	15.58	--	83.25	400	320	<50	0.8	<0.5	<0.5	<1.5	5.6	--	
3/17/10		98.83	--	15.25	--	83.58	48	<70	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
06/22-23/10		98.83	--	14.69	--	84.14	42	<68	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
9/13/10		98.83	--	16.54	--	82.29	<29	91	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
12/21/10		98.83	--	16.58	--	82.25	<30	<70	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
6/16/11		98.83	--	16.66	--	82.17	47	110	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
9/23/11		98.83	--	17.37	--	81.46	<30	<70	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
1/14/12		98.83	--	17.60	--	81.23	<29	<68	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
3/31/12		98.83	--	17.05	--	81.78	<30	<70	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
6/2/12		98.83	--	16.80	--	82.03	<30	<70	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
MW-16																
03/08/01		97.80	--	16.40	--	81.40	--	--	--	--	--	--	--	--	--	
4/11/01		97.80	INACCESSIBLE - CAR PARKED OVER WELL					--	--	--	--	--	--	--	--	--
6/14/01		97.80	--	16.71	--	81.09	--	--	2,950	52.7	14.4	217	123	34.1 / <5.00⁶	<0.00100	
7/28/01		97.80	--	16.81	--	80.99	--	--	1,620	46.5	13.5	122	112	-- / <5.0⁶	0.00332	
10/15/01		97.80	--	17.00	--	80.80	--	--	3,380	111	28.5	257	211	-- / <0.500⁶	<0.00100⁴	
1/5/02		97.80	--	16.46	--	81.34	--	--	3,300	109	18.2	247	214	-- / <5.00⁶	<0.00100	
4/2/02	NP	97.80	--	16.32	--	81.48	--	--	3,900	97	17	230	190	<2.5	--	
7/11/02	NP	97.80	--	16.50	--	81.30	--	--	2,900	54	12	160	120	<6.0	--	
10/10/02	NP	97.80	--	16.89	--	80.91	--	--	2,500	55	7.6	140	88	<20	--	
1/10/03	NP	97.80	--	16.84	--	80.96	--	--	3,000	61	8.2	140	92	<50	--	
4/21/03	NP	97.80	--	15.82	--	81.98	--	--	2,500	57	6.6	110	97	<5.0	--	
6/26/03	NP	97.80	--	16.11	--	81.69	--	--	3,900	86	10	180	160	<10	--	
10/14/03	NP	97.80	--	16.49	--	81.31	--	--	3,800	60	9.0	150	130	<10	--	
1/7/04		97.80	INACCESSIBLE - WELL FROZEN SHUT					--	--	--	--	--	--	--	--	--
4/21/04	NP	97.80	--	15.81	--	81.99	--	--	2,200	54	9.9	110	120	<10	--	
7/1/04	NP	97.80	--	16.09	--	81.71	--	--	3,900	92	16	190	180	<10	--	
10/15/04	NP	97.80	--	16.11	--	81.69	--	--	2,000	61	7.1	120	100	<20	--	
1/5/05	NP	97.80	--	15.98	--	81.82	--	--	2,300	65	8.4	120	110	<10	--	

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Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE ³ (ft.)	THP- DRO	TPH- HRO	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead (mg/L)
MW-16 (cont)															
8/4/05	NP	97.80	--	15.81	--	81.99	--	--	3,900	89	17	220	200	<5.0	--
07/26/06	NP	97.80	--	14.95	--	82.85	--	--	9,100	19	13	290	560	<50	--
7/19/07	NP	97.80	--	14.28	--	83.52	--	--	140	2.0	0.5	1.5	3.8	<10	--
7/23/08	NP	97.80	--	15.11	--	82.69	--	--	230	1.5	0.6	15	2.1	<2.5	--
7/13/09	NP	97.80	--	13.50	--	84.30	--	--	490	1.9	0.8	2.3	10	<5.0	--
12/17-18/09		97.80	--	13.24	--	84.56	77	<71	6,600	11	8.5	200	320	<20	--
3/17/10		97.80	--	13.26	--	84.54	<140	390	2,100	9.2	5.2	41	77	13	--
06/22-23/10		97.80	--	13.15	--	84.65	91	<69	3,000	53	12	98	130	<20	--
9/13/10		97.80	--	15.50	--	82.30	380	170	6,500	150	48	260	120	<20	--
12/21/10		97.80	--	15.54	--	82.26	200	<71	6,000	300	68	350	95	66	--
6/16/11		97.80	--	15.34	--	82.46	230	180	4,800	370	57	350	70	<50	--
9/23/11		97.80	--	16.00	--	81.80	62	<71	4,400	580	80	390	120	31	--
1/14/12		97.80	--	16.25	--	81.55	32	<68	4,000	500	27	360	46	53	--
3/31/12		97.80	--	15.80	--	82.00	54	<70	3,300	490	21	310	33	45	--
6/2/12		97.80	--	16.45	--	81.35	56	<68	3,600	530	18	270	28	46	--
TRIP BLANK															
2/12/98		--	--	--	--	--	--	--	ND	ND	ND	ND	ND	--	--
5/31/99		--	--	--	--	--	--	--	ND	ND	ND	ND	ND	--	--
6/8/00		--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--
1/30/01		--	--	--	--	--	--	--	ND	ND	ND	ND	ND	--	--
4/11/01		--	--	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	--	--
7/28/01		--	--	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	--	--
10/15/01		--	--	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	--	--
1/5/02		--	--	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	--	--
4/2/02		--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
QA															
7/11/02		--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
10/10/02		--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
01/10/03 ⁵		--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/21/03		--	--	--	--	--	--	--	<50	<0.5	0.9	<0.5	<1.5	<2.5	--

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QA (cont)																
6/26/03		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
10/14/03		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
1/7/04		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
4/21/04		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
7/1/04		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
10/15/04		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
1/5/05		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
8/4/05		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
07/26/06		--	--	--	--	--	--	--	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--	
7/19/07		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
7/23/08		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
7/13/09		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
12/17-18/09		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
3/17/10		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
06/22-23/10		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
9/13/10		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
12/21/10		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
6/16/11		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
9/23/11		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
1/14/12		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
3/31/12		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
6/2/12		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
Standard Method Detection Limit:							--	--	50	0.5	0.5	0.5	1.5	2.5	0.00100	
MTCA Method A Cleanup Levels:							500	500	800/1,000	5	1,000	700	1,000	20	--	
Current Method: ⁷							NWTPH-Dx ⁸		USEPA 8021B						USEPA 6000/7000	

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
CHEVRON SERVICE STATION NO. 9-0129
4700 Brooklyn Avenue
Seattle, Washington
Concentrations reported in µg/L unless otherwise noted

Abbreviations:

(D) = Duplicate	NP = No Purge	TPH-HRO = TPH as heavy oil-range organics
DTW/P = Depth to Water or Product	QA = Quality Assurance/Trip Blank	USEPA = United States Environmental Protection Agency
(ft.) = Feet	SPH = Separate-phase hydrocarbons	µg/L = Micrograms per liter
GWE = Groundwater Elevation	SPHT = SPH Thickness	-- = Not Measured/Not Analyzed
mg/L = milligrams per liter	TOC = Top of Casing	
MTBE = Methyl tertiary butyl ether	TPH = Total Petroleum Hydrocarbons	
MTCA = Model Toxics Control Act	TPH-DRO = TPH as diesel-range organics	
ND = Not Detected	TPH-GRO = TPH as gasoline-range organics	

Notes:

- 1 Analytical results in bold font indicate concentrations exceed MTCA Method A cleanup levels.
- 2 TOC elevations have been surveyed as feet relative to an arbitrary site datum.
- 3 When SPH is present, GWE has been corrected using the following formula: $GWE = [(TOC - DTW) + (SPHT \times 0.80)]$.
- 4 Laboratory report indicates this sample was laboratory filtered.
- 5 Laboratory indicates they did not receive a QA sample. No results were provided.
- 6 MTBE by USEPA Method 8260.
- 7 Laboratory analytical methods for historical data may not be consistent with list of current analytical methods. When necessary, consult original laboratory reports to verify methods used.
- 8 Analyzed with silica-gel clean up.

