James Oil Co
Enumclaw
Release 2363

SAIC

RECEIVED

JUL 01 2013

DEPT OF ECOLOGY
TCP - NWRO

June 20, 2013

Donna Musa
Washington State Department of Ecology
3190 160th Ave SE
Bellevue, Washington 98008

Subject: **Fourth Quarter 2012 Groundwater Monitoring and Sampling Report**
Former Unocal Site No. 0964 - 76 Products Facility No. 351393
666 Griffin Avenue
Enumclaw, Washington
Washington State Department of Ecology LUST Program ID # 1565

Ms. Musa,

On behalf of Chevron Environmental Management Company for itself and as Attorney-in-Fact for Union Oil Company of California (EMC), SAIC Energy, Environment & Infrastructure, LLC (SAIC) submits this Groundwater Monitoring and Sampling Report for the above-referenced site. Quarterly groundwater monitoring and sampling activities were conducted by Blaine Tech Services, Inc. (Blaine Tech) on November 29, 2012. The Blaine Tech groundwater monitoring and sampling packages are provided as Attachment A.

ENTERED

FIELD ACTIVITIES

On November 29, 2012, depth to groundwater was measured in wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, and MW-11. The groundwater elevation ranged from 738.53 (MW-5) to 733.53 (MW-11) feet based on a relative to an assigned benchmark. Groundwater flow direction is to the east at a gradient of approximately 0.008 to 0.05 feet per foot (ft/ft). A potentiometric map is shown on Figure 1.

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

SAIC Energy, Environment & Infrastructure, LLC
405 S 8th Street | Suite 301 | Boise, ID 83702 | tel: (208) 344-5001 | fax: (208) 344-5123 | saic.com\eeandi

Groundwater samples were submitted for the following analyses:

- Total petroleum hydrocarbons (TPH) as gasoline-range hydrocarbons by Northwest Method NWTPH-Gx;
- TPH as diesel-range hydrocarbons and TPH as heavy oil-range hydrocarbons by Northwest Method NWTPH-Dx with both quick silica gel/acid cleanup and 10-gram column silica gel/acid cleanup; and
- Benzene, toluene, ethylbenzene, total xylenes, and ethanol by United States Environmental Protection Agency Method 8260B.

Laboratory analytical results are included as Attachment B and groundwater analytical results are summarized in Table 1.

RESULTS

The results of the fourth quarter 2012 sampling event indicate that petroleum-hydrocarbon constituent concentrations are generally consistent with respect to historical data. In addition, the groundwater elevation, flow direction, and gradient appear consistent with historical measurements.

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

- TPH-G was detected in monitoring wells MW-1 and MW-4;
- TPH-D was detected in monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, and MW-6;
- Benzene was detected in monitoring well MW-3.

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

Please contact Don Wyll, the SAIC project manager, at (425) 482-3315 or wylld@saic.com if you have any questions or comments about the information provided herein.

Sincerely,

SAIC Energy, Environment & Infrastructure, LLC

Julie Wartes
Project Scientist

Gabriel Cisneros LG #2357
Geologist

Enclosures:

Figure 1 – Potentiometric Map

Table 1 – Groundwater Monitoring Data and Analytical Results

Attachment A – Groundwater Monitoring and Sampling Data Package

Attachment B – Laboratory Analysis Report

cc: Dan Carrier – Chevron Environmental Management Company
Richard James – James Oil Company, Inc. (electronic)
Donna Musa – Department of Ecology
Project File

REPORT LIMITATIONS

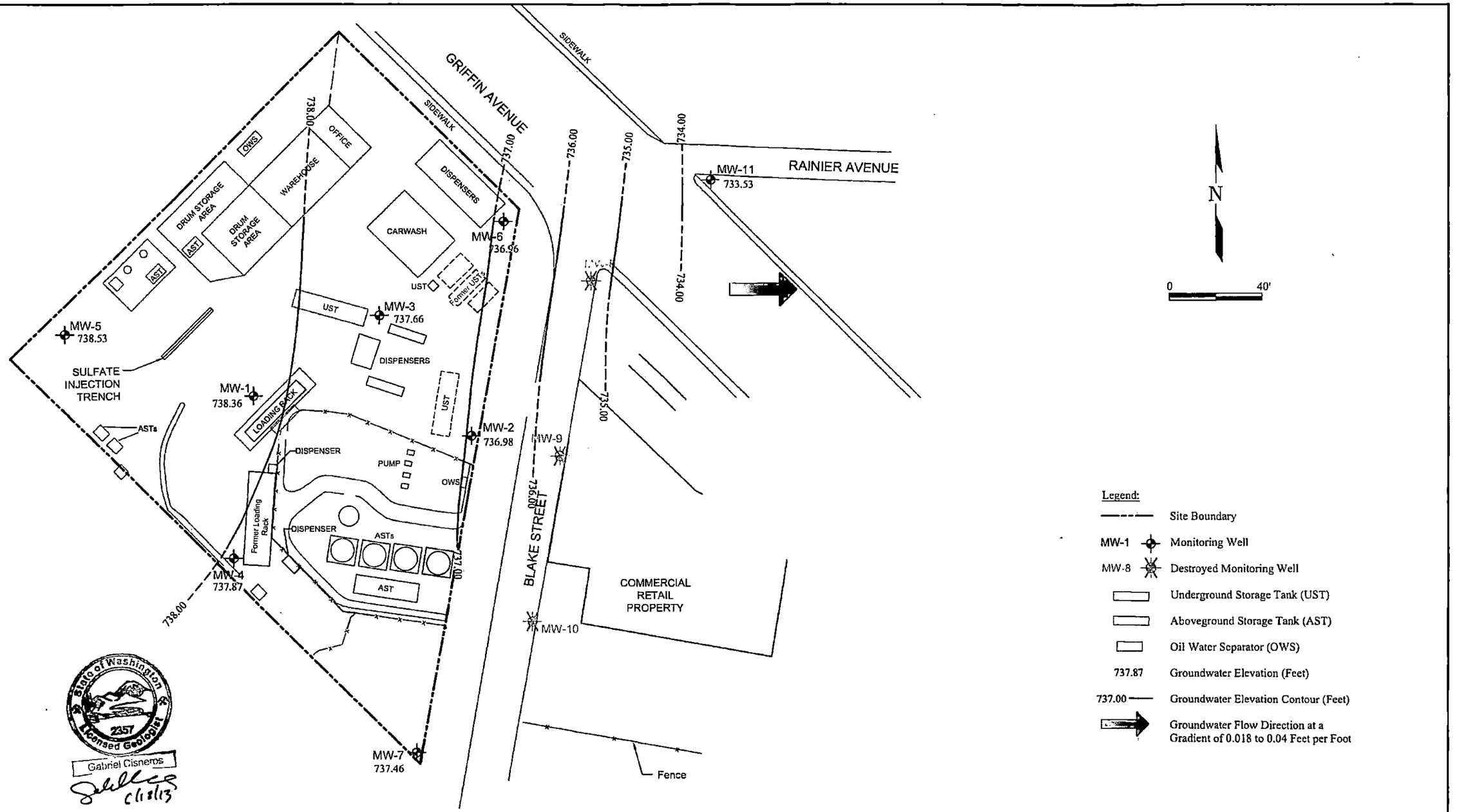
This technical document was prepared on behalf of Chevron and is intended for its sole use and for use by the local, state or federal regulatory agency that the technical document was sent to by SAIC. Any other person or entity obtaining, using, or relying on this technical document hereby acknowledges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

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

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

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

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



State of Washington 2357 Licensed Geologist
Gabriel Cisneros
6/18/13

SAIC

Reference: "Site Plan" by Arcadis, dated January 17, 2012.

76 Products Facility No. 351393
Former Unocal Site No. 0965
666 Griffin Avenue
Enumclaw, Washington

FIGURE 1
Potentiometric Map
November 29, 2012

DATE: 6/6/2013 | DRAWING: 351393 Site Map.dwg

TABLE 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Site No. 351393
666 Griffin Avenue
Enumclaw, Washington
Concentrations reported in (µg/L)

Well ID/Date	TOC	Depth to Water (ft)	GW Elevation (ft)	TPH-G (µg/L)	TPH-D (10-gram Column Cleanup[3]) (µg/L)	TPH-D[2] (µg/L)	TPH-O (10-gram Column Cleanup[3]) (µg/L)	TPH-O[2] (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	EDC (µg/L)	EDB (µg/L)	Ethanol (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MW-1																		
02/16/99	740.28	1.75	738.53	2,550	--	<350	--	<700	111	5.2	8.06	1.23	2.58	--	--	--	--	--
08/30/00	740.28	3.65	736.63	710	--	757	--	<500	23.7	1.81	0.947	<1	<5.00	--	--	--	--	--
11/16/00	740.28	2.32	737.96	2,070	--	388	--	<500	101	<3.85	6.33	<7.40	<5.00	--	--	--	--	--
02/22/01	740.28	2.25	738.03	2,170	--	726	--	<500	90.0	<3.60	14.2	<5	2.54	--	--	--	--	--
05/31/01	740.28	2.48	737.80	3,700	--	<250	--	545	95.6	3.21	9.87	1.14	--	--	--	--	--	--
08/22/01	740.28	4.10	736.18	3,210	--	3,500	--	1,270	124	7.46	14.4	13.9	--	--	--	--	--	--
11/08/01	740.28	2.02	738.26	2,680	--	<250	--	<500	120	4.35	9.33	3.63	--	--	--	--	--	--
02/05/02	740.28	2.09	738.19	3,450	--	<250	--	<500	114	7.35	10.4	<1	Detected	--	--	--	--	--
05/23/02	740.28	2.06	738.22	6,350	--	<250	--	<500	131	<10.0	12.3	<30	<20.0	--	--	--	--	--
08/13/02	740.28	3.28	737.00	3,300	--	540	--	<500	140	8.9	12.0	<15	<50	--	--	--	--	--
11/06/02	740.28	3.62	736.66	3,700	--	340	--	<500	220	14	25	<7.5	<25	--	--	--	--	--
02/05/03	740.28	1.36	738.92	2,930	--	<250	--	<500	91.4	4.27	8.75	5.77	<2	--	--	--	--	--
05/21/03	740.28	1.86	738.42	1,320	--	1,400	--	<500	86.7	3.03	5.63	1.70	<2	--	--	--	--	--
08/20/03	740.28	4.47	735.81	4,960	--	<250	--	<500	107	2.99	8.39	<1	<2	--	--	--	--	--
11/24/03	740.28	2.19	738.09	2,320	--	8,540	--	3,550	93.5	4.16	5.06	2.57	0.83	--	--	--	--	--
02/19/04	740.28	1.55	738.73	4,230	--	2,440	--	1,480	113	<5	6.75	<10	<5	--	--	--	--	--
05/19/04	740.28	2.40	737.88	4,040	--	1,810	--	670	183	10.7	24.6	<10	<5	--	--	--	--	--
08/12/04	740.28	2.59	737.69	2,740	--	939	--	<495	74.4	3.72	3.77	<2	<1	--	--	--	--	--
11/11/04	740.28	1.61	738.67	2,610	--	1,420	--	508	96.3	7.08	8.07	8.73	2.6	--	--	--	--	--
02/21/05	740.28	1.49	738.79	2,760	--	1,390	--	<489	95.1	<10	<10	<20	<10	--	--	--	--	--
05/16/05	740.28	2.23	738.05	2,410	--	884	--	<504	81.5	11.40	8.73	5.67	<5	--	--	--	--	--
07/18/05	740.28	2.37	737.91	1,950	--	1,510	--	955	57.2	4.54	5.28	<2	<1	--	--	--	--	--
09/06/05	740.28	2.82	737.46	1,800	--	2,300	--	670	28	4.0	3.0	3.0	--	--	--	--	--	--
10/20/05	740.28	1.77	738.51	2,200	--	2,600	--	<990	46	4.0	6.0	3.0	<0.5	--	--	--	--	--
11/15/05	740.28	1.51	738.77	1,700	--	2,800	--	1,200	12	3.9	2.3	3.9	--	--	--	--	--	--
12/12/05	740.28	--	--	1,600	--	2,900	--	1,700	12	5.0	2.0	3.0	--	--	--	--	--	--
01/10/06	740.28	--	--	1,700	--	3,200	--	1,500	12	4.0	2.0	3.0	--	--	--	--	--	--
01/23/06	740.28	1.13	739.15	1,900	--	2,300	--	1,080	17	4.0	3.0	2.0	<0.5	--	--	--	--	--
04/12/06	740.28	1.47	738.81	2,000	--	2,200	--	300	17	4.0	1.0	2.0	<0.5	--	--	--	--	--
07/24/06	740.28	3.05	737.23	2,000	--	2,800	--	1,200	13	4.0	2.0	2.0	<0.5	--	--	--	--	--
10/24/06	740.28	2.70	737.58	1,900	--	7,200	--	3,200	25	3.0	2.0	1.0	0.8	--	--	--	--	--
01/30/07	740.28	1.85	738.43	1,300	--	3,400	--	<500	9.0	3.0	2.0	1.0	--	--	--	--	--	--
02/26/07	740.28	1.36	738.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03/12/07	740.28	1.05	739.23	<48	--	1,100	--	430	<0.5	<0.7	<0.8	<0.8	--	--	--	--	--	--
03/26/07	740.28	1.03	739.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/09/07	740.28	1.41	738.87	1,021	--	1,461	--	894	2.56	1.55	1.15	<0.8	--	--	--	--	--	--
04/23/07	740.28	1.65	738.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/26/07	740.28	1.87	738.41	1,437	--	2,171	--	<1,000	11.7	2.79	3.08	1.66	--	--	--	--	--	--
05/07/07	740.28	2.08	738.20	1,700	--	2,300	--	770	9	4	3	3	--	--	--	--	--	--

SAIC

TABLE 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Site No. 351393
666 Griffin Avenue
Enumclaw, Washington
Concentrations reported in (µg/L)