Attachment A:
Groundwater Monitoring and Sampling Data Package



GETTLER-RYAN INC.



TRANSMITTAL

June 8, 2012
G-R #386649

TO: Ms. Ruth A. Otteman
SAIC
18912 North Creek Parkway, Suite 101
Bothell, WA 98011

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

RE: **Chevron Service Station**
#9-0129
4700 Brooklyn Avenue
Seattle, Washington

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package Second Quarter Event of June 2, 2012

COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/9-0129



GETTLER - RYAN INC.

CHEVRON - SITE CHECK LIST

Facility#: **Chevron #9-0129** Date: **6.2.12**
 Address: **4700 Brooklyn Avenue**
 City/St.: **Seattle, WA**
 Status of Site: **ACTIVE CHEVRON**

DRUMS:

Please list below ALL DRUMS @ site: i.e., drum description, condition, labeling, contents, location of drum:



#	Description	Condition	Labeling	Contents	Location
	No DM's				

WELLS:

Please check the condition of ALL WELLS @ site: i.e., well box condition, gaskets, bolts, well plug, well lock, etc.:

Well ID	Gaskets (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Well Plug Y/N	Well Lock Y/N	Well Box Manufacturer/Size/# of Bolts	Other
MW-1	R	6000	PVC CAP	N.A	8" MORRIS x 3	
MW-2	6000	6000	R (C)	R	12" EMCO x 2	
MW-3	6000	6000	R (C)	R	12" EMCO x 2	
MW-4	6000	6000	R (C)	R	12" EMCO x 2	
MW-5	6000	6000	R (C)	R	8" UNIVERSAL x 2	
MW-6	6000	6000	6000	6000	8" UNIVERSAL x 2	
MW-7	6000	6000	R (C)	R	8" UNIVERSAL x 2	
MW-8	6000	6000	R (C)	R	8" UNIVERSAL x 2	
MW-9	6000	6000	R (C)	R	8" UNIVERSAL x 2	
MW-10	6000			→	8" UNIVERSAL x 2	
MW-11	6000			→	8" UNIVERSAL x 2	
MW-12	6000			→	8" UNIVERSAL x 2	
MW-13	6000	6000	R (C)	R	8" UNIVERSAL x 2	
MW-14	6000	6000	R (C)	R	12" EMCO x 2	UNDER TRUCK
MW-15	R	6000		→	8" MORRIS x 3	
MW-16	R	6000		→	8" MORRIS x 3	

Additional Comments/Observations: _____

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). Purging continues until these parameters stabilize. Purge water is treated by filtering the water through granular activated carbon and is subsequently discharged to the ground surface at the site.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-0129
 Site Address: 4700 Brooklyn Avenue
 City: Seattle, WA

Job Number: 386649
 Event Date: 6.2.12 (inclusive)
 Sampler: J.P.

Well ID: MW-1
 Well Diameter: 2 in.
 Total Depth: * ft.
 Depth to Water: * ft.

Date Monitored: 6.2.12

Volume	3/4"= 0.02	1"= 0.04	<u>2"= 0.17</u>	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: - gal.

Purge/Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____ gal
 Product Transferred to: _____

Start Time (purge): _____
 Sample Time/Date: /
 Approx. Flow Rate: _____ gpm.
 Did well de-water? _____ If yes, Time: _____

Weather Conditions: _____
 Water Color: _____ Odor: Y / N
 Sediment Description: _____
 Volume: _____ gal. DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8021)
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc

COMMENTS: MW-1 HAS A PVC 2" CAP BLOWN SHUT/OFF. INACCESSIBLE
M. B. RYAN

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-0129 Job Number: 386649
 Site Address: 4700 Brooklyn Avenue Event Date: 6.2.12 (inclusive)
 City: Seattle, WA Sampler: J. Payne

Well ID: MW-2 Date Monitored: 6.2.12

Well Diameter: 2 in.

Total Depth: 19.80 ft.

Depth to Water: 17.80 ft.

Volume	3/4"= 0.02	1"= 0.04	<u>2"= 0.17</u>	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 18.40 case volume = Estimated Purge Volume: 3.102 gal.

Purge Equipment:

Disposable Bailer x
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer x
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____ gal
 Product Transferred to: _____

Start Time (purge): 0750 Weather Conditions: Overcast
 Sample Time/Date: 0820 6.2.12 Water Color: clear Odor: Y / N
 Approx. Flow Rate: _____ gpm. Sediment Description: FINE SAND BRN
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 18.40

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ($\mu\text{mhos/cm} - \mu\text{S}$)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>0800</u>	<u>1</u>	<u>6.30</u>	<u>.510</u>	<u>10.6</u>		
<u>0806</u>	<u>2</u>	<u>6.30</u>	<u>.510</u>	<u>13.7</u>		
<u>0815</u>	<u>3</u>	<u>6.30</u>	<u>.510</u>	<u>13.7</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>NWTPH-Gx/BTEX+MTBE(8021)</u>
	<u>2</u> x 1 liter ambers	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>NWTPH-Dx w/sgc</u>

COMMENTS:

Add/Replaced Lock: x Add/Replaced Plug: x Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-0129 Job Number: 386649
 Site Address: 4700 Brooklyn Avenue Event Date: 6.2.12 (inclusive)
 City: Seattle, WA Sampler: J.P.

Well ID: MW-3 Date Monitored: 6.2.12

Well Diameter: 2 in.

Total Depth: 23.10 ft.

Depth to Water: 18.10 ft.

Volume	3/4"= 0.02	1"= 0.04	<u>2"= 0.17</u>	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 19.10
 $5.00 \times VF .17 = .85$ x3 case volume = Estimated Purge Volume: 3 gal.

Purge Equipment:

Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 0630 Weather Conditions: Overcast
 Sample Time/Date: 0647 / 6.2.12 Water Color: clear Odor: (Y) N none
 Approx. Flow Rate: _____ gpm. Sediment Description: FINE SAND
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 18.50

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>0630</u>	<u>1</u>	<u>6.12</u>	<u>.494</u>	<u>13.6</u>		
<u>0647</u>	<u>2</u>	<u>6.12</u>	<u>.494</u>	<u>13.4</u>		
<u>0656</u>	<u>3</u>	<u>6.12</u>	<u>.494</u>	<u>13.3</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	3 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8021)
	1 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc

COMMENTS:

Add/Replaced Lock: X Add/Replaced Plug: X Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-0129 Job Number: 386649
 Site Address: 4700 Brooklyn Avenue Event Date: 6.2.12 (inclusive)
 City: Seattle, WA Sampler: J.P.

Well ID: MW-4 Date Monitored: 6.2.12

Well Diameter: 2 in.