Well ID/Date	TOC	Depth to Water (ft)	GW Elevation (ft)	TPH-G (µg/L)	TPH-D (10-gram Column Cleanup[1]) (µg/L)	TPH-D[2] (µg/L)	TPH-O (10-gram Column Cleanup[1]) (µg/L)	TPH-O[2] (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	EDC (µg/L)	EDB (µg/L)	Ethanol (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MW-1 (cont)																		
05/21/07	740.28	1.71	738.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/04/07	740.28	1.95	738.33	1,600	--	2,900	--	2,300	3	4	2	2	--	--	--	--	--	--
06/18/07	740.28	2.25	738.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/02/07	740.28	1.71	738.57	1,400	--	2,400	--	1,000	2	3	1	4	--	--	--	--	--	--
07/16/07	740.28	2.26	738.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/26/07	740.28	2.22	738.06	1,600	--	3,200	--	1,200	9	2	2	1	--	--	--	--	--	--
07/30/07	740.28	2.22	738.06	1,500	--	3,200	--	1,500	4	3	1	2	--	--	--	--	--	--
10/24/07	740.28	2.01	738.27	1,000	--	4,000	--	1,500	7	3	1	1	<0.5	--	--	--	--	--
01/23/08	740.28	2.35	737.93	1,500	--	4,500	--	<950	9	4	2	3	--	--	--	--	--	--
04/23/08	740.28	1.93	738.35	1,100	--	2,100	--	430	5	3	1	3	--	--	--	--	--	--
07/24/08	740.28	2.92	737.36	1,800	--	2,600	--	320	4	3	0.9	2	<0.5	--	--	--	--	--
10/20/08	740.28	2.25	738.03	1,900	--	3,700	--	1,100	10	3	2	3	--	--	--	--	--	--
01/14/09	740.28	1.60	738.68	1,510	--	150	--	<63	3.9	3.8	1.1	<3.0	--	--	--	--	--	--
01/14/09 Re-extraction - No Cleanup				--	--	1,820	--	2,150	--	--	--	--	--	--	--	--	--	--
01/14/09 Re-extraction - Silica Gel Cleanup				--	--	300	--	470 J	--	--	--	--	--	--	--	--	--	--
04/27/09	740.28	2.35	737.93	1,310 [e]	--	180	--	<420	4.9	4.9	2.2	4.0	<1.0	<1.0	<0.010	--	<1.0	<1.0
07/28/09	740.28	3.66	736.62	2,900	--	144	--	<385	22.5	4.3	5.3	5.7	--	--	--	--	--	--
10/20/09	740.28	2.37	737.91	1,710	--	754	--	<388	21.9	7.3	4.3	9.5	--	--	--	--	--	--
01/18/10	740.28	1.90	737.62	1,830 S2	--	340 [h+,i2]	--	<388	6.8	5.4	2.8	6.4	--	--	--	--	--	--
04/20/10	740.28	1.70	738.58	1620 S2	--	255	--	<388	3	3.7	1.4	3.4	--	--	--	--	--	--
07/19/10	740.28	2.73	738.62	1380 S5	--	249	--	<388	1.6	3.1	1.1	3.6	--	--	--	--	--	--
10/18/10	740.28	2.10	738.18	1,750	--	335	--	<392	5.7	3.7	1.8	3.9	--	--	--	--	--	--
01/25/11	740.28	1.29	739.62	1,900	--	245	--	<392	1.7	3.5	<1.0	3.3	--	--	--	--	--	--
04/11/11	740.28	1.30	738.98	2,510	--	378	--	<392	<1.0	3.0	<1.0	3.4	--	--	--	--	--	--
07/05/11	740.28	1.79	740.62	1,970	--	287	--	<396	<1.0	2.7	<1.0	3.7	--	--	--	--	--	--
11/30/11	740.28	1.91	738.37	1,900	190	1,900	<67	460	3	4	2	3	--	--	--	<50	--	--
03/02/12	740.28	1.63	741.62	1,700	93	2,400	<67	230	2	4	1	3	--	--	--	<50	--	--
05/09/12	740.28	1.84	738.44	1,500	140	980	<71	<71	1	3	0.8	3	--	--	--	<50	--	--
11/29/12	740.28	1.92	742.62	1,900	130	2,600	<70	360	5	4	2	3	--	--	--	<50	--	--
MW-2																		
02/16/99	738.78	1.33	737.45	1,540	--	<350	--	<700	30.7	0.901	2.46	<1.0	NA	--	--	--	--	--
08/30/00	738.78	2.53	736.25	634	--	660	--	<500	27.1	2.23	1.12	<2.00	<10	--	--	--	--	--
11/16/00	738.78	2.07	736.71	994	--	596	--	<500	62.9	<2.80	<1.50	<2.15	<5	--	--	--	--	--
02/22/01	738.78	2.36	736.42	1,240	--	839	--	<500	40.2	2.55	<1.76	1.83	4.29	--	--	--	--	--
05/31/01	738.78	1.93	736.85	1,440	--	<250	--	<500	33.6	2.11	0.76	<1.00	--	--	--	--	--	--
08/22/01	738.78	2.95	735.83	1,020	--	5,280	--	<500	56.2	3.07	0.87	1.09	--	--	--	--	--	--
11/08/01	738.78	1.78	737.00	1,880	--	<250	--	<500	108.0	4.42	1.88	<2.00	--	--	--	--	--	--
02/05/02	738.78	1.73	737.05	1,870	--	<250	--	<500	53.1	5.66	2.40	2.71	Detected	--	--	--	--	--
05/23/02	738.78	1.56	737.22	4,750	--	1,020	--	<500	9.8	2.55	1.37	5.25	<20	--	--	--	--	--
08/13/02	738.78	2.45	736.33	980	--	740	--	<500	21.0	2.40	0.73	<1.5	<5	--	--	--	--	--
11/06/02	738.78	2.58	736.20	1,500	--	430	--	<500	39.0	6.10	2.00	<1.5	<5	--	--	--	--	--
02/05/03	738.78	1.18	737.60	2,180	--	972	--	<500	45.0	3.80	2.32	3.52	<2	--	--	--	--	--

SAIC

TABLE 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Site No. 351393
666 Griffin Avenue
Enumclaw, Washington
Concentrations reported in (µg/L)

Well ID/Date	TOC	Depth to Water (ft)	GW Elevation (ft)	TPH-G (µg/L)	TPH-D (10-gram Column Cleanup[1]) (µg/L)	TPH-D[2] (µg/L)	TPH-O (10-gram Column Cleanup[1]) (µg/L)	TPH-O[2] (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	EDC (µg/L)	EDB (µg/L)	Ethanol (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MW-2 (cont)																		
05/21/03	738.78	1.40	737.38	958	--	2,150	--	<500	15.4	1.87	0.62	<1	<2	--	--	--	--	--
08/20/03	738.78	3.20	735.58	780	--	<250	--	<500	3.77	0.94	<0.500	<1	<2	--	--	--	--	--
11/24/03	738.78	1.36	737.42	1,850	--	9,410	--	1,860	35.2	2.36	1.23	2.03	<0.5	--	--	--	--	--
02/19/04	738.78	1.32	737.46	2,560	--	5,690	--	<247	15.8	<5	<5	<10	<5	--	--	--	--	--
05/19/04	738.78	1.86	736.92	1,590	--	1,530	--	<241	5.62	2.24	1.60	<2	6.28	--	--	--	--	--
08/12/04	738.78	1.72	737.06	1,460	--	2,030	--	<497	1.02	<1	<1	<2	<1	--	--	--	--	--
11/11/04	738.78	1.56	737.22	1,360	--	2,820	--	<474	3.78	<1	<1	<2	2.14	--	--	--	--	--
02/21/05	738.78	1.85	736.93	1,190	--	1,330	--	<491	2.36	<1	<1	<2	<1	--	--	--	--	--
05/16/05	738.78	1.60	737.18	810	--	1,130	--	<526	3.21	1.65	<1	<2	2.48	--	--	--	--	--
07/18/05	738.78	2.40	736.38	1,040	--	878	--	<506	1.03	<1	<1	<2	<1	--	--	--	--	--
09/06/05	738.78	2.18	736.60	770	--	5,550	--	480	1.0	<0.7	<0.8	<0.8	--	--	--	--	--	--
10/20/05	738.78	1.23	737.55	610	--	8,800	--	<500	4.0	0.90	<0.5	0.60	<0.5	--	--	--	--	--
11/15/05	738.78	1.39	737.39	860	--	10,000	--	470	2.5	1.0	0.4	1.3	--	--	--	--	--	--
12/12/05	738.78	--	--	920	--	6,100	--	500	2.0	0.9	<0.8	<0.8	--	--	--	--	--	--
01/10/06	738.78	--	--	850	--	5,500	--	1,000	3.0	0.7	<0.8	<0.8	--	--	--	--	--	--
01/23/06	738.78	0.87	737.91	690	--	2,600	--	<980	3.0	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
04/12/06	738.78	1.54	737.24	850	--	3,900	--	310	3.0	0.8	<0.8	<0.8	<0.5	--	--	--	--	--
07/24/06	738.93	1.35	737.58	620	--	3,000	--	<500	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
10/24/06	738.93	1.90	737.03	810	--	4,500	--	940	5.0	0.8	<0.8	<0.8	<0.5	--	--	--	--	--
01/30/07	738.93	1.20	737.73	750	--	12,000	--	<500	78	11	<0.8	<0.8	--	--	--	--	--	--
02/26/07	738.93	0.38	738.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03/12/07	738.93	1.11	737.82	1,100	--	6,400	--	<980	92	23	1	<0.8	--	--	--	--	--	--
03/26/07	738.93	1.15	737.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/09/07	738.93	1.12	737.81	854	--	4,877	--	<980	12.2	1.53	<0.8	<0.8	--	--	--	--	--	--
04/23/07	738.93	1.37	737.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/26/07	738.93	1.39	737.54	809	--	4,022	--	468	54.6	30.1	0.81	1.09	--	--	--	--	--	--
05/07/07	738.93	1.32	737.61	770	--	3,860	--	<480	46	14	<0.8	<0.8	--	--	--	--	--	--
05/21/07	738.93	1.36	737.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/04/07	738.93	1.47	737.46	900	--	4,900	--	560	40	15	<0.8	<0.8	--	--	--	--	--	--
06/18/07	738.93	1.66	737.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/02/07	738.93	1.17	737.76	720	--	4,600	--	<490	13	4	<0.8	<0.8	--	--	--	--	--	--
07/16/07	738.93	1.54	737.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/26/07	738.93	1.74	737.19	910	--	5,400	--	460	8	8	<0.8	<0.8	--	--	--	--	--	--
07/30/07	738.93	1.84	737.09	610	--	4,400	--	<480	6	4	<0.8	<0.8	--	--	--	--	--	--
10/24/07	738.93	1.35	737.58	690	--	5,600	--	1,000	1	3	<0.8	<0.8	<0.5	--	--	--	--	--
01/23/08	738.93	1.54	737.39	730	--	4,700	--	<470	2	2	<0.8	0.8	--	--	--	--	--	--
04/23/08	738.93	1.56	737.37	530	--	2,100	--	<190	0.8	2	<0.8	<0.8	--	--	--	--	--	--
07/24/08	738.93	1.8	737.13	780	--	3,000	--	160	<0.5	2	<0.5	0.5	<0.5	--	--	--	--	--
10/20/08	738.93	1.70	737.23	800	--	3,100	--	290	2	1	<0.8	<0.8	--	--	--	--	--	--
01/14/09	738.93	1.53	737.40	449	--	240	--	<63	2.6	1.2	<1.0	<3.0	--	--	--	--	--	--
04/27/09	738.93	1.60	737.33	973	--	400	--	<420	2.8	2.1	<1.0	<3.0	<1.0	<1.0	<0.010	--	2.9	1.3
07/28/09	738.93	2.27	736.66	917	--	122	--	<388	<1.0	<1.0	1.2	3.1	--	--	--	--	--	--

SAIC

TABLE 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Site No. 351393
666 Griffin Avenue
Enumclaw, Washington
Concentrations reported in (µg/L)

Well ID/Date	TOC	Depth to Water (ft)	GW Elevation (ft)	TPH-G (µg/L)	TPH-D (10-gram Column Cleanup[1]) (µg/L)	TPH-D[2] (µg/L)	TPH-O (10-gram Column Cleanup[1]) (µg/L)	TPH-O[2] (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	EDC (µg/L)	EDB (µg/L)	Ethanol (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MW-2 (cont)																		
10/20/09	738.93	1.76	737.17	1,040	--	985	--	<385	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
01/18/10	738.93	1.65	737.28	972	--	572 [D3,P2]	--	<385	3.7	2.7	1.4	4.4	--	--	--	--	--	--
04/20/10	738.93	1.60	737.33	764	--	648	--	<388	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
07/19/10	738.93	1.75	737.18	755	--	511	--	<392	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
10/18/10	738.93	1.90	737.03	988	--	744	--	<388	2.8	1.0	<1.0	<3.0	--	--	--	--	--	--
01/25/11	738.93	1.42	737.51	987	--	631	--	<392	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
04/11/11	738.93	1.53	737.40	1,430	--	990	--	<392	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
07/05/11	738.93	1.70	737.23	989	--	691	--	<392	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
11/30/11	738.93	1.70	737.23	890	280	5,900	<70	<330	0.8	0.5	<0.5	<0.5	--	--	--	<50	--	--
03/02/12	738.93	1.47	737.46	620	490	3,900	<67	280	<0.5	<0.5	<0.5	<0.5	--	--	--	<50	--	--
05/09/12	738.93	1.55	737.38	520	430	2,900	<69	270	<0.5	<0.5	<0.5	<0.5	--	--	--	<50	--	--
11/29/12	738.93	1.95	736.98	540	300	6,000	<70	330	<0.5	<0.5	<0.5	<0.5	--	--	--	<50	--	--
MW-3																		
02/16/99	740.07	2.10	737.97	484	--	<400	--	<800	16.8	1.21	2.41	<1.0	13.3	--	--	--	--	--
08/30/00	740.07	3.83	736.24	2,530	--	<250	--	<500	96.4	<4.63	<8.37	2.87	43.6	--	--	--	--	--
11/16/00	740.07	2.60	737.47	1,250	--	<250	--	<500	68.4	<2.50	<5.40	<8.20	39.8	--	--	--	--	--
02/22/01	740.07	2.35	737.72	1,060	--	271	--	<500	44.9	<3.08	<8.12	2.31	56.4	--	--	--	--	--
05/31/01	740.07	2.62	737.45	2,340	--	<250	--	<500	40.2	1.69	4.26	1.36	44.6	--	--	--	--	--
08/22/01	740.07	3.79	736.28	1,600	--	1,590	--	<500	12.3	5.43	4.80	<1	49	--	--	--	--	--
11/08/01	740.07	2.15	737.92	1,290	--	<250	--	<500	41.5	2.18	4.90	4.70	28.1	--	--	--	--	--
02/05/02	740.07	2.05	738.02	1,470	--	<250	--	<500	37.2	3.17	5.84	<1	30.5	--	--	--	--	--
05/23/02	740.07	2.36	737.71	3,170	--	<250	--	<500	36.2	<10	<10	<30	30.8	--	--	--	--	--
08/13/02	740.07	3.69	736.38	1,100	--	<250	--	<500	44	7.7	8.0	<1.5	31	--	--	--	--	--
11/06/02	740.07	3.95	736.12	1,200	--	<250	--	<500	75	11.0	9.3	4.8	30	--	--	--	--	--
02/05/03	740.07	1.68	738.39	2,170	--	<250	--	<500	218	75.6	7.08	39.3	39.9	--	--	--	--	--
05/21/03	740.07	2.02	738.05	1,670	--	960	--	<500	336	52.9	3.64	12.2	43.7	--	--	--	--	--
08/20/03	740.07	4.86	735.21	1,740	--	<250	--	<500	147	10.3	<1	4.72	35.3	--	--	--	--	--
11/24/03	740.07	2.05	738.02	1,710	--	4,050	--	2,190	941	71.5	27.20	42.34	9.19	--	--	--	--	--
02/19/04	740.07	1.77	738.30	1,410	--	606	--	<245	1,080	51.9	12.00	18.62	37	--	--	--	--	--
05/19/04	740.07	2.46	737.61	2,490	--	1,010	--	<238	445	33.2	10.30	10.30	47.6	--	--	--	--	--
08/12/04	740.07	3.47	736.60	3,690	--	770	--	<495	697	30.0	<10	<20	34.3	--	--	--	--	--
11/11/04	740.07	2.36	737.71	2,150	--	724	--	<496	306	11.6	<10	<20	<10	--	--	--	--	--
02/21/05	740.07	2.79	737.28	2,270	--	782	--	<496	225	<10	<10	<20	12.9	--	--	--	--	--
05/16/05	740.07	1.48	738.59	2,350	--	1,120	--	<495	198	10.60	13.40	<2	18.9	--	--	--	--	--
07/18/05	740.07	2.38	737.69	1,630	--	496	--	<501	189	4.63	2.53	6.15	15.6	--	--	--	--	--
09/06/05	740.07	3.08	736.99	590	--	690	--	380	89	1.0	0.8	3.0	--	--	--	--	--	--
10/19/05	740.07	2.41	737.66	1,200	--	1,500	--	370	140	5.0	2.0	5.0	7.0	--	--	--	--	--
11/15/05	740.07	1.90	738.17	940	--	1400	--	530	170	3.6	1.3	<5	--	--	--	--	--	--
12/12/05	740.07	--	--	740	--	950	--	310	250	4.0	2.0	5.0	--	--	--	--	--	--
01/10/06	740.07	--	--	720	--	1,200	--	320	260	3.0	1.0	3.0	--	--	--	--	--	--
01/23/06	740.07	2.04	738.03	1,200	--	760	--	310	99	3.0	3.0	2.0	12	--	--	--	--	--
04/12/06	740.07	2.26	737.81	1,000	--	680	--	150	33	1.0	<0.8	1.0	21	--	--	--	--	--

SAIC

TABLE 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Site No. 351393
666 Griffin Avenue
Enumclaw, Washington
Concentrations reported in (µg/L)

Well ID/Date	TOC	Depth to Water (ft)	GW Elevation (ft)	TPH-G (µg/L)	TPH-D (10-gram Column Cleanup[3]) (µg/L)	TPH-D[2] (µg/L)	TPH-O (10-gram Column Cleanup[3]) (µg/L)	TPH-O[2] (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	EDC (µg/L)	EDB (µg/L)	Ethanol (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MW-3 (cont)																		
07/24/06	740.07	3.41	736.66	870	--	1,100	--	260	35	1.0	<0.8	1.0	15	--	--	--	--	--
10/24/06	740.07	2.77	737.30	920	--	1,700	--	450	15	0.8	<0.8	<0.8	13	--	--	--	--	--
01/30/07	740.07	2.27	737.80	880	--	1,400	--	270	12	<0.7	2.0	<0.8	--	--	--	--	--	--
02/26/07	740.07	1.59	738.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03/12/07	740.07	1.41	738.66	1,100	--	2,300	--	770	26	<0.7	4	<0.8	--	--	--	--	--	--
03/26/07	740.07	1.41	738.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/09/07	740.07	1.65	738.42	1,335	--	1,481	--	354	36.8	<0.7	8.75	<0.8	--	--	--	--	--	--
04/23/07	740.07	2.02	738.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/26/07	740.07	2.01	738.06	1,003	--	1,515	--	442	13.3	<0.7	1.75	<0.8	--	--	--	--	--	--
05/07/07	740.07	2.04	738.03	820	--	1,100	--	680	25	<0.7	4	<0.8	--	--	--	--	--	--
05/21/07	740.07	2.02	738.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/04/07	740.07	2.17	737.90	760	--	2,000	--	930	18	<0.7	1	<0.8	0.6	--	--	--	--	--
06/18/07	740.07	2.15	737.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/02/07	740.07	2.17	737.90	300	--	1,200	--	350	4	<0.7	<0.8	<0.8	--	--	--	--	--	--
07/16/07	740.07	2.64	737.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/26/07	740.07	2.08	737.99	580	--	1,300	--	320	3	<0.7	<0.8	<0.8	7	--	--	--	--	--
07/30/07	740.07	2.30	737.77	120	--	1,600	--	650	<0.5	<0.7	<0.8	<0.8	--	--	--	--	--	--
10/24/07	740.07	2.11	737.96	700	--	1,800	--	680	4	<0.7	<0.8	<0.8	1	--	--	--	--	--
01/23/08	740.07	2.17	737.90	470	--	1,200	--	230	2	<0.7	<0.8	<0.8	2	--	--	--	--	--
04/23/08	740.07	2.22	737.85	450	--	540	--	<95	2	<0.7	<0.8	<0.8	0.9	--	--	--	--	--
07/24/08	740.07	2.81	737.26	680	--	590	--	<98	0.6	<0.5	<0.5	0.6	0.6	--	--	--	--	--
10/20/08	740.07	2.32	737.75	720	--	860	--	220	270	2	<0.8	<0.8	--	--	--	--	--	--
01/14/09	740.07	1.84	738.23	643	--	180	--	<63	420	9.4	<1.0	<3.0	--	--	--	--	--	--
04/27/09	740.07	2.34	737.73	972	--	<84	--	<420	607	31.5	<1.0	3.3	<1.0	<1.0	<0.010	--	<1.0	<1.0
07/28/09	740.07	3.25	736.82	1,120	--	117	--	<400	254	8.1	2.2	4.2	--	--	--	--	--	--
10/20/09	740.07	2.66	737.41	1,230	--	244	--	<388	596	13.0	6.3	39.3	--	--	--	--	--	--
01/18/10	740.07	2.02	738.05	1,200	--	136 [D+,P2]	--	<383	487 [1n]	1.7 1n	19.3 1n	90.0 1n	--	--	--	--	--	--
04/20/10	740.07	2.25	737.82	1,120	--	95.4	--	<388	855.0	1.3	20.0	58.9	--	--	--	--	--	--
07/19/10	740.07	2.78	737.29	1,080	--	94	--	<396	223	<1.0	12.4	15.8	--	--	--	--	--	--
10/18/10	740.07	2.24	737.83	874	--	145	--	<392	403	5.5	3.2	5.3	--	--	--	--	--	--
01/25/11	740.07	1.77	738.30	881	--	131	--	<392	246	3.6	7.0	<3.0	--	--	--	--	--	--
04/11/11	740.07	2.11	737.96	1,340	--	233	--	<392	545	6.9	6.8	5.9	--	--	--	--	--	--
07/05/11	740.07	2.50	737.57	1,130	--	193	--	<388	381	8.3	2.6	5.8	--	--	--	--	--	--
11/30/11	740.07	1.14	738.93	660	77	1,200	<70	150	420	12	1	2	--	--	--	<50	--	--
03/02/12	740.07	2.02	738.05	840	49	1,100	<67	240	550	6	2	4	--	--	--	<50	--	--
05/09/12	740.07	2.21	737.86	740	73	1,200	<70	290	380	7	3	3	--	--	--	<50	--	--
11/29/12	740.07	2.41	737.66	790	60	1,500	<71	240	180	<5	<5	<5	--	--	--	<500	--	--
MW-4																		
02/19/99	740.07	2.10	737.97	484	--	<400	--	<800	16.8	1.21	2.41	<1.0	13.3	--	--	--	--	--
08/30/00	740.07	3.83	736.24	1,460	--	1,880	--	<500	<1.43	<0.910	<0.950	<1	<5	--	--	--	--	--
11/16/00	740.07	2.60	737.47	1,140	--	1,920	--	<500	<7.20	<0.690	<2.82	<1.35	<5	--	--	--	--	--
02/22/01	740.07	2.35	737.72	1,380	--	3,410	--	<500	<2.02	<1.36	<1.92	<2	6.01	--	--	--	--	--

SAIC

TABLE 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Site No. 351393
666 Griffin Avenue
Enumclaw, Washington
Concentrations reported in (µg/L)

Well ID/Date	TOC	Depth to Water (ft)	GW Elevation (ft)	TPH-G (µg/L)	TPH-D (10-gram Column Cleanup[1]) (µg/L)	TPH-D[2] (µg/L)	TPH-O (10-gram Column Cleanup[1]) (µg/L)	TPH-O[2] (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	EDC (µg/L)	EDB (µg/L)	Ethanol (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MW-4 (cont)																		
05/31/01	740.07	2.62	737.45	1,880	--	9,950	--	<500	1.37	<0.5	1.76	<1	<2	--	--	--	--	--
08/22/01	740.07	3.79	736.28	1,710	--	3,790	--	649	6.66	<0.5	<0.500	<1	Detected	--	--	--	--	--
11/08/01	740.07	2.15	737.92	1,060	--	5,330	--	<500	2.01	1.35	0.99	<2	Detected	--	--	--	--	--
02/05/02	740.07	2.05	738.02	1,300	--	1,990	--	<500	2.63	<0.5	1.24	<1	22.9	--	--	--	--	--
05/23/02	740.07	2.36	737.71	2,540	--	438	--	<500	1.77	<1	1.07	<3	<2	--	--	--	--	--
08/13/02	740.07	3.69	736.38	1,000	--	450	--	<500	12.00	4.1	1.30	<1.5	<5	--	--	--	--	--
11/06/02	740.07	3.95	736.12	830	--	740	--	<500	8.00	3.6	1.70	<1.5	<5	--	--	--	--	--
02/05/03	740.07	1.68	738.39	1,300	--	2,160	--	<500	0.59	0.89	1.01	<1	<2	--	--	--	--	--
05/21/03	740.07	2.02	738.05	569	--	1,350	--	<500	0.94	<0.5	<0.5	<1	<2	--	--	--	--	--
08/20/03	740.07	4.86	735.21	919	--	649	--	<500	0.55	<0.5	<0.5	<1	<2	--	--	--	--	--
11/24/03	740.07	2.05	738.02	1,680	--	4,310	--	1,310	7.31	1.19	1.5	2.83	<0.5	--	--	--	--	--
02/19/04	740.07	1.77	738.30	3,100	--	10,400	--	345	9.95	<5.0	<5.0	<10	<5	--	--	--	--	--
05/19/04	740.07	2.46	737.61	2,060	--	5,510	--	249	6.61	6.46	4.19	<2	16	--	--	--	--	--
08/12/04	740.07	3.47	736.60	1,680	--	7,160	--	<501	2.35	<1.0	<1.0	<2.0	<1.0	--	--	--	--	--
11/11/04	740.07	2.36	737.71	1,400	--	8,920	--	<498	1.82	<1.0	1.11	<2.0	3.08	--	--	--	--	--
02/21/05	740.07	2.79	737.28	1,580	--	3,620	--	<495	<10	<10	<10	<20	<10	--	--	--	--	--
05/16/05	740.07	1.48	738.59	1,360	--	6,220	--	<496	3.80	2.91	1.51	<2	23.90	--	--	--	--	--
07/18/05	740.07	2.38	737.69	1,110	--	1,040	--	<477	2.34	<1.0	<1.0	<2.0	<1.0	--	--	--	--	--
09/06/05	740.07	3.08	736.99	1,800	--	3,400	--	350	6.0	<0.7	5.0	1.0	--	--	--	--	--	--
10/19/05	740.07	2.41	737.66	890	--	6,200	--	<980	2.0	<0.5	0.70	<0.5	<0.5	--	--	--	--	--
11/15/05	740.07	1.90	738.17	1,300	--	2,800	--	560	2.5	2.6	2.0	<3	--	--	--	--	--	--
12/12/05	740.07	--	--	1,200	--	3,400	--	400	4.0	1.0	4.0	2.0	--	--	--	--	--	--
01/10/06	740.07	--	--	1,300	--	2,500	--	770	3.0	<0.7	2.0	<0.8	--	--	--	--	--	--
01/23/06	740.07	2.04	738.03	920	--	5,700	--	<980	1.0	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
04/12/06	740.07	2.26	737.81	1,200	--	2,400	--	220	1.0	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
07/24/06	740.07	3.41	736.66	840	--	2,800	--	<500	0.9	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
10/24/06	740.07	2.77	737.30	930	--	3,100	--	680	0.8	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
01/30/07	740.07	2.27	737.80	680	--	2,900	--	<500	0.7	<0.7	<0.8	<0.8	--	--	--	--	--	--
02/26/07	740.07	1.59	738.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03/12/07	740.07	1.41	738.66	1,300	--	2,200	--	<500	1	<0.7	<0.8	<0.8	--	--	--	--	--	--
03/26/07	740.07	1.41	738.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/09/07	740.07	1.65	738.42	1,090	--	1,964	--	<500	1.15	<0.7	0.870	<0.8	--	--	--	--	--	--
04/23/07	740.07	2.02	738.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/26/07	740.07	2.01	738.06	598	--	7,450	--	<1,000	0.66	1.40	<0.8	3.37	--	--	--	--	--	--
05/07/07	740.07	2.04	738.03	1,200	--	2,500	--	<480	1	<0.7	2	<0.8	--	--	--	--	--	--
05/21/07	740.07	2.02	738.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/04/07	740.07	2.17	737.90	1,400	--	18,000	--	<980	2	0.7	1	3	--	--	--	--	--	--
06/18/07	740.07	2.15	737.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/02/07	740.07	2.17	737.90	1,100	--	15,000	--	<500	1	<0.7	1	<0.8	--	--	--	--	--	--
07/16/07	740.07	2.64	737.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/26/07	740.07	2.08	737.99	690	--	5,500	--	<480	<0.5	<0.7	<0.8	<0.8	--	--	--	--	--	--
07/30/07	740.07	2.30	737.77	1,200	--	8,400	--	<480	4	1	2	2	--	--	--	--	--	--

SAIC

TABLE 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Site No. 351393
666 Griffin Avenue
Enumclaw, Washington
Concentrations reported in (µg/L)