Total Depth: 21.4 ft.

Depth to Water: 17.85 ft.

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 18.56 gal.

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____ gal
 Product Transferred to: _____

Start Time (purge): 0917 Weather Conditions: Overcast
 Sample Time/Date: 0940 6.2.12 Water Color: Clear Odor: Y/N Mild
 Approx. Flow Rate: _____ gpm. Sediment Description: FINE SAND
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 18.56

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>0917</u>	<u>1</u>	<u>6.12</u>	<u>.505</u>	<u>13.7</u>		
<u>0924</u>	<u>2</u>	<u>6.12</u>	<u>.605</u>	<u>13.6</u>		
<u>0935</u>	<u>3</u>	<u>6.12</u>	<u>.605</u>	<u>13.4</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>NWTPH-Gx/BTEX+MTBE(8021)</u>
	<u>2</u> x 1 liter ambers	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>NWTPH-Dx w/sgc</u>

COMMENTS:

Add/Replaced Lock: Add/Replaced Plug: Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-0129 Job Number: 386649
 Site Address: 4700 Brooklyn Avenue Event Date: 6.2.12 (inclusive)
 City: Seattle, WA Sampler: J. PAINE

Well ID: MW-5 Date Monitored: 6.2.12

Well Diameter: 2 in.

Total Depth: 21.45 ft.

Depth to Water: 18.05 ft.

Volume	3/4" = 0.02	1" = 0.04	<u>2" = 0.17</u>	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 18.73
 $3.4 \times VF .17 = .67$ x3 case volume = Estimated Purge Volume: 2 gal.

Purge Equipment:

Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____ gal
 Product Transferred to: _____

Start Time (purge): 0830 Weather Conditions: Overcast
 Sample Time/Date: 0900 6.2.12 Water Color: clear Odor: (Y) / N nil
 Approx. Flow Rate: _____ gpm. Sediment Description: None
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 18.50

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C F)	D.O. (mg/L)	ORP (mV)
<u>0830</u>	<u>1</u>	<u>6.14</u>	<u>.400</u>	<u>13.5</u>		
<u>0900</u>	<u>2</u>	<u>6.14</u>	<u>.400</u>	<u>13.4</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8021)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc

COMMENTS:

Add/Replaced Lock: X Add/Replaced Plug: X Add/Replaced Bolt: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-0129 Job Number: 386649
 Site Address: 4700 Brooklyn Avenue Event Date: 6.2.12 (inclusive)
 City: Seattle, WA Sampler: J.P.

Well ID: MW-6 Date Monitored: 6.2.12

Well Diameter: 2 in.
 Total Depth: 22.30 ft.
 Depth to Water: 18.10 ft.

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	<u>2" = 0.17</u>	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 18.94
 $4.20 \times VF .17 = .71$ x3 case volume = Estimated Purge Volume: 3 gal.

Purge Equipment:

- Disposable Bailer x
- Stainless Steel Bailer _____
- Stack Pump _____
- Suction Pump _____
- Grundfos _____
- Peristaltic Pump _____
- QED Bladder Pump _____
- Other: _____

Sampling Equipment:

- Disposable Bailer x
- Pressure Bailer _____
- Discrete Bailer _____
- Peristaltic Pump _____
- QED Bladder Pump _____
- Other: _____

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ gal
Amt Removed from Well:	_____ gal
Water Removed:	_____ gal
Product Transferred to:	_____

Start Time (purge): 0710 Weather Conditions: Overcast
 Sample Time/Date: 0716 / 6.2.12 Water Color: clear Odor: (Y) / N none
 Approx. Flow Rate: _____ gpm. Sediment Description: None
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 18.60

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>0710</u>	<u>1</u>	<u>6.12</u>	<u>.492</u>	<u>13.6</u>	_____	_____
<u>0716</u>	<u>2</u>	<u>6.12</u>	<u>.492</u>	<u>13.5</u>	_____	_____
<u>0737</u>	<u>3</u>	<u>6.12</u>	<u>.492</u>	<u>13.4</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-6	<u>3</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8021)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-0129 Job Number: 386649
 Site Address: 4700 Brooklyn Avenue Event Date: 6.2.12 (inclusive)
 City: Seattle, WA Sampler: J.P.

Well ID: MW-7 Date Monitored: 6.2.12

Well Diameter: 2 in.

Total Depth: 10.30 ft.

Depth to Water: 17.10 ft.

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.74 gal.

Purge Equipment:

Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____ gal
 Product Transferred to: _____

Start Time (purge): 1110 Weather Conditions: Overcast
 Sample Time/Date: 1140 / 6.2.12 Water Color: Clear Odor: (Y) N Mild
 Approx. Flow Rate: _____ gpm. Sediment Description: Light Orange Flakes
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 17.50

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C F)	D.O. (mg/L)	ORP (mV)
<u>1110</u>	<u>1</u>	<u>6.32</u>	<u>.337</u>	<u>13.5</u>		
<u>1119</u>	<u>2</u>	<u>6.32</u>	<u>.337</u>	<u>13.4</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	3 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8021)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc

COMMENTS:

Add/Replaced Lock: X Add/Replaced Plug: X Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-0129
 Site Address: 4700 Brooklyn Avenue
 City: Seattle, WA

Job Number: 386649
 Event Date: 6.2.12 (inclusive)
 Sampler: J.P.

Well ID: MW-8
 Well Diameter: 2 in.
 Total Depth: 21.30 ft.
 Depth to Water: DFV ft.

Date Monitored: 6.2.12

Volume	3/4" = 0.02	1" = 0.04	<u>2" = 0.17</u>	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

— xVF .17 = — x3 case volume = Estimated Purge Volume: — gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: —

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: / Water Color: _____ Odor: Y / N
 Approx. Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8021)
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc

COMMENTS: _____

Add/Replaced Lock: X Add/Replaced Plug: X Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-0129 Job Number: 386649
 Site Address: 4700 Brooklyn Avenue Event Date: 6.2.12 (inclusive)
 City: Seattle, WA Sampler: J.P

Well ID: MW-9 Date Monitored: 6.2.12

Well Diameter: 2 in.
 Total Depth: 21.30 ft.
 Depth to Water: 16.60 ft.
 Volume Factor (VF) table:
 3/4" = 0.02, 1" = 0.04, 2" = 0.17, 3" = 0.38
 4" = 0.66, 5" = 1.02, 6" = 1.50, 12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.54 x3 case volume = Estimated Purge Volume: 3 gal.

Purge Equipment:

Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 0900 Weather Conditions: Overcast
 Sample Time/Date: 1010 6.2.12 Water Color: Clear Odor: Y/N
 Approx. Flow Rate: _____ gpm. Sediment Description: FINE GREY
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 17.50

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm µS)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1010</u>	<u>1</u>	<u>6.32</u>	<u>.508</u>	<u>13.8</u>		
<u>1020</u>	<u>2</u>	<u>6.32</u>	<u>.508</u>	<u>13.6</u>		
<u>1030</u>	<u>3</u>	<u>6.32</u>	<u>.508</u>	<u>13.5</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-9	<u>3</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8021)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc

COMMENTS: _____

Add/Replaced Lock: X Add/Replaced Plug: X Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-0129 Job Number: 386649
 Site Address: 4700 Brooklyn Avenue Event Date: 6.2.12 (inclusive)
 City: Seattle, WA Sampler: J.P.

Well ID: MW-1φ Date Monitored: 6.2.12

Well Diameter: 2 in.