Well ID/Date	TOC	Depth to Water (ft)	GW Elevation (ft)	TPH-G (µg/L)	TPH-D (10-gram Column Cleanup[1]) (µg/L)	TPH-D[2] (µg/L)	TPH-O (10-gram Column Cleanup[1]) (µg/L)	TPH-O[2] (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	EDC (µg/L)	EDB (µg/L)	Ethanol (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MW-4 (cont)																		
10/24/07	740.07	2.1	737.97	1,100	--	3,100	--	<950	1	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
01/23/08	740.07	2.19	737.88	950	--	2,300	--	270	0.9	<0.7	<0.8	<0.8	--	--	--	--	--	--
04/23/08	740.07	2.31	737.76	750	--	3,000	--	<190	1	<0.7	<0.8	<0.8	--	--	--	--	--	--
07/24/08	740.07	3.23	736.84	1,100	--	1,500	--	110	1	0.60	1.00	0.90	<0.5	--	--	--	--	--
10/20/08	740.07	2.30	737.77	1,500	--	2,100	--	360	4	<0.7	1	1	--	--	--	--	--	--
01/14/09	740.07	2.05	738.02	1,280	--	510	--	<63	2.0	<1.0	1.9	<3.0	--	--	--	--	--	--
01/14/09	740.07	--	--	--	--	1,900	--	930	--	--	--	--	--	--	--	--	--	--
01/14/09	740.07	--	--	--	--	690	--	190 J	--	--	--	--	--	--	--	--	--	--
04/27/09	740.07	2.42	737.65	1,590	--	350	--	<430	3.0	1.4	2.7	<3.0	<1.0	<1.0	<0.010	--	<1.0	<1.0
07/28/09	740.07	3.9	736.17	1,310	--	<77.7	--	<388	2.8	<1.0	2.1	3.3	--	--	--	--	--	--
10/20/09	740.07	2.41	737.66	1,510	--	745	--	<388	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
01/18/10	740.07	2.14	737.93	1,310	--	626 [D6, P2]	--	<385	2.7	2.1	1.7	<3.0	--	--	--	--	--	--
04/20/10	740.07	2.16	737.91	1,200	--	542	--	<385	1.2	<1.0	<1.0	<3.0	--	--	--	--	--	--
07/19/10	740.07	2.97	737.10	874	--	440	--	<388	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
10/18/10	740.07	2.27	737.80	1,450	--	547	--	<392	1.2	<1.0	<1.0	<3.0	--	--	--	--	--	--
01/25/11	740.07	1.51	738.56	1,460	--	401	--	<392	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
04/11/11	740.07	1.69	738.38	2,390	--	452	--	<392	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
07/05/11	740.07	2.64	737.43	1,730	--	579	--	<392	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
11/30/11	740.07	2.16	737.91	1,400	380	1,700	<71	130	0.9	0.7	<0.5	1	--	--	--	<50	--	--
03/02/12	740.07	2.31	737.76	1,000	370	1,500	<67	200	0.7	<0.5	<0.5	<0.5	--	--	--	<50	--	--
05/09/12	740.07	2.11	737.96	770	650	1,700	<70	250	<0.5	<0.5	<0.5	<0.5	--	--	--	<50	--	--
11/29/12	740.07	2.20	737.87	1,100	270	1,900	<70	290	0.5	<0.5	<0.5	<0.5	--	--	--	<50	--	--
MW-5																		
02/16/99	740.29	1.65	738.64	<80	--	<400	--	<800	<0.5	<0.5	<0.5	<1.0	<2.0	--	--	--	--	--
08/30/00	740.29	2.84	737.45	<50	--	<250	--	<500	<0.5	<0.5	<0.5	<1	<5	--	--	--	--	--
11/16/00	740.29	2.25	738.04	55	--	<250	--	<500	<0.5	<0.5	0.64	2.30	<5	--	--	--	--	--
02/22/01	740.29	1.92	738.37	<50	--	<250	--	<500	<0.5	<0.5	<0.5	1.02	<1	--	--	--	--	--
05/31/01	740.29	2.22	738.07	101	--	<250	--	<500	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--
08/22/01	740.29	2.53	737.76	<80	--	827	--	622	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--
11/08/01	740.29	1.73	738.56	103	--	<250	--	<500	<0.5	<0.5	<0.5	<2	--	--	--	--	--	--
02/05/02	740.29	1.51	738.78	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<1	<2	--	--	--	--	--
05/23/02	740.29	1.60	738.69	<100	--	<323	--	<645	<1	<1	<1	<3	<2	--	--	--	--	--
08/13/02	740.29	3.15	737.14	<100	--	<250	--	<500	<0.5	<0.5	<0.5	<1.5	<5	--	--	--	--	--
11/06/02	740.29	3.63	736.66	<100	--	<250	--	<500	<0.5	<0.5	<0.5	<1.5	<5	--	--	--	--	--
02/05/03	740.29	1.30	738.99	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<1	<2	--	--	--	--	--
05/21/03	740.29	1.36	738.93	<80	--	1,390	--	739	<0.5	<0.5	<0.5	<1	<2	--	--	--	--	--
08/20/03	740.29	4.18	736.11	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<1	<2	--	--	--	--	--
11/24/03	740.29	1.62	738.67	308	--	1,830	--	2,360	0.49	<0.5	<0.5	0.87	<0.5	--	--	--	--	--
02/19/04	740.29	1.49	738.80	105	--	<124	--	<248	<1	<1	<1	1.08	<1	--	--	--	--	--
05/19/04	740.29	2.00	738.29	120	--	215	--	<238	<1	<1	<1	<2	<1	--	--	--	--	--
08/12/04	740.29	3.06	737.23	<100	--	<251	--	<502	<1	<1	<1	<2	<1	--	--	--	--	--
11/11/04	740.29	1.74	738.55	<100	--	322	--	<499	<1	<1	<1	<2	<1	--	--	--	--	--

SAIC

TABLE 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Site No. 351393
666 Griffin Avenue
Enumclaw, Washington
Concentrations reported in (µg/L)

Well ID/Date	TOC	Depth to Water (ft)	GW Elevation (ft)	TPH-G (µg/L)	TPH-D (10-gram Column Cleanup[1]) (µg/L)	TPH-D[2] (µg/L)	TPH-O (10-gram Column Cleanup[1]) (µg/L)	TPH-O[2] (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	EDC (µg/L)	EDB (µg/L)	Ethanol (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MW-5 (cont)																		
02/21/05	740.29	2.36	737.93	<100	--	<247	--	<494	<1	<1	<1	<2	<1	--	--	--	--	--
05/16/05	740.29	1.23	739.06	1,250	--	725	--	<508	3.42	2.86	<1	<2	18.8	--	--	--	--	--
07/18/05	740.29	1.94	738.35	179	--	771	--	<476	<1	<1	<1	<2	<1	--	--	--	--	--
10/19/05	740.29	1.58	738.71	<48	--	1,300	--	550	<0.5	<0.5	0.50	1.0	<0.5	--	--	--	--	--
01/23/06	740.29	1.21	739.08	<48	--	3,300	--	1,400	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
04/12/06	740.29	1.39	738.90	<48	--	3,000	--	1,100	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
07/24/06	740.28	2.98	737.30	<48	--	3,300	--	2,000	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
10/24/06	740.28	2.43	737.85	130	--	1,500	--	1,100	<0.5	<0.7	<0.8	1.0	<0.5	--	--	--	--	--
01/30/07	740.28	1.86	738.42	<48	--	3,300	--	860	<0.5	<0.7	<0.8	<0.8	--	--	--	--	--	--
02/26/07	740.28	1.23	739.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03/12/07	740.28	0.99	739.29	100	--	2,500	--	1,500	<0.5	<0.7	<0.8	1	--	--	--	--	--	--
03/26/07	740.28	1.09	739.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/09/07	740.28	1.24	739.04	<50	--	2,778	--	1,058	<0.5	<0.7	<0.8	<0.8	--	--	--	--	--	--
04/23/07	740.28	1.56	738.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/26/07	740.28	1.57	738.71	52.8	--	2,741	--	766	<0.5	<0.7	<0.8	<0.8	--	--	--	--	--	--
05/07/07	740.28	1.56	738.72	74	--	1,900	--	1,600	<0.5	<0.7	<0.8	1	--	--	--	--	--	--
05/21/07	740.28	1.41	738.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/04/07	740.28	1.85	738.43	120	--	3,600	--	2,500	<0.5	<0.7	<0.8	<0.8	--	--	--	--	--	--
06/18/07	740.28	1.78	738.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/02/07	740.28	1.49	738.79	130	--	1,900	--	970	<0.5	<0.7	1	3	--	--	--	--	--	--
07/16/07	740.28	2.26	738.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/26/07	740.28	1.62	738.66	77	--	2,900	--	2,000	<0.5	<0.7	<0.8	<0.8	--	--	--	--	--	--
07/30/07	740.28	1.91	738.37	100	--	2,500	--	1,900	<0.5	<0.7	0.8	0.8	--	--	--	--	--	--
10/24/07	740.28	1.58	738.70	78	--	3,100	--	2,100	<0.5	<0.7	1	3	<5	--	--	--	--	--
01/23/08	740.28	1.81	738.47	67	--	3,500	--	970	<0.5	<0.7	<0.8	<0.8	--	--	--	--	--	--
04/23/08	740.28	1.91	738.37	81	--	2,900	--	2,200	<0.5	<0.7	<0.8	2	--	--	--	--	--	--
07/24/08	740.28	2.91	737.37	<50	--	1,800	--	1,100	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
10/20/08	740.28	2.16	738.12	280	--	1,900	--	650	60	31	2	7	--	--	--	--	--	--
01/14/09	740.28	1.50	738.78	202	--	54 [1]	--	<63	64	15	9.9	30	--	--	--	--	--	--
01/14/09 Re-extraction - No Cleanup				--	--	2,800	--	1,900	--	--	--	--	--	--	--	--	--	--
01/14/09 Re-extraction - Silica Gel Cleanup				--	--	130	--	<61	--	--	--	--	--	--	--	--	--	--
04/27/09	740.28	1.99	738.29	381	--	98	--	<420	46.7	29.4	9.2	39.7	<1.0	<1.0	<0.010	--	<1.0	<1.0
07/28/09	740.28	Inaccessible																
10/20/09	740.28	2.03	738.25	1,610	--	462	--	<396	47.9	67.8	47.5	345	--	--	--	--	--	--
01/18/10	740.28	1.60	738.68	288	--	101 [J+, P2]	--	<385	24.4 Jn	21.3	14.6 Jn	38.2	--	--	--	--	--	--
04/20/10	740.28	1.70	738.58	1,830	--	83.9	--	<388	209	372	75.9	368	--	--	--	--	--	--
07/19/10	740.28	2.58	737.7	579	--	115	--	<392	83.5	21.6	40	115.0	--	--	--	--	--	--
10/18/10	740.28	1.90	738.38	3,840	--	412	--	<396	371	179	160	753	--	--	--	--	--	--
01/25/11	740.28	1.41	738.87	533	--	155	--	<392	24.1	4.7	24.6	74.0	--	--	--	--	--	--
04/11/11	740.28	1.24	739.04	269	--	258	--	<392	5.4	<1.0	9.2	30.4	--	--	--	--	--	--
07/05/11	740.28	1.98	738.3	582	--	170	--	<400	61.5	1.2	30.9	53.3	--	--	--	--	--	--
11/30/11	740.28	1.48	738.8	660	76	3,400	<69	1,200	39	2	44	82	--	--	--	<50	--	--

SAIC

TABLE 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Site No. 351393
666 Griffin Avenue
Enumclaw, Washington
Concentrations reported in (µg/L)

Well ID/Date	TOC	Depth to Water (ft)	GW Elevation (ft)	TPH-G (µg/L)	TPH-D (10-gram Column Cleanup[1]) (µg/L)	TPH-D[2] (µg/L)	TPH-O (10-gram Column Cleanup[1]) (µg/L)	TPH-O[2] (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	EDC (µg/L)	EDB (µg/L)	Ethanol (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MW-5 (cont)																		
03/02/12	740.28	1.71	738.57	500	48	3,300	<67	700	23	2	31	90	--	--	--	<50	--	--
05/09/12	740.28	1.71	738.57	510	43	2,900	<69	530	14	1	28	77	--	--	--	<50	--	--
11/29/12	740.28	1.75	738.53	370	63	3,200	<71	490	4	1	17	31	--	--	--	<50	--	--
MW-6																		
04/27/00	739.35	--	--	3,000	--	<250	--	<500	64.5	162	62.3	533	21.1	--	--	--	--	--
08/30/00	739.35	2.85	736.50	642	--	<250	--	<500	44.7	1.47	8.99	3.84	19.1	--	--	--	--	--
11/16/00	739.35	2.68	736.67	488	--	<250	--	<500	33.3	<0.917	7.14	<2.95	13.4	--	--	--	--	--
02/22/01	739.35	2.50	736.85	473	--	<250	--	<500	47.7	<1.64	3.21	<1	9.55	--	--	--	--	--
05/31/01	739.35	2.68	736.67	613	--	<250	--	<500	42.3	<0.5	<0.5	<1	2.36	--	--	--	--	--
08/22/01	739.35	3.89	735.46	214	--	412	--	<500	<0.5	<0.5	<0.5	<1	4.29	--	--	--	--	--
11/08/01	739.35	2.59	736.76	423	--	<250	--	<500	3.84	<0.5	<0.5	<2	<2	--	--	--	--	--
02/05/02	739.35	2.18	737.17	359	--	<250	--	<500	14.4	4.14	<0.5	<1	<2	--	--	--	--	--
05/23/02	739.35	2.24	737.11	1,530	--	292	--	<500	240	1.15	<1.00	<3	<2	--	--	--	--	--
08/13/02	739.35	2.94	736.41	550	--	<250	--	<500	29	1.30	3.40	<2	<5	--	--	--	--	--
11/06/02	739.35	3.82	735.53	440	--	<250	--	<500	12	0.78	2.90	1.80	<5	--	--	--	--	--
02/05/03	739.35	2.20	737.15	77,300	--	<250	--	<500	6,170	19,300	1,430	7,090	<400	--	--	--	--	--
03/28/03	739.35	2.02	737.33	37,100	--	--	--	--	2,380	7,910	1,280	6,420	--	--	--	--	--	--
05/21/03	739.35	2.16	737.19	14,000	--	<250	--	<500	1,290	1,830	568	2,310	<40	--	--	--	--	--
08/20/03	739.35	4.26	735.09	3,250	--	<250	--	<500	776	11.20	206	102	<40	--	--	--	--	--
11/24/03	739.35	2.24	737.11	1,830	--	2,200	--	1,050	249	2.83	23.8	107.36	1.85	--	--	--	--	--
02/19/04	739.35	2.08	737.27	1,870	--	645	--	253	180	<5	14.1	60.0	<5	--	--	--	--	--
05/19/04	739.35	2.41	736.94	1,550	--	865	--	520	89.3	1.94	3.93	16.7	3.16	--	--	--	--	--
08/12/04	739.35	Well not accessible												--	--	--	--	--
11/11/04	739.35	1.46	737.89	111	--	<246	--	<491	<1	<1	<1	<2	1.63	--	--	--	--	--
02/21/05	739.35	1.95	737.40	1,030	--	371	--	<493	6.98	<1	<1	<2	<1	--	--	--	--	--
05/16/05	739.35	2.17	737.18	384	--	324	--	<494	1.73	<1	1.14	1.59	<1	--	--	--	--	--
07/18/05	739.35	2.06	737.29	348	--	<249	--	<498	12.30	<1	<1	<2	<1	--	--	--	--	--
10/20/05	739.35	2.22	737.13	320	--	500	--	150	5.0	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
01/23/06	739.35	1.92	737.43	170	--	210	--	260	110	1.0	<0.8	<0.8	1.0	--	--	--	--	--
04/12/06	739.35	2.38	736.97	450	--	<400	--	<500	180	4.0	10	3.0	3.0	--	--	--	--	--
07/24/06	739.49	2.74	736.75	470	--	400	--	<99	42	1.0	<0.8	0.8	1.0	--	--	--	--	--
10/24/06	739.49	2.98	736.51	300	--	320	--	<95	1.0	<0.7	<0.8	<0.8	0.8	--	--	--	--	--
01/30/07	739.49	2.23	737.26	180	--	390	--	200	0.9	<0.7	<0.8	<0.8	--	--	--	--	--	--
04/26/07	739.49	2.20	737.29	329	--	132	--	<100	5.71	<0.7	<0.8	<0.8	--	--	--	--	--	--
05/21/07	739.49	2.36	737.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/26/07	739.49	2.16	737.33	360	--	370	--	98	<0.5	<0.7	<0.8	<0.8	--	--	--	--	--	--
10/24/07	739.49	1.95	737.54	330	--	390	--	230	1	11	<0.8	<0.8	<0.5	--	--	--	--	--
01/23/08	739.49	2.14	737.35	290	--	240	--	<94	0.8	<0.7	<0.8	<0.8	--	--	--	--	--	--
04/23/08	739.49	2.24	737.25	380	--	130	--	<95	0.8	<0.7	<0.8	<0.8	--	--	--	--	--	--
07/24/08	739.49	2.45	737.04	570	--	310	--	<97	<0.5	3	<0.5	<0.5	<0.5	--	--	--	--	--
10/20/08	739.49	2.33	737.16	480	--	130	--	<99	<0.5	1	<0.8	<0.8	--	--	--	--	--	--
01/14/09	739.49	2.05	737.44	327	--	<38	--	<63	11	9.1	<1.0	<3.0	--	--	--	--	--	--