Total Depth: 21.4φ ft.

Depth to Water: 16.2φ ft.

Volume	3/4" = 0.02	1" = 0.04	<u>2" = 0.17</u>	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: x3 case volume = Estimated Purge Volume: gal.

Purge Equipment:

- Disposable Bailer
- Stainless Steel Bailer
- Stack Pump
- Suction Pump
- Grundfos
- Peristaltic Pump
- QED Bladder Pump
- Other:

Sampling Equipment:

- Disposable Bailer
- Pressure Bailer
- Discrete Bailer
- Peristaltic Pump
- QED Bladder Pump
- Other:

Time Started: 0615 (2400 hrs)
 Time Completed: 0525 (2400 hrs)
 Depth to Product: 16.2φ ft
 Depth to Water: 16.2φ ft
 Hydrocarbon Thickness: .2φ ft
 Visual Confirmation/Description: YELLOWISH - CLEAR
 Skimmer Absorbent Sock (circle one)
 Amt Removed from Skimmer: φ gal
 Amt Removed from Well: φ gal
 Water Removed: φ gal
 Product Transferred to: φ

Start Time (purge): Weather Conditions:
 Sample Time/Date: / Water Color: Odor: Y / N
 Approx. Flow Rate: gpm. Sediment Description:
 Did well de-water? If yes, Time: Volume: gal. DTW @ Sampling:

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8021)
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc

COMMENTS:

Add/Replaced Lock: Add/Replaced Plug: Add/Replaced Bolt:



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-0129 Job Number: 386649
 Site Address: 4700 Brooklyn Avenue Event Date: 6.2.12 (inclusive)
 City: Seattle, WA Sampler: J.P.

Well ID: MW-11 Date Monitored: 6.2.12

Well Diameter: 2 in.
 Total Depth: 22.6 ft.
 Depth to Water: 15.55 ft.
 Volume Factor (VF): 3/4"= 0.02, 1"= 0.04, 2"= 0.17, 3"= 0.38, 4"= 0.66, 5"= 1.02, 6"= 1.50, 12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: xVF = x3 case volume = Estimated Purge Volume: gal.

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer
 Stack Pump
 Suction Pump
 Grundfos
 Peristaltic Pump
 QED Bladder Pump
 Other:

Sampling Equipment:

Disposable Bailer
 Pressure Bailer
 Discrete Bailer
 Peristaltic Pump
 QED Bladder Pump
 Other:

Time Started: 0530 (2400 hrs)
 Time Completed: 0540 (2400 hrs)
 Depth to Product: 15.35 ft
 Depth to Water: 15.55 ft
 Hydrocarbon Thickness: .20 ft
 Visual Confirmation/Description: YELLOW OIL W/ R
 Skimmer/Absorbent Sock (circle one)
 Amt Removed from Skimmer: 0 gal
 Amt Removed from Well: 0 gal
 Water Removed: 0 gal
 Product Transferred to: 0 gal

Start Time (purge): Weather Conditions:
 Sample Time/Date: Water Color: Odor: Y / N
 Approx. Flow Rate: gpm. Sediment Description:
 Did well de-water? If yes, Time: Volume: gal. DTW @ Sampling:

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x vial	YES	HCL	LANCASTER	NWTPH-G/BTEX+MTBE(8Q21)
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc

COMMENTS: 5PH

Add/Replaced Lock: Add/Replaced Plug: Add/Replaced Bolt:



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-0129 Job Number: 386649
 Site Address: 4700 Brooklyn Avenue Event Date: 6.2.12 (inclusive)
 City: Seattle, WA Sampler: J.P.

Well ID: MW-12
 Well Diameter: 2 in.
 Total Depth: 21.15 ft.
 Depth to Water: 20.90 ft.
.25 xVF = - = - x3 case volume = Estimated Purge Volume: - gal.

Date Monitored: 6.2.12

Volume	3/4"= 0.02	1"= 0.04	<u>2"= 0.17</u>	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: -

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: _____ Water Color: _____ Odor: Y / N
 Approx. Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8021)
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-0129 Job Number: 386649
 Site Address: 4700 Brooklyn Avenue Event Date: 6-2-12 (inclusive)
 City: Seattle, WA Sampler: JF

Well ID: MW-13 Date Monitored: 6-2-12

Well Diameter: 2 in.

Total Depth: 19.4 ft.

Depth to Water: 15.6 ft.

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	<u>2" = 0.17</u>	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

3.8 x VF .17 = .64 x3 case volume = Estimated Purge Volume: 2 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.36

Purge Equipment:

Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1030 Weather Conditions: Overcast
 Sample Time/Date: 1100 6-2-12 Water Color: Clear Odor: Y/N
 Approx. Flow Rate: _____ gpm. Sediment Description: None
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 16.6

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C F)	D.O. (mg/L)	ORP (mV)
<u>1040</u>	<u>1</u>	<u>6.36</u>	<u>.495</u>	<u>13.8</u>		
<u>1050</u>	<u>2</u>	<u>6.36</u>	<u>.496</u>	<u>13.6</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-13	<u>3</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8021)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc

COMMENTS:

Add/Replaced Lock: X Add/Replaced Plug: X Add/Replaced Bolt: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-0129 Job Number: 386649
 Site Address: 4700 Brooklyn Avenue Event Date: 6.2.12 (inclusive)
 City: Seattle, WA Sampler: JT

Well ID: MW-14
 Well Diameter: 2 in.
 Total Depth: 23.06 ft.
 Depth to Water: 19.20 ft.
1.86 xVF .17 = .81

Date Monitored: 6.2.12

Volume	3/4"= 0.02	1"= 0.04	<u>2"= 0.17</u>	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 19.17 gal.

Purge Equipment:

Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1245 Weather Conditions: Overcast
 Sample Time/Date: 1315 / 6.2.12 Water Color: Clear Odor: (Y) / N MILD
 Approx. Flow Rate: _____ gpm. Sediment Description: NONE
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 18.50

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1255</u>	<u>1</u>	<u>6.30</u>	<u>.290</u>	<u>13.3</u>		
<u>1305</u>	<u>2</u>	<u>6.30</u>	<u>.290</u>	<u>13.2</u>		
<u>1312</u>	<u>3</u>	<u>6.30</u>	<u>.290</u>	<u>13.1</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-14	<u>3</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8021)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc

COMMENTS:

Add/Replaced Lock: X Add/Replaced Plug: X Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-0129 Job Number: 386649
 Site Address: 4700 Brooklyn Avenue Event Date: 6.2.12 (inclusive)
 City: Seattle, WA Sampler: J.P.

Well ID: MW-15 Date Monitored: 6.2.12

Well Diameter: 2 in.

Total Depth: 24.65 ft.

Depth to Water: 16.80 ft.

Volume	3/4" = 0.02	1" = 0.04	<u>2" = 0.17</u>	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 18.35
 xVF 0.17 = 1.3 x3 case volume = Estimated Purge Volume: 4 gal.

Purge Equipment:

Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____ gal
 Product Transferred to: _____

Start Time (purge): 12:00 Weather Conditions: Overcast
 Sample Time/Date: 12:30 / 6.2.12 Water Color: Clear Odor: Y / (N)
 Approx. Flow Rate: _____ gpm. Sediment Description: NONE
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 17.00

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C F)	D.O. (mg/L)	ORP (mV)
<u>12:00</u>	<u>2</u>	<u>6.80</u>	<u>.298</u>	<u>13.5</u>		
<u>12:16</u>	<u>3</u>	<u>6.80</u>	<u>.298</u>	<u>13.4</u>		
<u>12:24</u>	<u>4</u>	<u>6.80</u>	<u>.298</u>	<u>13.3</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-15</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8021)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc

COMMENTS:

L. G. MOLEY

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-0129 Job Number: 386649
 Site Address: 4700 Brooklyn Avenue Event Date: 6.2.12 (inclusive)
 City: Seattle, WA Sampler: J.P.

Well ID: MW-14
 Well Diameter: 2 in.
 Total Depth: 21.60 ft.
 Depth to Water: 16.45 ft.
8.05 xVF = .17 = 1.3

Date Monitored: 6.2.12

Volume	3/4" = 0.02	1" = 0.04	<u>2" = 0.17</u>	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 18.06 gal.

Purge Equipment:

Disposable Bailer ✓
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer ✓
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 12:30 Weather Conditions: Overcast
 Sample Time/Date: 14:00 / 6.2.12 Water Color: Clear Odor: Y / N
 Approx. Flow Rate: _____ gpm. Sediment Description: None
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 17.00

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>13:40</u>	<u>3</u>	<u>6.76</u>	<u>.315</u>	<u>13.2</u>		
<u>13:47</u>	<u>4</u>	<u>6.76</u>	<u>.315</u>	<u>13.0</u>		
<u>13:55</u>	<u>5</u>	<u>6.76</u>	<u>.315</u>	<u>12.9</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-14	<u>3</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8021)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc

COMMENTS:

J.P. 6/2/12

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

Chevron Northwest Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only

Acct. #: _____ Sample #: _____ SCR#: _____

Facility #: <u>SS#9-0129-OML G-R#386649</u> Site Address: <u>4700 Brooklyn Avenue, SEATTLE, WA</u> Chevron PM: <u>MHO</u> Lead Consultant: <u>SAICRO Otterman</u> Consultant/Office: <u>G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568</u> Consultant Prj. Mgr.: <u>Deanna L. Harding (deanna@grinc.com)</u> Consultant Phone #: <u>925-551-7555</u> Fax #: <u>925-551-7899</u> Sampler: _____ Service Order #: _____ <input type="checkbox"/> Non SAR: _____				Matrix Soil <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Air <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/>		Analyses Requested Preservation Codes BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input type="checkbox"/> Naphth <input type="checkbox"/> 8260 full scan <input type="checkbox"/> Oxygenates <input type="checkbox"/> TPH G <input type="checkbox"/> TPH D <input type="checkbox"/> Extended Rtg. <input type="checkbox"/> Silica Gel Cleanup <input type="checkbox"/> Lead Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method <input type="checkbox"/> VP/HEPH <input type="checkbox"/> NWTPH H HClD <input type="checkbox"/> quantification <input type="checkbox"/>										Preservative Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy s on highest hit <input type="checkbox"/> Run ___ oxy s on all hits						
Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8021	8260	Naphth	Oxygenates	TPH G	TPH D	Lead Total	Diss.	Method	VP/HEPH	NWTPH H HClD	quantification	Comments / Remarks
Q.A	6-7-12		x			x			2	x				x								Please forward the lab results directly to the Lead Consultant and cc: G-R.
NW-2	6-7-12	0920	x			x			5	x				x								
NW-3		0700	x			x			5	x				x								
NW-4		0940	x			x			5	x				x								
NW-5		0900	x			x			5	x				x								
NW-7		1140	x			x			5	x				x								
NW-6		0740	x			x			5	x				x								
NW-9		1020	x			x			5	x				x								
NW-13		1100	x			x			5	x				x								
NW-14		1315	x			x			5	x				x								
NW-15		1230	x			x			5	x				x								
NW-16		1400	x			x			5	x				x								
Turnaround Time Requested (TAT) (please circle) STD. TAT 72 hour 48 hour 24 hour 4 day 5 day					Relinquished by: _____ Date: <u>6-5-12</u> Time: <u>1100</u> Relinquished by: _____ Date: _____ Time: _____					Received by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____												
Data Package Options (please circle if required) EDF/EDD QC Summary Type I - Full Type VI (Raw Data) Disk / EDD WIP (RWQCB) Standard Format Disk _____ Other.					Relinquished by: _____ Date: _____ Time: _____ Relinquished by Commercial Carrier: _____ UPS FedEx Other _____					Received by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____												
Temperature Upon Receipt _____ C°										Custody Seals Intact? Yes No												

Attachment B:
Laboratory Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

June 19, 2012

Project: 90129

Submittal Date: 06/06/2012
Group Number: 1313787
PO Number: 0015103600
Release Number: HORNE
State of Sample Origin: WA

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
QA Water Sample	6678133
MW-2 Grab Water Sample	6678134
MW-3 Grab Water Sample	6678135
MW-4 Grab Water Sample	6678136
MW-5 Grab Water Sample	6678137
MW-7 Grab Water Sample	6678138
MW-6 Grab Water Sample	6678139
MW-9 Grab Water Sample	6678140
MW-13 Grab Water Sample	6678141
MW-14 Grab Water Sample	6678142
MW-15 Grab Water Sample	6678143
MW-16 Grab Water Sample	6678144

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

ELECTRONIC COPY TO	SAIC c/o Gettler-Ryan	Attn: Rachelle Munoz
ELECTRONIC COPY TO	SAIC	Attn: Jamalyn Green
ELECTRONIC COPY TO	SAIC	Attn: Ruth Otteman

Respectfully Submitted,



Jill M. Parker
Senior Specialist

(717) 556-7262

Sample Description: QA Water Sample
Facility# 90129 Job# 386649
4700 Brooklyn Avenue - Seattle, WA

LLI Sample # WW 6678133
LLI Group # 1313787
Account # 11260

Project Name: 90129

Collected: 06/02/2012

Chevron

Submitted: 06/06/2012 09:05

6001 Bollinger Canyon Road

Reported: 06/19/2012 10:56

L4310

San Ramon CA 94583

BASQA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Volatiles					
	ECY 97-602 NWTPH-Gx		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Volatiles					
	SW-846 8021B		ug/l	ug/l	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	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
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12159A94A	06/08/2012 15:11	Marie D John	1
02102	Method 8021 Water Master	SW-846 8021B	1	12159A94A	06/08/2012 15:11	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12159A94A	06/08/2012 15:11	Marie D John	1

Sample Description: MW-2 Grab Water Sample
Facility# 90129 Job# 386649
4700 Brooklyn Avenue - Seattle, WA

LLI Sample # WW 6678134
LLI Group # 1313787
Account # 11260

Project Name: 90129

Collected: 06/02/2012 08:20 by JP

Chevron

6001 Bollinger Canyon Road

Submitted: 06/06/2012 09:05

L4310

Reported: 06/19/2012 10:56

San Ramon CA 94583

BAS02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Volatiles					
	ECY 97-602 NWTPH-Gx		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Volatiles					
	SW-846 8021B		ug/l	ug/l	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1
GC Petroleum					
	ECY 97-602 NWTPH-Dx		ug/l	ug/l	
Hydrocarbons w/Si modified					
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	68	1
The reverse surrogate, capric acid, is present at <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
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12159A94A	06/08/2012 21:08	Marie D John	1
02102	Method 8021 Water Master	SW-846 8021B	1	12159A94A	06/08/2012 21:08	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12159A94A	06/08/2012 21:08	Marie D John	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	121610010A	06/14/2012 18:48	Tracy A Cole	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	121610010A	06/11/2012 10:45	Denise L Trimby	1