SAIC

TABLE 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Site No. 351393
666 Griffin Avenue
Enumclaw, Washington
Concentrations reported in (µg/L)

Well ID/Date	TOC	Depth to Water (ft)	GW Elevation (ft)	TPH-G (µg/L)	TPH-D (10-gram Column Cleanup[1]) (µg/L)	TPH-D[2] (µg/L)	TPH-O (10-gram Column Cleanup[1]) (µg/L)	TPH-O[2] (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	EDC (µg/L)	EDB (µg/L)	Ethanol (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MW-6 (cont)																		
04/27/09	739.49	2.05	737.44	568	--	<85	--	<430	<1.0	1.5	<1.0	<3.0	<1.0	<1.0	<0.010	--	<1.0	<1.0
07/28/09	739.49	2.92	736.57	450	--	<76.9	--	<385	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
10/20/09	739.49	2.45	737.04	400	--	204	--	<385	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
01/18/10	739.49	2.24	737.25	335	--	77.5 [ln, 12]	--	<386	34.2 [ln]	<1.0 [ln]	<1.0 [ln]	<3.0 [ln]	--	--	--	--	--	--
04/20/10	739.49	2.06	737.43	148	--	<76.9	--	<385	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
07/19/10	739.49	2.65	736.84	392	--	<79.2	--	<396	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
10/18/10	739.49	2.43	737.06	259	--	99.1	--	<388	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
01/25/11	739.49	2.23	737.26	219	--	<78.4	--	<392	4.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
04/11/11	739.49	2.32	737.17	455	--	95.7	--	<392	1.3	<1.0	<1.0	<3.0	--	--	--	--	--	--
07/05/11	739.49	2.45	737.04	344	--	85.0	--	<392	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
11/30/11	739.49	2.36	737.13	570	67	740	<69	<71	<0.5	<0.5	<0.5	<0.5	--	--	--	<50	--	--
03/02/12	739.49	2.41	737.08	430	68	480	<67	<67	<0.5	<0.5	<0.5	<0.5	--	--	--	<50	--	--
05/09/12	739.49	2.45	737.04	250	<30	270	<70	<70	<0.5	<0.5	<0.5	<0.5	--	--	--	<50	--	--
11/29/12	739.49	2.53	736.96	500	79	1100	<69	<69	<0.5	<0.5	<0.5	<0.5	--	--	--	<50	--	--
MW-7																		
04/27/00	739.02	--	--	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<1.0	<2.0	--	--	--	--	--
08/30/00	739.02	4.07	734.95	<50	--	<250	--	<500	<0.5	<0.5	<0.5	<1	<5	--	--	--	--	--
11/16/00	739.02	2.92	736.10	<50	--	<250	--	<500	<0.5	<0.5	<0.5	<1	<5	--	--	--	--	--
02/22/01	739.02	4.84	734.18	<50	--	<250	--	<500	<0.5	<0.5	<0.5	<1	<1	--	--	--	--	--
05/31/01	739.02	3.11	735.91	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--
08/22/01	739.02	3.38	735.64	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--
11/08/01	739.02	2.40	736.62	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<2	--	--	--	--	--	--
02/05/02	739.02	2.15	736.87	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<1	<2	--	--	--	--	--
05/23/02	739.02	2.74	736.28	<100	--	<250	--	<500	<1	<1	<1	<3	<2	--	--	--	--	--
08/13/02	739.02	4.31	734.71	<100	--	<250	--	<500	<0.5	<0.5	<0.5	<1.5	<5	--	--	--	--	--
11/06/02	739.02	4.38	734.64	<100	--	<250	--	<500	<0.5	<0.5	<0.5	<1.5	<5	--	--	--	--	--
02/05/03	739.02	1.72	737.30	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<1	<2	--	--	--	--	--
05/21/03	739.02	2.31	736.71	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<1	<2	--	--	--	--	--
08/20/03	739.02	5.66	733.36	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<1	<2	--	--	--	--	--
11/24/03	739.02	1.67	737.35	129	--	<120	--	<480	0.89	<0.5	<0.5	<1	<0.5	--	--	--	--	--
02/19/04	739.02	1.64	737.38	<100	--	<123	--	<246	<1	<1	<1	<2	<1	--	--	--	--	--
05/19/04	739.02	2.77	736.25	<100	--	<120	--	<239	<1	<1	<1	<2	<1	--	--	--	--	--
08/12/04	739.02	3.50	735.52	<100	--	<245	--	<490	<1	<1	<1	<2	<1	--	--	--	--	--
11/11/04	739.02	2.58	736.44	<100	--	<247	--	<494	<1	<1	<1	<2	<1	--	--	--	--	--
02/21/05	739.02	3.19	735.83	<100	--	<265	--	<531	<1	<1	<1	<2	<1	--	--	--	--	--
05/16/05	739.02	1.68	737.34	<100	--	<247	--	<493	<1	<1	<1	<2	<1	--	--	--	--	--
07/18/05	739.02	2.77	736.25	<100	--	<261	--	<521	<1	<1	<1	<2	<1	--	--	--	--	--
10/19/05	739.02	2.22	736.80	<48	--	79	--	<98	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
01/23/06	739.02	2.14	736.88	<48	--	<78	--	170	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
04/12/06	739.02	2.30	736.72	<48	--	<78	--	<97	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
07/24/06	739.27	3.95	735.32	<48	--	<78	--	<98	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
10/24/06	739.27	3.14	736.13	<48	--	<79	--	140	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--

SAIC

TABLE 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Site No. 351393
666 Griffin Avenue
Enumclaw, Washington
Concentrations reported in (µg/L)

Well ID/Date	TOC	Depth to Water (ft)	GW Elevation (ft)	TPH-G (µg/L)	TPH-D (10-gram Column Cleanup[1]) (µg/L)	TPH-D[2] (µg/L)	TPH-O (10-gram Column Cleanup[1]) (µg/L)	TPH-O[2] (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	EDC (µg/L)	EDB (µg/L)	Ethanol (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MW-7 (cont)																		
01/30/07	739.27	2.59	736.68	Gauge only														
04/26/07	739.27	2.22	737.05	Gauge only														
07/26/07	739.27	2.24	737.03	Gauge only														
10/24/07	739.27	2.01	737.26	Gauge only														
01/23/08	739.27	2.30	736.97	Gauge only														
04/23/08	739.27	2.15	737.12	Gauge only														
07/24/08	739.27	--	--	Well was not gauged														
10/20/08	739.27	2.20	737.07	Gauge only														
01/14/09	739.27	1.60	737.67	Gauge only														
04/27/09	739.27	2.76	736.51	<50.0	--	<84	--	<420	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<0.010	--	<1.0	<1.0
07/28/09	739.27	4.00	735.27	<50.0	--	<77.7	--	<388	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
10/20/09	739.27	2.19	737.08	<50.0	--	<77.7	--	<388	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
01/18/10	739.27	1.68	737.59	<50.0	--	<76.9	--	<385	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
04/20/10	739.27	2.54	736.73	<50.0	--	<77.7	--	<388	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
07/19/10	739.27	3.65	735.62	<50.0	--	<78.4	--	<392	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
10/18/10	739.27	2.50	736.77	<50.0	--	<78.4	--	<392	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
01/25/11	739.27	1.54	737.73	<50.0	--	<77.7	--	<388	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
04/11/11	739.27	1.58	737.69	<50.0	--	<78.4	--	<392	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
07/05/11	739.27	3.32	735.95	<50.0	--	<77.7	--	<388	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
11/30/11	739.27	1.79	737.48	<50	<28	<30	<66	<70	<0.5	<0.5	<0.5	<0.5	--	--	--	<50	--	--
03/02/12	739.27	1.77	737.5	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	--	--	--	<50	--	--
05/09/12	739.27	2.21	737.06	<50	<30	<30	<70	<70	<0.5	<0.5	<0.5	<0.5	--	--	--	<50	--	--
11/29/12	739.27	1.81	737.46	<50	<30	<69	<70	<70	<0.5	<0.5	<0.5	<0.5	--	--	--	<50	--	--
MW-8																		
04/27/00	738.79	--	--	<80	--	<250	--	<500	<0.5	2.57	1.31	8.96	<2.0	--	--	--	--	--
08/30/00	738.79	7.81	730.98	<50	--	<250	--	<500	<0.5	<0.5	<0.5	<1	<5	--	--	--	--	--
11/16/00	738.79	4.96	733.83	<50	--	<250	--	<500	<0.5	<0.5	<0.5	<1	<5	--	--	--	--	--
02/22/01	738.79	5.97	732.82	<50	--	<250	--	<500	<0.5	<0.5	<0.5	<1	<1	--	--	--	--	--
05/31/01	738.79	6.68	732.11	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--
08/22/01	738.79	8.68	730.11	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--
11/08/01	738.79	6.54	732.25	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<2	--	--	--	--	--	--
02/05/02	738.79	5.59	733.20	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<1	<2	--	--	--	--	--
05/23/02	738.79	5.86	732.93	<100	--	<333	--	<667	<1	<1	<1	<3	<2	--	--	--	--	--
08/13/02	738.79	7.78	731.01	<100	--	<250	--	<500	<0.5	<0.5	<0.5	<1.5	<5	--	--	--	--	--
11/06/02	738.79	8.15	730.64	<100	--	<250	--	<500	<0.5	<0.5	<0.5	<1.5	<5	--	--	--	--	--
02/05/03	738.79	4.72	734.07	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<1	<2	--	--	--	--	--
05/21/03	738.79	5.25	733.54	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<1	<2	--	--	--	--	--
08/20/03	738.79	8.36	730.43	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<1	<2	--	--	--	--	--
11/24/03	738.79	4.49	734.30	53.50	--	<126	--	<252	<0.25	<0.5	<0.5	<1	<0.5	--	--	--	--	--
02/19/04	738.79	5.07	733.72	<100	--	<127	--	<254	<1	<1	<1	<2	<1	--	--	--	--	--
05/19/04	738.79	6.02	732.77	<100	--	<118	--	<237	<1	<1	<1	<2	<1	--	--	--	--	--
08/12/04	738.79	7.54	731.25	<100	--	<248	--	<496	<1	<1	<1	<2	<1	--	--	--	--	--

SAIC

TABLE 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Site No. 351393
666 Griffin Avenue
Enumclaw, Washington
Concentrations reported in (µg/L)

Well ID/Date	TOC	Depth to Water (ft)	GW Elevation (ft)	TPH-G (µg/L)	TPH-D (10-gram Column Cleanup[1]) (µg/L)	TPH-D[2] (µg/L)	TPH-O (10-gram Column Cleanup[1]) (µg/L)	TPH-O[2] (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	EDC (µg/L)	EDB (µg/L)	Ethanol (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MW-8 (cont)																		
11/11/04	738.79	5.99	732.80	<100	--	<250	--	<500	<1	<1	<1	<2	<1	--	--	--	--	--
02/21/05	738.79	6.35	732.44	<100	--	<244	--	<488	<1	<1	<1	<2	<1	--	--	--	--	--
05/16/05	738.79	3.82	734.97	<100	--	<259	--	<518	<1	<1	<1	<2	<1	--	--	--	--	--
07/18/05	738.79	5.58	733.21	<100	--	<257	--	<515	<1	<1	<1	<2	<1	--	--	--	--	--
10/19/05	738.79	5.59	733.20	<48	--	110	--	<97	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
01/24/06	738.79	3.43	735.36	<48	--	<77	--	<96	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
04/12/06	738.79	4.60	734.19	<48	--	<80	--	<100	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
07/24/06	738.94	6.57	732.37	<48	--	<79	--	<98	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
10/24/06	738.94	3.48	735.46	<48	--	<76	--	<94	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
01/30/07	738.94	5.05	733.89	Gauge only														
04/26/07	738.94	4.43	734.51	Gauge only														
07/26/07	738.94	4.77	734.17	Gauge only														
10/24/07	738.94	4.24	734.70	Gauge only														
01/23/08	738.94	4.30	734.64	Gauge only														
04/23/08	738.94	3.98	734.96	Gauge only														
07/24/08	738.94	--	--	Well was not gauged														
10/20/08	738.94	--	--	Well Destroyed - Not gauged or sampled														
MW-9																		
04/27/00	738.66	--	--	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<01.0	<2.0	--	--	--	--	--
08/30/00	738.66	4.22	734.44	<50	--	<250	--	<500	<0.5	<0.5	<0.5	<1	<5	--	--	--	--	--
11/16/00	738.66	5.29	733.37	<50	--	<250	--	<500	<0.5	<0.5	<0.5	<1	<5	--	--	--	--	--
02/22/01	738.66	4.49	734.17	<50	--	<250	--	<500	<0.5	<0.5	<0.5	<1	<1	--	--	--	--	--
05/31/01	738.66	4.65	734.01	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--
08/22/01	738.66	2.77	735.89	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--
11/08/01	738.66	4.82	733.84	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<2	--	--	--	--	--	--
02/05/02	738.66	3.92	734.74	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<1	<2	--	--	--	--	--
05/23/02	738.66	3.88	734.78	<100	--	272	--	<500	<1	<1	<1	<3	<2	--	--	--	--	--
08/13/02	738.66	6.65	732.01	<100	--	<250	--	<500	<0.5	<0.5	<0.5	<1.5	<5	--	--	--	--	--
11/06/02	738.66	6.33	732.33	<100	--	<250	--	<500	<0.5	<0.5	<0.5	<1.5	<5	--	--	--	--	--
02/05/03	738.66	3.05	735.61	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<1	<2	--	--	--	--	--
05/21/03	738.66	2.53	736.13	251	--	<250	--	<500	<0.5	<0.5	<0.5	<1	<2	--	--	--	--	--
08/20/03	738.66	7.28	731.38	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<1	<2	--	--	--	--	--
11/24/03	738.66	3.38	735.28	<100	--	<120	--	<240	<0.25	<0.5	<0.5	<1	<0.5	--	--	--	--	--
02/19/04	738.66	2.97	735.69	<100	--	<124	--	<248	<1	<1	<1	<2	<1	--	--	--	--	--
05/19/04	738.66	4.11	734.55	<100	--	<119	--	<238	<1	<1	<1	<2	<1	--	--	--	--	--
08/12/04	738.66	6.49	732.17	<100	--	<238	--	<476	<1	<1	<1	<2	<1	--	--	--	--	--
11/11/04	738.66	4.71	733.95	<100	--	<248	--	<496	<1	<1	<1	<2	<1	--	--	--	--	--
02/21/05	738.66	5.69	732.97	<100	--	<244	--	<488	<1	<1	<1	<2	<1	--	--	--	--	--
05/16/05	738.66	2.91	735.75	<100	--	<242	--	<483	<1	<1	<1	<2	<1	--	--	--	--	--
07/18/05	738.66	4.05	734.61	<100	--	<245	--	<490	<1	<1	<1	<2	<1	--	--	--	--	--
10/19/05	738.66	3.11	735.55	<48	--	<78	--	<97	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
01/24/06	738.66	2.71	735.95	<48	--	<77	--	<96	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--

SAIC

TABLE 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Site No. 351393
666 Griffin Avenue
Enumclaw, Washington
Concentrations reported in (µg/L)

Well ID/Date	TOC	Depth to Water (ft)	GW Elevation (ft)	TPH-G (µg/L)	TPH-D (10-gram Column Cleanup[1]) (µg/L)	TPH-D[2] (µg/L)	TPH-O (10-gram Column Cleanup[1]) (µg/L)	TPH-O[2] (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	EDC (µg/L)	EDB (µg/L)	Ethanol (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MW-9 (cont)																		
04/12/06	738.66	3.14	735.52	<48	--	<160	--	<200	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
07/24/06	738.81	5.03	733.78	<48	--	<79	--	<99	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
10/24/06	738.81	5.02	733.79	<48	--	<87	--	<110	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
01/30/07	738.81	3.38	735.43	Gauge only														
04/26/07	738.81	2.62	736.19	Gauge only														
07/26/07	738.81	2.71	736.10	Gauge only														
10/24/07	738.81	2.68	736.13	Gauge only														
01/23/08	738.81	2.68	736.13	Gauge only														
04/23/08	738.81	2.43	736.38	Gauge only														
07/24/08	738.81	5.55	733.26	<50	--	<78	--	<97	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
10/20/08	738.81	--	--	Well Destroyed - Not gauged or sampled														
MW-10																		
04/27/00	739.25	--	--	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<1.0	<2.0	--	--	--	--	--
08/30/00	739.25	5.99	733.26	<50	--	<250	--	<500	<0.5	<0.5	<0.5	<1	<5	--	--	--	--	--
11/16/00	739.25	6.83	732.42	<50	--	<250	--	<500	<0.5	<0.5	<0.5	<1	<5	--	--	--	--	--
02/22/01	739.25	7.74	731.51	<50	--	<250	--	<500	<0.5	<0.5	<0.5	<1	<1	--	--	--	--	--
05/31/01	739.25	5.02	734.23	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--
08/22/01	739.25	6.08	733.17	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<1	--	--	--	--	--	--
11/08/01	739.25	4.18	735.07	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<2	--	--	--	--	--	--
02/05/02	739.25	3.90	735.35	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<1	<2	--	--	--	--	--
05/23/02	739.25	4.90	734.35	<100	--	<250	--	<500	<1	<1	<1	<3	<2	--	--	--	--	--
08/13/02	739.25	6.15	733.10	<100	--	<250	--	<500	<0.5	<0.5	<0.5	<1.5	<5.0	--	--	--	--	--
11/06/02	739.25	6.23	733.02	<100	--	<250	--	<500	<0.5	<0.5	<0.5	<1.5	<5.0	--	--	--	--	--
02/05/03	739.25	3.74	735.51	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<1	<2	--	--	--	--	--
05/21/03	739.25	4.85	734.40	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<1	<2	--	--	--	--	--
08/20/03	739.25	7.25	732.00	<80	--	<250	--	<500	<0.5	<0.5	<0.5	<1	<2	--	--	--	--	--
11/24/03	739.25	3.25	736.00	<100	--	--[3]	--	--[3]	<0.25	<0.5	<0.5	<1	<0.5	--	--	--	--	--
02/19/04	739.25	4.45	734.80	<100	--	<125	--	<251	<1	<1	<1	<2	<1	--	--	--	--	--
05/19/04	739.25	5.60	733.65	<100	--	<118	--	<236	<1	<1	<1	<2	<1	--	--	--	--	--
08/12/04	739.25	6.68	732.57	<100	--	<246	--	<492	<1	<1	<1	<2	<1	--	--	--	--	--
11/11/04	739.25	5.21	734.04	<100	--	<269	--	<539	<1	<1	<1	<2	<1	--	--	--	--	--
02/21/05	739.25	5.66	733.59	<100	--	<245	--	<490	<1	<1	<1	<2	<1	--	--	--	--	--
05/16/05	739.25	4.39	734.86	<100	--	<246	--	<493	<1	<1	<1	<2	<1	--	--	--	--	--
07/18/05	739.25	5.59	733.66	<100	--	<248	--	<496	<1	<1	<1	<2	<1	--	--	--	--	--
10/19/05	739.25	5.22	734.03	<48	--	210	--	170	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
01/24/06	739.25	4.30	734.95	<48	--	<77	--	<96	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
04/12/06	739.25	5.12	734.13	<48	--	<77	--	<96	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
07/24/06	739.43	6.35	733.08	<48	--	<80	--	<100	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
10/25/06	739.43	6.36	733.07	<48	--	<78	--	150	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
01/30/07	739.43	4.79	734.64	Gauge only														
04/26/07	739.43	5.09	734.34	Gauge only														
07/26/07	739.43	5.60	733.83	Gauge only														

SAIC

TABLE 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Site No. 351393
666 Griffin Avenue
Enumclaw, Washington
Concentrations reported in (µg/L)

Well ID/Date	TOC	Depth to Water (ft)	GW Elevation (ft)	TPH-G (µg/L)	TPH-D (10-gram Column Cleanup[1]) (µg/L)	TPH-D[2] (µg/L)	TPH-O (10-gram Column Cleanup[1]) (µg/L)	TPH-O[2] (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	EDC (µg/L)	EDB (µg/L)	Ethanol (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MW-10 (cont)																		
10/24/07	739.43	4.68	734.75	Gauge only														
01/23/08	739.43	4.83	734.60	Gauge only														
04/23/08	739.43	4.99	734.44	Gauge only														
07/24/08	739.43	6.24	733.19	<50	--	<78	--	<97	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
10/20/08	739.43	--	--	Well Destroyed - Not gauged or sampled														
MW-11																		
08/20/03	736.64	13.27	723.37	<80	--	<357	--	<714	<0.5	<0.5	<0.5	<1	<2	--	--	--	--	--
11/24/03	736.64	6.35	730.29	<100	--	<120	--	<241	<0.25	<0.5	<0.5	<1	<0.5	--	--	--	--	--
02/19/04	736.64	5.26	731.38	<100	--	<131	--	<262	<1	<1	<1	<2	<1	--	--	--	--	--
05/19/04	736.64	7.18	729.46	<100	--	<124	--	<249	<1	<1	<1	<2	<1	--	--	--	--	--
08/12/04	736.64	12.53	724.11	<100	--	<271	--	<542	<1	<1	<1	<2	<1	--	--	--	--	--
11/11/04	736.64	7.17	729.47	<100	--	<267	--	<533	<1	<1	<1	<2	<1	--	--	--	--	--
02/21/05	736.64	7.33	729.31	<100	--	<246	--	<491	<1	<1	<1	<2	<1	--	--	--	--	--
05/16/05	736.64	3.61	733.03	<100	--	<245	--	<489	<1	<1	<1	<2	<1	--	--	--	--	--
07/18/05	736.64	5.42	731.22	<100	--	<240	--	<479	<1	<1	<1	<2	<1	--	--	--	--	--
10/19/05	736.64	6.05	730.59	<48	--	<800	--	<1.0009	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
01/24/06	736.64	3.63	733.01	<48	--	<77	--	<96	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
04/12/16	736.64	4.46	732.18	<48	--	<160	--	<200	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
07/24/06	738.36	7.72	730.64	<48	--	<83	--	<100	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
10/24/06	738.36	8.32	730.04	<48	--	<78	--	<98	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	--
01/30/07	738.36	5.58	732.78	Gauge only														
04/26/07	738.36	4.46	733.90	Gauge only														
07/26/07	738.36	4.48	733.88	Gauge only														
10/24/07	738.36	5.02	733.34	Gauge only														
01/23/08	738.36	4.67	733.69	Gauge only														
04/23/08	738.36	4.37	733.99	Gauge only														
07/24/08	738.36	--	--	Well was not gauged														
10/20/08	738.36	4.80	733.56	Gauge only														
01/14/09	738.36	3.68	734.68	<25	--	<38	--	<63	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
04/27/09	738.36	4.30	734.06	<50.0	--	<84	--	<420	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<0.010	--	<1.0	<1.0
07/28/09	738.36	8.17	730.19	<50.0	--	<76.9	--	<385	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
10/20/09	738.36	5.19	733.17	<50.0	--	<78.4	--	<392	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--
01/18/10	738.36	3.79	734.57	<50.0	--	<77.7	--	<388	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
04/20/10	738.36	4.14	734.22	<50.0	--	<78.4	--	<392	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
07/19/10	738.36	4.74	733.62	<50.0	--	<78.4	--	<392	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
10/18/10	738.36	4.72	733.64	<50.0	--	<78.4	--	<392	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
01/25/11	738.36	2.45	735.91	<50.0	--	<77.7	--	<388	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
04/11/11	738.36	3.25	735.11	<50.0	--	<77.7	--	<388	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
07/05/11	738.36	4.61	733.75	<50.0	--	<77.7	--	<388	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
11/30/11	738.36	3.72	734.64	<50	<30	<29	<70	<67	<0.5	<0.5	<0.5	<0.5	--	--	--	<50	--	--
03/02/12	738.36	3.38	734.98	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	--	--	--	<50	--	--
05/09/12	738.36	3.47	734.89	<50	<30	<30	<70	<70	<0.5	<0.5	<0.5	<0.5	--	--	--	<50	--	--

SAIC

TABLE 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Site No. 351393
666 Griffin Avenue
Enumclaw, Washington
Concentrations reported in (µg/L)

Well ID/Date	TOC	Depth to Water (ft)	GW Elevation (ft)	TPH-G (µg/L)	TPH-D (10-gram Column Cleanup[1]) (µg/L)	TPH-D[2] (µg/L)	TPH-O (10-gram Column Cleanup[1]) (µg/L)	TPH-O[2] (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	EDC (µg/L)	EDB (µg/L)	Ethanol (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MW-11 (cont)																		
11/29/12	738.36	4.83	733.53	<50	<30	<31	<70	<72	<0.5	<0.5	<0.5	<0.5	--	--	--	<50	--	--
MTCA Method A Cleanup Levels:				1,000/800[a]	500	500	500	500	5	1,000	700	1,000	20	5	0.01	NE	15	15

NOTES:

All concentrations are in micrograms per liter (µg/L)
GW Elevation = Groundwater elevation in feet relative to top of casing elevation
TOC = Top of casing elevation in feet
TPH-G = Gasoline range hydrocarbons by Ecology Method NWTPH-Gx
TPH-D and TPH-O = Diesel and oil range hydrocarbons, respectively, by Ecology Method NWTPH-Dx
BTEX = Benzene, Toluene, Ethylbenzene, and Total Xylenes by EPA Method 8260B; previous results by 8021B or 8260B, refer to laboratory reports
MTBE = Methyl tert-butyl ether by EPA Method 8260B
EDC = 1,2-Dichloroethane by EPA Method 8260
EDB = 1,2-Dibromoethane by EPA Method 8011
Total and dissolved lead by EPA Method 6020
-- = Not Analyzed or Sampled
< = Less than the stated laboratory reporting limits
NE = Not established
1a = Analysis conducted outside the COP holding time, but within the EPA method holding time
3a = Analyte was detected in the associated method blank as well as in the sample. The concentration found in the sample was ten times greater than the amount found in the blank
B+ = Analyte was detected in the associated method blank as well as in the sample
P2 = Re-extraction or re-analysis could not be performed due to insufficient sample amount
S2 = Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis)
S5 = Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis)
[1] = 10-gram column silica gel cleanup method used
[2] = Quick silica gel cleanup used
Bolded values exceed Model Toxics Control Act (MTCA) Method A Cleanup Levels
[a] MTCA Method A levels for TPH-g are 1000 µg/L when no Benzene is present and 800 µg/L when Benzene is present
[b] The Method reporting limit is above the MTCA Method A cleanup levels
[c] Surrogates were not spiked due to analyst error. The sample was reanalyzed out of hold with in control surrogate recoveries. Because the concentration for gasoline range organics was identical to the original analysis, the results were reported from the original analysis
Data prior to 11/30/11 was provided to ARCADIS by Stantec Inc

SAIC

Attachment A:
Groundwater Monitoring and Sampling Data Package

WELL GAUGING DATA

Project # 121129-331 Date 11/29/12 Client CHEVRON

Site 666 GRIFFIN AVE., ENCINO

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or (TOC)	Notes
MW-1	0818	2					1.92	14.52		
MW-2	0804	2					1.95	15.35		
MW-3A	0833	2					2.41	17.15		
MW-4	0823	2					2.20	17.30		
MW-5	0809	2					1.75	14.58		
MW-6	0827	2					2.53	12.05		
MW-7	0813	2					1.81	12.80		
MW-11	0735	2					4.83	14.80	↓	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121129-JB1	Client: CHEVRON
Sampler: JB	Gauging Date: 11/29/12
Well I.D.: MW-1	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.52	Depth to Water (ft.): 1.92
Depth to Free Product: ___	Thickness of Free Product (feet): ___
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