Sample Description: MW-3 Grab Water Sample
Facility# 90129 Job# 386649
4700 Brooklyn Avenue - Seattle, WA

LLI Sample # WW 6678135
LLI Group # 1313787
Account # 11260

Project Name: 90129

Collected: 06/02/2012 07:00 by JP

Chevron

6001 Bollinger Canyon Road

Submitted: 06/06/2012 09:05

L4310

Reported: 06/19/2012 10:56

San Ramon CA 94583

BAS03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Volatiles					
	ECY 97-602 NWTPH-Gx		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	4,200	50	1
GC Volatiles					
	SW-846 8021B		ug/l	ug/l	
02102	Benzene	71-43-2	68	0.5	1
02102	Ethylbenzene	100-41-4	340	0.5	1
02102	Methyl tert-Butyl Ether	1634-04-4	73	2.5	1
02102	Toluene	108-88-3	48	0.5	1
02102	Total Xylenes	1330-20-7	170	1.5	1
GC Petroleum					
	ECY 97-602 NWTPH-Dx		ug/l	ug/l	
Hydrocarbons w/Si modified					
12005	DRO C12-C24 w/Si Gel	n.a.	110	31	1
12005	HRO C24-C40 w/Si Gel	n.a.	93	72	1
The reverse surrogate, capric acid, is present at <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
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12159A94A	06/08/2012 23:16	Marie D John	1
02102	Method 8021 Water Master	SW-846 8021B	1	12159A94A	06/08/2012 23:16	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12159A94A	06/08/2012 23:16	Marie D John	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	121610010A	06/14/2012 19:10	Tracy A Cole	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	121610010A	06/11/2012 10:45	Denise L Trimby	1

Sample Description: MW-4 Grab Water Sample
Facility# 90129 Job# 386649
4700 Brooklyn Avenue - Seattle, WA

LLI Sample # WW 6678136
LLI Group # 1313787
Account # 11260

Project Name: 90129

Collected: 06/02/2012 09:40 by JP

Chevron

6001 Bollinger Canyon Road

Submitted: 06/06/2012 09:05

L4310

Reported: 06/19/2012 10:56

San Ramon CA 94583

BAS04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Volatiles					
	ECY 97-602 NWTPH-Gx		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	1,800	50	1
GC Volatiles					
	SW-846 8021B		ug/l	ug/l	
02102	Benzene	71-43-2	79	0.5	1
02102	Ethylbenzene	100-41-4	30	0.5	1
02102	Methyl tert-Butyl Ether	1634-04-4	14	2.5	1
02102	Toluene	108-88-3	3.1	0.5	1
02102	Total Xylenes	1330-20-7	20	1.5	1
GC Petroleum					
	ECY 97-602 NWTPH-Dx		ug/l	ug/l	
Hydrocarbons w/Si modified					
12005	DRO C12-C24 w/Si Gel	n.a.	510	31	1
12005	HRO C24-C40 w/Si Gel	n.a.	160	73	1
The reverse surrogate, capric acid, is present at <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
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12159A94A	06/08/2012 23:41	Marie D John	1
02102	Method 8021 Water Master	SW-846 8021B	1	12159A94A	06/08/2012 23:41	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12159A94A	06/08/2012 23:41	Marie D John	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	121610010A	06/14/2012 19:33	Tracy A Cole	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	121610010A	06/11/2012 10:45	Denise L Trimby	1

Sample Description: MW-5 Grab Water Sample
Facility# 90129 Job# 386649
4700 Brooklyn Avenue - Seattle, WA

LLI Sample # WW 6678137
LLI Group # 1313787
Account # 11260

Project Name: 90129

Collected: 06/02/2012 09:00 by JP

Chevron

6001 Bollinger Canyon Road

Submitted: 06/06/2012 09:05

L4310

Reported: 06/19/2012 10:56

San Ramon CA 94583

BAS05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Volatiles					
	ECY 97-602 NWTPH-Gx		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Volatiles					
	SW-846 8021B		ug/l	ug/l	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1
GC Petroleum					
	ECY 97-602 NWTPH-Dx		ug/l	ug/l	
Hydrocarbons w/Si modified					
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	68	1
The reverse surrogate, capric acid, is present at <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
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12159A94A	06/08/2012 21:33	Marie D John	1
02102	Method 8021 Water Master	SW-846 8021B	1	12159A94A	06/08/2012 21:33	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12159A94A	06/08/2012 21:33	Marie D John	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	121610010A	06/14/2012 19:56	Tracy A Cole	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	121610010A	06/11/2012 10:45	Denise L Trimby	1

Sample Description: MW-7 Grab Water Sample
Facility# 90129 Job# 386649
4700 Brooklyn Avenue - Seattle, WA

LLI Sample # WW 6678138
LLI Group # 1313787
Account # 11260

Project Name: 90129

Collected: 06/02/2012 11:40 by JP

Chevron

6001 Bollinger Canyon Road

Submitted: 06/06/2012 09:05

L4310

Reported: 06/19/2012 10:56

San Ramon CA 94583

BAS07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Volatiles					
	ECY 97-602 NWTPH-Gx		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	100	50	1
GC Volatiles					
	SW-846 8021B		ug/l	ug/l	
02102	Benzene	71-43-2	1.3	0.5	1
02102	Ethylbenzene	100-41-4	1.1	0.5	1
02102	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1
GC Petroleum					
	ECY 97-602 NWTPH-Dx		ug/l	ug/l	
Hydrocarbons w/Si modified					
12005	DRO C12-C24 w/Si Gel	n.a.	44	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	170	68	1
The reverse surrogate, capric acid, is present at <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
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12159A94A	06/08/2012 21:59	Marie D John	1
02102	Method 8021 Water Master	SW-846 8021B	1	12159A94A	06/08/2012 21:59	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12159A94A	06/08/2012 21:59	Marie D John	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	121610010A	06/14/2012 20:18	Tracy A Cole	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	121610010A	06/11/2012 10:45	Denise L Trimby	1

Sample Description: MW-6 Grab Water Sample
Facility# 90129 Job# 386649
4700 Brooklyn Avenue - Seattle, WA

LLI Sample # WW 6678139
LLI Group # 1313787
Account # 11260

Project Name: 90129

Collected: 06/02/2012 07:40 by JP

Chevron

6001 Bollinger Canyon Road

Submitted: 06/06/2012 09:05

L4310

Reported: 06/19/2012 10:56

San Ramon CA 94583

BAS06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Volatiles					
	ECY 97-602 NWTPH-Gx		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	1,300	50	1
GC Volatiles					
	SW-846 8021B		ug/l	ug/l	
02102	Benzene	71-43-2	1.8	0.5	1
02102	Ethylbenzene	100-41-4	3.1	0.5	1
02102	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	1
02102	Toluene	108-88-3	1.3	0.5	1
02102	Total Xylenes	1330-20-7	18	1.5	1
GC Petroleum					
	ECY 97-602 NWTPH-Dx		ug/l	ug/l	
Hydrocarbons w/Si modified					
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	67	1