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

Start Purge Time: 1102 Flow Rate: 200 ml/min Pump Depth: 9'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or ~~µS/cm~~)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
1105	13.45	6.18	363	8	0.81	-21.9	600	1.98
1108	13.58	6.18	380	6	0.74	-28.3	1200	2.00
1111	13.63	6.18	385	6	0.70	-32.7	1800	2.02
1114	13.65	6.17	389	6	0.64	-35.1	2400	2.04
1117	13.61	6.17	392	5	0.62	-38.9	3000	2.05

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

Sampling Time: 1118 Sampling Date: 11/29/12

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

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

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

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121129.531	Client: CHEVRON
Sampler: SB	Gauging Date: 11/29/12
Well I.D.: MW-2	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 15.35	Depth to Water (ft.): 1.95
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

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

Start Purge Time: 0843 Flow Rate: 200 mL/min Pump Depth: 10'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0846	14.27	6.34	264	46	0.97	-68.3	600	2.03
0849	14.43	6.36	273	39	0.92	-73.5	1200	2.08
0852	14.45	6.37	274	36	0.89	-76.7	1800	2.12
0855	14.41	6.37	274	34	0.85	-79.1	2400	2.15
0858	14.38	6.38	276	35	0.82	-82.6	3000	2.18

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

Sampling Time: 0859 Sampling Date: 11/29/12

Sample I.D.: MW-2 Laboratory: LANCASTER

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

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

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121129-JB1	Client: CHEVRON
Sampler: JB	Gauging Date: 11/29/12
Well I.D.: MW-3A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 17.15	Depth to Water (ft.): 2.41
Depth to Free Product: ———	Thickness of Free Product (feet): ———
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump

Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 1127 Flow Rate: 200 mL/min Pump Depth: 10'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1130	12.65	6.34	536	6	0.64	-79.4	600	2.53
1133	12.88	6.35	560	6	0.58	-84.7	1200	2.56
1136	13.05	6.36	565	6	0.52	-89.6	1800	2.58
1139	13.20	6.37	567	5	0.49	-93.2	2400	2.61
1142	13.29	6.39	570	6	0.48	-95.8	3000	2.64

Did well dewater? Yes (No)	Amount actually evacuated: 3 L
Sampling Time: 1143	Sampling Date: 11/29/12
Sample I.D.: MW-3A	Laboratory: LANCASTER
Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D)	(Other) SEE COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121129-331	Client: Chevron
Sampler: SS	Gauging Date: 11/29/12
Well I.D.: MW-4	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 17.30	Depth to Water (ft.): 2.20
Depth to Free Product: ———	Thickness of Free Product (feet): ———
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

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

Start Purge Time: 1025 Flow Rate: 200 mL/min Pump Depth: 10'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1028	12.52	6.32	361	9	1.45	-29.1	600	2.32
1031	12.63	6.34	374	6	1.13	-35.9	1200	2.34
1034	12.65	6.36	378	6	0.97	-38.4	1800	2.35
1037	12.65	6.36	381	5	0.92	-42.7	2400	2.37
1040	12.63	6.37	382	5	0.89	-45.3	3000	2.39

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

Sampling Time: 1041 Sampling Date: 11/29/12

Sample I.D.: MW-4 Laboratory: Lancaster

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) (Other) 8260C

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

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121129-531	Client: CHEVRON
Sampler: SB	Gauging Date: 11/29/12
Well I.D.: MW-5	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.58	Depth to Water (ft.): 1.75
Depth to Free Product: ___	Thickness of Free Product (feet): ___
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

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

Start Purge Time: 0918 Flow Rate: 200 ml/min Pump Depth: 10'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0921	11.28	6.16	372	6	1.26	-20.0	600	1.86
0924	11.34	6.14	385	5	1.12	-26.1	1200	1.90
0927	11.32	6.16	389	5	1.05	-29.3	1800	1.93
0930	11.28	6.16	393	5	1.00	-32.5	2400	1.96
0933	11.23	6.17	399	4	0.98	-36.0	3000	2.00

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

Sampling Time: 0934 Sampling Date: 11/29/12

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

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) (Other) 5660

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

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121129-T31	Client: CHEVRON
Sampler: TB	Gauging Date: 11/29/12
Well I.D.: MW-6	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 12.05	Depth to Water (ft.): 2.53
Depth to Free Product: ___	Thickness of Free Product (feet): ___
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

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

Start Purge Time: 1205 Flow Rate: 200 mL/min Pump Depth: 8'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1208	12.25	6.48	300	7	0.52	-62.9	600	2.65
1211	12.64	6.44	300	5	0.42	-69.4	1200	2.68
1214	12.61	6.46	302	5	0.39	-73.8	1800	2.71
1217	12.57	6.46	302	5	0.34	-76.2	2400	2.74
1220	12.55	6.47	302	5	0.31	-80.1	3000	2.76

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

Sampling Time: 1221 Sampling Date: 11/29/12

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

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

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

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121129-531	Client: CHEVRON
Sampler: SA	Gauging Date: 11/29/12
Well I.D.: MW-7	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 12.80	Depth to Water (ft.): 1.81
Depth to Free Product: ___	Thickness of Free Product (feet): ___
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

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

Start Purge Time: 0953 Flow Rate: 200 ml/min Pump Depth: 8'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0956	12.37	6.50	142	5	1.81	201.7	600	2.03
0959	12.53	6.34	138	4	1.72	197.4	1200	2.06
1002	12.48	6.28	137	4	1.65	194.1	1800	2.08
1005	12.44	6.24	137	4	1.59	191.8	2400	2.11
1008	12.39	6.22	136	4	1.57	189.2	3000	2.13

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

Sampling Time: 1009 Sampling Date: 11/29/12

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

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

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

LOW FLOW WELL MONITORING DATA SHEET

Project #: 121129-581	Client: CHEVRON
Sampler: SB	Gauging Date: 11/29/12
Well I.D.: MW-11	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.80	Depth to Water (ft.): 4.83
Depth to Free Product: ___	Thickness of Free Product (feet): ___
Referenced to: (PVC) Grade	Flow Cell Type: 251556

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

Start Purge Time: 0740 Flow Rate: 200 ml/min Pump Depth: 10'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0743	13.81	6.22	139	11	2.61	209.1	600	4.95
0746	13.77	6.17	140	9	2.53	205.4	1200	5.00
0749	13.92	6.14	140	7	2.48	201.7	1800	5.04
0752	13.93	6.12	140	7	2.43	198.8	2400	5.09
0755	13.98	6.12	140	6	2.39	196.3	3000	5.13

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

Sampling Time: 0756 Sampling Date: 11/29/12

Sample I.D.: MW-11 Laboratory: LANCASTER

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) (Other) SILICA

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

CHAIN OF CUSTODY FORM

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

Chevron Site Number: 35-1393

Program Designation: CMP

Site Address (street, city, state / county): 866 Griffin Ave, Enumclaw, WA

Chevron PM:

Chevron PM Phone No.:

☐ Retail and Terminal Business Unit (RTBU) Job
☐ Construction/Retail Job

Chevron Consultant: ARCADIS

Address: 3240 El Camino Real, Irvine, CA

Consultant Contact: Colleen Martin

Consultant Phone No. 503-220-8201

Consultant Project No. 121129-SB1

Sampling Company: Blaine Tech Services

Sampled By (Print): Sal Bustamante

Sampler Signature: [signature]

Charge Code: NWRTB-0351393-O-OML
NWRTB 00SITE NUMBER-0- OML

WBS ELEMENTS:
SITE ASSESSMENT: A1L — REMEDIATION IMPLEMENTATION: R5L
SITE MONITORING: OML — OPERATION MAINTENANCE & MONITORING: M1L

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

Other Lab

Temp. Blank Check Time	Temp.
0810	3°
0945	3°
1200	3°

ANALYSES REQUIRED

Preservation Codes: H = HCL T = Thiosulfate N = HNO$_3$ B = NaOH S = H_2SO_4 O = Other

Special Instructions: "Run both the 10g silica gel clean up and the quick silica gel clean up methods."

Field Point Name	Matrix	Top Depth	Date (yymmdd)	Sample Time	# of Containers	Container Type	TPH-DRO w/ SILICA GEL CLEANUP (97-602M) (NWTPH-Dx w/ sgc)	TPH-ORO w/ SILICA GEL CLEANUP (97-602M) (NWTPH-Dx w/ sgc)	TPH-HRO w/ SILICA GEL CLEANUP (97-602M) (NWTPH-Dx w/ sgc)	8260B FULL LIST☐ EDC☐ EDB☐ TBA☐ TAME☐ ETHANOL☒ BTEX☒ MTBE☐	PAH's☐ cPAH's☐ 8270 SIM	TPH-G (NWTPH-Gx)	TOTAL LEAD (6020)	DISSOLVED LEAD (6020)	TPH-D AND TPH-O BY (NWTPH-DX)			Notes/Comments
Preservation							H	H		H		H			H			
MW-1	W	—	121129	1118	8	VOA, AMBER	X	X		X		X			X			
MW-2	↓	—	↓	0859	↓	↓	X	X		X		X			X			
MW-3A	↓	—	↓	1143	↓	↓	X	X		X		X			X			
MW-4	↓	—	↓	1041	↓	↓	X	X		X		X			X			
MW-5	↓	—	↓	0934	↓	↓	X	X		X		X			X			
MW-6	↓	—	↓	1221	↓	↓	X	X		X		X			X			
MW-7	↓	—	↓	1009	↓	↓	X	X		X		X			X			
MW-11	↓	—	↓	0756	↓	↓	X	X		X		X			X			
QA	T	—	↓	0730	3	VOA				X		X						

Relinquished By	Company	Date/Time:	Relinquished To	Company	Date/Time
[signature]	Blaine		SHIPPED VIA FEDEX		
Relinquished By	Company	Date/Time	Relinquished To	Company	Date/Time
Relinquished By	Company	Date/Time	Relinquished To	Company	Date/Time

Turnaround Time: Standard☒ 24 Hours☐ 48 hours☐ 72 Hours☐ Other☐

Sample Integrity: (Check by lab on arrival)

Intact: ____ On Ice: ____ Temp: ____

COC #

WELLHEAD INSPECTION FORM

Client: CHEVRON Site: 666 GRIFFIN AVE, SUNOCLAW Date: 11/29/12

Job #: 121129-SS1 Technician: JS Page 1 of 1

Well ID	Well Inspected - No Corrective Action Required	Check Indicates deficiency: Cap non-functional	Lock non-functional	Lock missing	Bolts missing (list qty)	Tabs stripped (list qty)	Tabs broken (list qty)	Annular seal incomplete	Apron damaged	Rim / Lid broken	Trip Hazard	Below Grade	Other (explain in notes)	Well Not Inspected (explain in notes)	Notes (list if cap or lick replaced, if there are access issues associated with repairs, if traffic control is required, if stand pipe damaged, or any specific details not covered by checklist)
MW-1				X	1/3	3/3									
MW-2									X						
MW-3A					1/3	3/3									
MW-4						3/3									
MW-5						3/3									
MW-6					2/3		2/3								BOLTS 2/3 BROKEN WTOPS
MW-7						3/3									
MW-11						3/3									

NOTES:

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

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

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

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

35-1393 — Mark Ingle

CHEVRON # — Chevron Project Manager

666 — Griffin Ave — Enumclaw — WA

Street number — street name — city — state

WELL I.D.	GALS.	WELL I.D.	GALS.
MW-1	1		
MW-2	1		
MW-3A	1		
MW-4	1		
MW-5	1		
MW-6	1		
MW-7	1		
MW-11	1		

added equip. rinse water / 8

any other adjustments /

TOTAL GALS. RECOVERED 16

loaded onto BTS vehicle # 88

BTS event # 121129-331 — time 1230 — date 11/29/12

signature

GENERAL PERMIT TO WORK /TAILGATE MEETING – Chevron

Version 01.04.2012
Permit ID: ____ (Facility #) Year Month Day
Example: 1125770 – 11 – 12 – 05 (Section not required – for Ling only)

Project Name: 35-1393

Project Location (Address): COLLEGE MERTN **Chevron Facility #:** 35-1393

Chevron Project Manager: 666 GRIFFIN AVE. GUNMAN **Total # of Companies at Site:** 1

Valid Date (1 day): 11/29/12 **Person Conducting Meeting:** SAL BUSTAMANTE

Modifications to this form may not be made unless approved by the ARCADIS-Chevron Principal in Charge (PIC) – John Vegeley. This Permit is intended to be completed in the field by a qualified and predetermined Permit Approver. The individual completing this permit should communicate each section to field staff during the daily safety meeting. It is intended to serve as a tool for identifying and mitigating hazards that affect every worker on site. Solicit input from persons attending the safety meeting during permit completion. Resolve all "NO" responses prior to starting work.