The reverse surrogate, capric acid, is present at <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
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12159A94A	06/08/2012 22:25	Marie D John	1
02102	Method 8021 Water Master	SW-846 8021B	1	12159A94A	06/08/2012 22:25	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12159A94A	06/08/2012 22:25	Marie D John	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	121610012A	06/12/2012 19:30	Tracy A Cole	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	121610012A	06/11/2012 08:00	Olivia Arosemena	1

Sample Description: MW-9 Grab Water Sample
Facility# 90129 Job# 386649
4700 Brooklyn Avenue - Seattle, WA

LLI Sample # WW 6678140
LLI Group # 1313787
Account # 11260

Project Name: 90129

Collected: 06/02/2012 10:20 by JP

Chevron

6001 Bollinger Canyon Road

Submitted: 06/06/2012 09:05

L4310

Reported: 06/19/2012 10:56

San Ramon CA 94583

BAS09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Volatiles					
	ECY 97-602 NWTPH-Gx		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	8,900	250	5
GC Volatiles					
	SW-846 8021B		ug/l	ug/l	
02102	Benzene	71-43-2	120	0.5	1
02102	Ethylbenzene	100-41-4	210	0.5	1
02102	Methyl tert-Butyl Ether	1634-04-4	26	2.5	1
02102	Toluene	108-88-3	16	0.5	1
02102	Total Xylenes	1330-20-7	300	1.5	1
GC Petroleum					
	ECY 97-602 NWTPH-Dx		ug/l	ug/l	
Hydrocarbons w/Si modified					
12005	DRO C12-C24 w/Si Gel	n.a.	1,100	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	240	67	1

Due to the presence of fuel in the sample extract, capric acid recovery can not be determined.

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
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12159A94A	06/09/2012 09:32	Marie D John	5
02102	Method 8021 Water Master	SW-846 8021B	1	12159A94A	06/08/2012 22:50	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12159A94A	06/08/2012 22:50	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	2	12159A94A	06/09/2012 09:32	Marie D John	5
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	121610012A	06/12/2012 19:53	Tracy A Cole	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	121610012A	06/11/2012 08:00	Olivia Arosemena	1

Sample Description: MW-13 Grab Water Sample
Facility# 90129 Job# 386649
4700 Brooklyn Avenue - Seattle, WA

LLI Sample # WW 6678141
LLI Group # 1313787
Account # 11260

Project Name: 90129

Collected: 06/02/2012 11:00 by JP

Chevron

6001 Bollinger Canyon Road

Submitted: 06/06/2012 09:05

L4310

Reported: 06/19/2012 10:56

San Ramon CA 94583

BAS13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Volatiles ECY 97-602 NWTPH-Gx ug/l					
08274	NWTPH-Gx water C7-C12	n.a.	4,200	250	1
GC Volatiles SW-846 8021B ug/l					
02102	Benzene	71-43-2	140	2.5	1
02102	Ethylbenzene	100-41-4	110	2.5	1
02102	Methyl tert-Butyl Ether	1634-04-4	33	13	1
02102	Toluene	108-88-3	7.8	2.5	1
02102	Total Xylenes	1330-20-7	83	7.5	1
GC Petroleum ECY 97-602 NWTPH-Dx ug/l					
Hydrocarbons w/Si modified					
12005	DRO C12-C24 w/Si Gel	n.a.	3,300	30	1
12005	HRO C24-C40 w/Si Gel	n.a.	240	69	1

Due to the presence of fuel in the sample extract, capric acid recovery can not be determined.

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
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12163A94B	06/13/2012 13:17	Carrie E Miller	1
02102	Method 8021 Water Master	SW-846 8021B	1	12163A94B	06/13/2012 13:17	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	12163A94B	06/13/2012 13:17	Carrie E Miller	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	121610012A	06/13/2012 12:28	Tracy A Cole	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	121610012A	06/11/2012 08:00	Olivia Arosemena	1

Sample Description: MW-14 Grab Water Sample
Facility# 90129 Job# 386649
4700 Brooklyn Avenue - Seattle, WA

LLI Sample # WW 6678142
LLI Group # 1313787
Account # 11260

Project Name: 90129

Collected: 06/02/2012 13:15 by JP

Chevron

6001 Bollinger Canyon Road

Submitted: 06/06/2012 09:05

L4310

Reported: 06/19/2012 10:56

San Ramon CA 94583

BAS14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Volatiles ECY 97-602 NWTPH-Gx ug/l					
08274	NWTPH-Gx water C7-C12	n.a.	3,700	50	1
GC Volatiles SW-846 8021B ug/l					
02102	Benzene	71-43-2	500	2.5	5
02102	Ethylbenzene	100-41-4	280	0.5	1
02102	Methyl tert-Butyl Ether	1634-04-4	48	2.5	1
02102	Toluene	108-88-3	18	0.5	1
02102	Total Xylenes	1330-20-7	31	1.5	1
GC Petroleum ECY 97-602 NWTPH-Dx ug/l					
Hydrocarbons w/Si modified					
12005	DRO C12-C24 w/Si Gel	n.a.	79	31	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	72	1

The reverse surrogate, capric acid, is present at <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
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12163A94B	06/13/2012 12:01	Carrie E Miller	1
02102	Method 8021 Water Master	SW-846 8021B	1	12163A94A	06/12/2012 22:40	Marie D John	5
02102	Method 8021 Water Master	SW-846 8021B	1	12163A94B	06/13/2012 12:01	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	12163A94A	06/12/2012 22:40	Marie D John	5
01146	GC VOA Water Prep	SW-846 5030B	2	12163A94B	06/13/2012 12:01	Carrie E Miller	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	121610012A	06/12/2012 20:16	Tracy A Cole	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	121610012A	06/11/2012 08:00	Olivia Arosemena	1

Sample Description: MW-15 Grab Water Sample
Facility# 90129 Job# 386649
4700 Brooklyn Avenue - Seattle, WA

LLI Sample # WW 6678143
LLI Group # 1313787
Account # 11260

Project Name: 90129

Collected: 06/02/2012 12:30 by JP

Chevron

6001 Bollinger Canyon Road

Submitted: 06/06/2012 09:05

L4310

Reported: 06/19/2012 10:56

San Ramon CA 94583

BAS15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Volatiles					
	ECY 97-602 NWTPH-Gx		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Volatiles					
	SW-846 8021B		ug/l	ug/l	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1
GC Petroleum					
	ECY 97-602 NWTPH-Dx		ug/l	ug/l	
Hydrocarbons w/Si modified					
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	30	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	70	1
The reverse surrogate, capric acid, is present at <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
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12163A94A	06/12/2012 15:00	Marie D John	1
02102	Method 8021 Water Master	SW-846 8021B	1	12163A94A	06/12/2012 15:00	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12163A94A	06/12/2012 15:00	Marie D John	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	121610012A	06/13/2012 11:43	Tracy A Cole	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	121610012A	06/11/2012 08:00	Olivia Arosemena	1

Sample Description: MW-16 Grab Water Sample
Facility# 90129 Job# 386649
4700 Brooklyn Avenue - Seattle, WA

LLI Sample # WW 6678144
LLI Group # 1313787
Account # 11260

Project Name: 90129

Collected: 06/02/2012 14:00 by JP

Chevron

6001 Bollinger Canyon Road

Submitted: 06/06/2012 09:05

L4310

Reported: 06/19/2012 10:56

San Ramon CA 94583

BAS16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Volatiles			ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	3,600	50	1
GC Volatiles			ug/l	ug/l	
02102	Benzene	71-43-2	530	2.5	5
02102	Ethylbenzene	100-41-4	270	0.5	1
02102	Methyl tert-Butyl Ether	1634-04-4	46	2.5	1
02102	Toluene	108-88-3	18	0.5	1
02102	Total Xylenes	1330-20-7	28	1.5	1
GC Petroleum			ug/l	ug/l	
Hydrocarbons w/Si modified					
12005	DRO C12-C24 w/Si Gel	n.a.	56	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	68	1

The reverse surrogate, capric acid, is present at <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
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12163A94B	06/13/2012 12:26	Carrie E Miller	1
02102	Method 8021 Water Master	SW-846 8021B	1	12163A94A	06/12/2012 23:06	Marie D John	5
02102	Method 8021 Water Master	SW-846 8021B	1	12163A94B	06/13/2012 12:26	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	12163A94A	06/12/2012 23:06	Marie D John	5
01146	GC VOA Water Prep	SW-846 5030B	2	12163A94B	06/13/2012 12:26	Carrie E Miller	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	121610012A	06/13/2012 12:06	Tracy A Cole	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	121610012A	06/11/2012 08:00	Olivia Arosemena	1

Quality Control Summary

Client Name: Chevron
Reported: 06/19/12 at 10:56 AM

Group Number: 1313787

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: 12159A94A	Sample number(s): 6678133-6678140							
Benzene	N.D.	0.5	ug/l	100	100	80-120	0	30
Ethylbenzene	N.D.	0.5	ug/l	100	105	80-120	5	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	85	90	79-120	6	30
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	91	91	75-135	0	30
Toluene	N.D.	0.5	ug/l	95	100	80-120	5	30
Total Xylenes	N.D.	1.5	ug/l	103	103	80-120	0	30
Batch number: 12163A94A	Sample number(s): 6678142-6678144							
Benzene	N.D.	0.5	ug/l	100	105	80-120	5	30
Ethylbenzene	N.D.	0.5	ug/l	100	105	80-120	5	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	80	90	79-120	12	30
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	91	91	75-135	0	30
Toluene	N.D.	0.5	ug/l	100	100	80-120	0	30
Total Xylenes	N.D.	1.5	ug/l	103	107	80-120	3	30
Batch number: 12163A94B	Sample number(s): 6678141-6678142, 6678144							
Benzene	N.D.	0.5	ug/l	100	105	80-120	5	30
Ethylbenzene	N.D.	0.5	ug/l	100	105	80-120	5	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	80	90	79-120	12	30
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	91	91	75-135	0	30
Toluene	N.D.	0.5	ug/l	100	100	80-120	0	30
Total Xylenes	N.D.	1.5	ug/l	103	107	80-120	3	30
Batch number: 121610010A	Sample number(s): 6678134-6678138							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	63	69	50-120	10	20
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					
Batch number: 121610012A	Sample number(s): 6678139-6678144							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	56	62	50-120	10	20
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					

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: Method 8021 Water Master
Batch number: 12159A94A
Trifluorotoluene-P Trifluorotoluene-F

*- 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: 06/19/12 at 10:56 AM

Group Number: 1313787

Surrogate Quality Control

6678133	85	75
6678134	85	87
6678135	102	119
6678136	85	100
6678137	84	76
6678138	85	86
6678139	88	95
6678140	85	87
Blank	84	75
LCS	84	92
LCSD	84	89

Limits: 51-120 63-135

Analysis Name: Method 8021 Water Master
Batch number: 12163A94A
Trifluorotoluene-P Trifluorotoluene-F

6678143	85	76
Blank	84	76
LCS	85	89
LCSD	84	92

Limits: 51-120 63-135

Analysis Name: Method 8021 Water Master
Batch number: 12163A94B
Trifluorotoluene-P Trifluorotoluene-F

6678141	76	76
6678142	98	133
6678144	97	133
Blank	84	75
LCS	85	89
LCSD	84	92

Limits: 51-120 63-135

Analysis Name: NWTPH-Dx water w/ 10g Si Gel
Batch number: 121610010A
Orthoterphenyl

6678134	69
6678135	86
6678136	68
6678137	85
6678138	75
Blank	88
LCS	79
LCSD	94

Limits: 50-150

Analysis Name: NWTPH-Dx water w/ 10g Si Gel
Batch number: 121610012A
Orthoterphenyl

*- 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: 06/19/12 at 10:56 AM

Group Number: 1313787

Surrogate Quality Control

6678139	81
6678140	58
6678141	60
6678142	85
6678143	82
6678144	81
Blank	80
LCS	72
LCSD	73

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.

Chevron Northwest Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only
 Acct. #: 11260 Sample #: 6678133-44 SCR#: _____

Q# 1313787

Facility #: SS#9-0129-OML G-R#386649
 Site Address: 4700 Brooklyn Avenue, SEATTLE, WA
 Chevron PM: MHO Lead Consultant: SAICRO Ottemann
 Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568
 Consultant Prj. Mgr. Deanna L. Harding (deanna@grinc.com)
 Consultant Phone # 925-551-7555 Fax #: 925-551-7899
 Sampler: J. RAYNE
 Service Order #: _____ Non SAR: _____

Matrix

Soil Potable NPDES
 Water NPDES
 Oil Air

Analyses Requested									
Preservation Codes									
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BTEX + MTBE	8021	8260	Naphth						
8260 full scan									
Oxygenates									
NWTPH G									
NWTPH D									
Lead Total									
VPHEPH									
NWTPH HClID									

Preservative Codes

H = HCl T = Thiosulfate
 N = HNO₃ B = NaOH
 S = H₂SO₄ O = Other

J value reporting needed
 Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation
 Confirm MTBE + Naphthalene
 Confirm highest hit by 8260
 Confirm all hits by 8260
 Run ___ oxy s on highest hit
 Run ___ oxy s on all hits

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE	8021	8260	Naphth	Oxygenates	NWTPH G	NWTPH D	Lead Total	VPHEPH	NWTPH HClID	Quantification	
Q.A.	6.2.12		X			X			2	X					X						
NW.2	6.2.12	0820	X			X			5	X					X	X					
NW.3		0760	X			X			5	X					X	X					
NW.4		0940	X			X			5	X					X	X					
NW.5		0900	X			X			5	X					X	X					
NW.7		1140	X			X			5	X					X	X					
NW.6		0740	X			X			5	X					X	X					
NW.9		1030	X			X			5	X					X	X					
NW.13		1100	X			X			5	X					X	X					
NW.14		1315	X			X			5	X					X	X					
NW.15		1230	X			X			5	X					X	X					
NW.16		1400	X			X			5	X					X	X					

Comments / Remarks

Please forward the lab results directly to the Lead Consultant and cc: G-R.

Turnaround Time Requested (TAT) (please circle)

60 hour 72 hour 48 hour
 24 hour 4 day 5 day

Data Package Options (please circle if required) **EDF/EDD**

QC Summary Type I - Full
 Type VI (Raw Data) Disk / EDD
 WIP (RWQCB) Standard Format
 Disk _____ Other.

Relinquished by: [Signature] Date: 6.5.12 Time: 1100 Received by: _____ Date: _____ Time: _____

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

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

Relinquished by Commercial Carrier: _____ Received by: [Signature] Date: 6/6/12 Time: 905

UPS FedEx Other: _____ Temperature Upon Receipt: 0° 1.3 - 3.5 Custody Seals Intact? Yes No

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		
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.		

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

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

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

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

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

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

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