1a.	Have necessary work permits (local, state and/or federal) been obtained (including those for subcontractors)?	☒ Yes ☐ No ☐ N/A
1b	If CONFINED SPACE activities are to be conducted has the CONFINED SPACE portion of the HIGH RISK WORK PERMIT been completed?	☐ Yes ☐ No ☒ N/A
1c	If EXCAVATION / TRENCHING / DRILLING / OVERHEAD CLEARANCE activities deeper than 4 feet and/or within 10 feet of a high pressure gas line and/or within 3 feet of a buried active product or electric line or overhead work involving equipment within 15 feet of an overhead electric line or pole supporting the line are to be conducted has the applicable portion of the HIGH RISK WORK PERMIT been completed? In Latin America, will drilling activities be conducted? Drilling/Hot Work Sections on HIGH RISK WORK PERMIT completed?	☐ Yes ☐ No ☒ N/A
1d	If HOTWORK activities are to be conducted has the HOTWORK and FIRE MONITOR ACTIVITY LOG portions of the HIGH RISK WORK PERMIT been completed?	☐ Yes ☐ No ☒ N/A
1e	If LOCK OUT / TAG OUT (LO/TO) activities are to be conducted has the LO/TO portion of the HIGH RISK WORK PERMIT been completed?	☐ Yes ☐ No ☒ N/A
1f	If DIVING activities are to be conducted has the DIVING portion of the HIGH RISK WORK PERMIT been completed?	☐ Yes ☐ No ☒ N/A
1g	If workers are WORKING AT an ELEVATION over 6 feet has the WORKING AT ELEVATION portion of the HIGH RISK WORK PERMIT been completed?	☐ Yes ☐ No ☒ N/A
1h	If workers are BOATING or WORKING NEAR OPEN WATER has the applicable portion of the HIGH RISK WORK PERMIT been completed?	☐ Yes ☐ No ☒ N/A
1i	If DEMOLITION, REMOVAL OF PIPELINES AND BURIED STRUCTURES work activities are to be conducted has the EXCAVATION / TRENCHING / DRILLING / OVERHEAD CLEARANCE and DEMOLITION, REMOVAL OF PIPELINES AND BURIED STRUCTURES portions of the HIGH RISK WORK PERMIT been completed?	☐ Yes ☐ No ☒ N/A
2.	Have applicable pre-trip paperwork (JMP and vehicle inspection checklists) been completed by ARCADIS personnel and ARCADIS subcontractors (if applicable)? Has subcontractor paperwork been inspected?	☒ Yes ☐ No ☐ N/A
3.	HASP: Have all sections of the Health & Safety Plan (E-HASP) applying to today's tasks been reviewed?	☒ Yes ☐ No ☐ N/A
4	HASP: Has the E-HASP been signed by appropriate on-site personnel?	☒ Yes ☐ No ☐ N/A
5.	HASP: Have all visitors and workers completed the E-HASP written test? Have all tested been graded? Deficiencies reviewed?	☒ Yes ☐ No ☐ N/A
6	HASP: Have the action levels and work zones been identified and reviewed?	☒ Yes ☐ No ☐ N/A
7.	HASP: Will traffic control efforts comply with Chevron and ARCADIS requirements? (See Back Page for Chevron Requirements)	☐ Yes ☐ No ☒ N/A
8a	Air Monitoring: Air monitoring being conducted? (If yes, then complete 8b – 8d)	☐ Yes ☒ N/A
8b	Air Monitoring: Is monitoring equipment present and properly calibrated?	☐ Yes ☐ No ☒ N/A
8c	Air Monitoring: Have E-HASP requirements for air monitoring been reviewed?	☐ Yes ☐ No ☒ N/A
8d	Air Monitoring: Will Air Monitoring Log be completed by Health & Safety Supervisor (SSO)?	☐ Yes ☐ No ☒ N/A
9.	Has Chevron's hand safety policy, including FOBK prohibition, Stop Work Authority been discussed and highlighted during the health and safety meeting (See Statement on Back Page)	☒ Yes ☐ No ☐ N/A
10	Have Operational Excellence Tenets been discussed and highlighted during the daily health and safety meeting? (See Back Page for Reference)	☒ Yes ☐ No ☐ N/A
11.	Electrical: Will GFCI in-line protectors, positioned next to the power source, be tested and utilized if AC-powered equipment is used?	☒ Yes ☐ No ☐ N/A
12.	Electrical: Have electrical cords and been inspected prior to use?	☒ Yes ☐ No ☐ N/A
13.	Electrical: If electricians will be required to work in live panels, have they been trained on NFPA 70E? Are they prepared to comply with NFPA 70E requirements?	☐ Yes ☐ No ☒ N/A
14	Equipment Operation: Are above-ground utilities identified and clearly visible by equipment operators? Underground utilities marked?	☐ Yes ☐ No ☒ N/A
15	Equipment Operation: Has AN equipment inspection checklist been completed for all equipment being used today? Note: Checklists may vary by office, subcontractor and equipment	☐ Yes ☐ No ☒ N/A
16	Equipment Operation or subsurface work: Has the underground/overhead utilities checklist been completed?	☐ Yes ☐ No ☒ N/A
17.	+ Have shut-off switches/valves been located (as required by scope work)?	☐ N/A ☐ Electric ☒ Gas ☐ Water ☐ Other ☐ N/A
18.	+ Are proper traffic and/or fire control measures in-place?	☐ Traffic ☐ Fire Prevention ☒ N/A
19	+ Who is the designated SSO for today?	Name: SAL BUSTAMANTE
20	+ Does everyone know his/her role during an emergency? E-HASP section related to emergency roles and responsibilities reviewed?	☒ Yes ☐ No ☐ N/A
21	+ Does everyone know the location, directions, and name of the nearest hospital?	☒ Yes ☐ No ☐ N/A
22	+ Has a plan been established to ensure emergency responders can easily locate or be escorted to the work site?	☒ Yes ☐ No ☐ N/A
23	+ Where is the nearest working phone located (non-cell phone)?	Location: OFFICE
24.	+ Where is the location of the primary first aid kit (to include portable eyewash & CPR shield)?	Location: IN CAB
25	+ Where is the location of the primary fire extinguisher?	Location: IN CAB
26	+ Have signals or alarms (stop work, sheltering, evacuation, etc.) been communicated to everyone on site? Without conflicts with other work activity?	☒ Yes ☐ No ☐ N/A
27.	+ Are weather conditions acceptable or have associated risks been mitigated? Are hydrating fluids (no caffeine) available to workers? Shade? Shelter within reasonable distance?	☒ Yes ☐ No ☐ N/A
28	+ Document last inspection date of primary fire extinguisher and expiration of primary first aid kit contents. Extinguisher - 04/2013	First Aid Kit - 08/2013
29.	Have modifications to safety procedures or documentation (ie JMP, TCP) been made and communicated to onsite personnel?	☒ Yes ☐ No ☐ N/A
30.	Are MSDS for ALL chemicals being used at site (oils, detergents, preservatives, etc.) included in E-HASP? Have crews using these chemicals read the MSDS? Are they readily available for quick review or to hand off to EMS personnel?	☒ Yes ☐ No ☐ N/A
31.	Waste labels prepared? Solid waste drums stored on pallets? Liquid waste drums stored on secondary containment? Drums stored at location acceptable to property owner?	☐ Yes ☐ No ☐ N/A
32.	Is waste currently on site? If so, what is the status of the disposal process: CIRCLE ONE of the FOLLOWING: 1. [illegible] / 2. [illegible] / 3. [illegible] / (OTHER) — ON TRUCK	☐ Yes ☐ No ☒ N/A

33	What is the scope of work for ARCADIS and ARCADIS subcontractors today?	List Company Responsible	JLA prepared and/or reviewed TODAY for each task?
A)	GROUNDWATER SAMPLING	BBING	☒ Yes ☐ No ☐ N/A
B)			☐ Yes ☐ No ☐ N/A
C)			☐ Yes ☐ No ☐ N/A
D)			☐ Yes ☐ No ☐ N/A

Hazard Identification Tool

Utilize the table below to identify and summarize briefly what hazards exist, where on site and/or as a result of what process. Summarize critical actions necessary to mitigate these hazards. This section should be completed IN ADDITION TO the JOB LOSS ANALYSIS (JLA) required for the day and should assist in JLA preparation. This section is intended to serve as a tool and not a duplication of efforts. Be as brief as possible on THIS TABLE

Energy Source	Hazards	Critical Action(s)
Gravity Falling objects, collapsing roof and a body tripping/falling	SLIPS, FALLS	CLEAR WORK ZONE
Motion Vehicle, vessel, or equipment movement, flowing water, wind, and body positioning when lifting, straining or bending	VEHICLE MOVING	E BRAKE. BLOCKS
Mechanical Rotating equipment, compressed springs, drive belts, conveyors and motors	PUMP	SOP
Electrical Power lines, transformers, static charges, lightning, energized equipment, wiring and batteries	GENERATOR	GFCI
Pressure Pressure piping, compressed cylinders, control lines, vessels, tanks, hoses, and pneumatic and hydraulic equipment	WASHER	PPE
Temperature Open flame, ignition sources, hot or cold surfaces, liquids or gasses, steam, friction, and general environmental and weather conditions	WASHER	PPE
Chemical Flammable vapors, reactive hazards, carcinogens or other toxic compounds, corrosives, pyrophorics, combustibles, oxygen-deficient atmospheres, welding fumes, dusts	HCL	PPE
Biological Animals, bacteria, viruses, insects, blood-borne pathogens, improperly handled food and contaminated drinking water	SPIDERS. INSECTS	LOOK BEFORE REACHING
Radiation Lighting issues, welding arcs, solar rays, microwaves, lasers, X-rays and naturally occurring radioactive material (NORM)	SUN	PPE
Sound Equipment noise, impact noise, vibration, high-pressure release and the impact of noise to communication	GENERATOR	PPE

ALL PERMITS MUST BE RETAINED IN A UNIQUE LOCATION DESIGNATED FOR PERMITS ONLY

34.	Are personnel qualified to perform work at site? Training records verified and available onsite for review?	☒ Yes ☐ No ☐ N/A
35.	Are appropriate tools on-site to complete tasks safely and appropriately? Discussed in JLAs?	☒ Yes ☐ No ☐ N/A
36.	Locally fabricated equipment approved by Chevron PM?	☐ Yes ☐ No ☒ N/A
37.	Will work conducted in a multiple work zones or by multiple crews have the potential to impact each other? If so, is there a plan detailed on each JLA to address communication between work zones/companies?	☐ Yes ☐ No ☒ N/A
38.	Level of PPE required for each task specified to workers (Level C, Level D, etc.)? PPE specifics discussed and documented in JLAs?	☒ Yes ☐ No ☐ N/A
39.	Motor vehicle precautions discussed? Maintain a minimum of 3 feet from objects; avoid backing without a spotter, if possible; forward motion always preferred; set parking brake.	☒ Yes ☐ No ☐ N/A

Special Safety Concerns For Today

Personnel wishing to volunteer information relating to allergies/ailments/illnesses AND whether s/he is wearing contact lenses:

Last Name:	Note:	Last Name:	Note:
Last Name:	Note:	Last Name:	Note:

Short Service Employee List (requires prior Chevron PM approval – no more than 1 SSE if < 5 Workers on Site)

Short Service Employees On-Site	Short Service Mentor

Signature Section

NOTICE TO ALL WORKERS: – By signing below, you agree that you have read and fully understand the JLAs applicable to you and your assigned duties.

Name (PRINT)	Company	Before Work (Time)	Signature	Mid Day (Time)	Initials (Mid-Day Meeting)
1. Sav Bustamante	Stantec	0730	[signature]		
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					

"I have assessed the risks posed by work activities planned for today and steps to mitigate those risks (e.g. E-HASP, JLA, PTW, tailgate meeting, coordination with other parties on site, etc.) have been completed to the best of our ability. Issues identified on the front page of this permit have been corrected. Work is safe to proceed. If site conditions change, Stop Work Authority will be used to assess work conditions."

Permit Approver: Sav Bustamante **Date** 6/29/17

Time Work Approved to Proceed: 0730 **Time Work to Cease (Permit Closed):** 1230

Daily H&S Activity Log / End of Day Summary

Time	ARCADIS Employee	Activity (LPO, Near Loss, Incident, Stop Work, Audit, etc.)	Comments

Reference Section

5 Keys to Operational Discipline

- ✓ Everyone knows how to do their job correctly and safely.
- ✓ Supervisors and leaders reinforce the right behaviors and correct poor behavior and performance.
- ✓ Workers recognize hazards and anticipate unusual situations.
- ✓ Workers expect and demand that their coworkers follow procedures.
- ✓ When unusual situations occur, work is stopped and change is effectively managed.

Operational Discipline: Every task, the right way, every time.

Safety Vest Classes

NONE – High visibility safety vest with no reflective bands	NOT ALLOWED ON CHEVRON PROJECT SITES
Class II – High visibility safety vest with reflective bands around chest, shoulders and back	Minimum class allowed at Chevron project sites, used in standard lighting conditions and mod. traffic conditions
Class III – High visibility safety vest with reflective bands around chest or waist, shoulders and sleeves	When performing night-time work or work in low light conditions; when working near areas where traffic flow is over 50 mph

Chevron Work Zone Level Summary

Level I	Min. of 4 delineators, with liner, space between of 4 feet. Use buddy system and vehicle with flashers as necessary.
Level II	Barrier tape on delineators with flags and the use of field vehicles (with flashing yellow light or vehicle hazard lights) and/or other lane control devices. Metal barricades may be used in conjunction because of the noise they make if knocked over. The buddy system should be used in areas where the worker cannot give undivided attention to traffic when exposed to traffic hazards. Use for temporary securing of an area (for sampling ground water, hand digging, etc.) or for temporary isolation of an area for storing or moving equipment/supplies.
Level III	Plastic Security Fencing and/or Type 2 or 3 barricades. A flashing yellow light on the vehicle may be used for additional visibility. Be cognizant of blocking of pump islands and any other dealer concerns. To be used when there is heavy equipment, power tools, in areas near electrically energized or rotating equipment, as protection for workers or public near slow moving traffic or with high traffic volume, in driveways, around tripping hazards, and to control third party foot traffic. If there is no third party traffic potential then Level 3 is NOT required.
[illegible]	Often requires oversight by a licensed traffic controller. In the U.S., the DOT requires signage and protection devices – refer to the Manual on Uniform Traffic Control Devices (MUTCD). Your country/state/region may have more stringent requirements (e.g., Caltrans WATCH Manual in California). A thorough Job Safety Analysis is required. Note: If the likelihood of vehicles backing in a public right-of-way is low, the 48" minimum height of control devices may not apply.

Loss Prevention Self-Assessment

BEFORE BEGINNING ANY ACTIVITY/TASK/JOB, AFTER A LOSS OR NEAR LOSS, ANY UNUSUAL CIRCUMSTANCES:

ASSESS the risk!

ANALYZE how to reduce the risk!

ACT to ensure loss-free operations!

DO NOT PROCEED UNLESS ALL RISKS HAVE BEEN ADDRESSED!

For Everyone • Every Day • All the Time

Chevron Tenets of Operation

1. Always operate within design and environmental limits.
2. Always operate in a safe and controlled condition.
3. Always ensure safety devices are in place and functioning.
4. Always perform safe work practices and procedures.
5. Always meet or exceed customers' requirements.
6. Always maintain integrity of dedicated systems.
7. Always comply with all applicable rules and regulations.
8. Always address abnormal conditions.
9. Always follow written procedures for high-risk or unusual situations.
10. Always involve the right people in decisions that affect procedures and equipment.

BE CAREFUL

STOP WORK AUTHORITY

AS AN EMPLOYEE OR CONTRACTOR FOR CHEVRON YOU ARE RESPONSIBLE AND AUTHORIZED TO STOP ANY WORK THAT IS NOT SAFE OR DOES NOT COMPLY WITH THE OE TENETS. THERE WILL BE NO REPERCUSSIONS FOR INITIATING STOP WORK AUTHORITY.

ALL PERMITS MUST BE RETAINED IN A UNIQUE LOCATION DESIGNATED FOR PERMITS ONLY.

Name/Company: SAN BUENAVENTURE BLVD Date: 11/29/12

Health and Safety Plan Written Test

Please answer all the following questions.

1) Where can I find the address of the site and why is it relevant to know?
   SOW . HASP
2) If working conditions or behaviors are considered unsafe, what is your responsibility to do?
   STOP WORK
3) What JSAs are available and useful for this project?
   GROUNDWATER SAMPLING
4) Where is the Hazard ID Form located?
   INCIDENT & EMERGENCY
5) Name 3 tools used in the LPS Program.
   ASSESS, ANALYZE, ACT
6) Where are the emergency equipment kept (e.g. fire extinguishers, first aid kits, etc)?
   IN CAR
7) Is this site Chevron owned? What are the operational control/reporting boundaries for this site?
   N/A
8) Have you read the Journey Management Plan?
   YES
9) What section summarizes emergency procedures and presents directions to the nearest hospitals and emergency telephone numbers?
   INCIDENT & EMERGENCY
10) What LPS tool should you use every time before you perform a new activity?
    ASSESS
11) If a near miss occurs, who should you notify...and when?
    PM . ASAP
12) Where is the evacuation assembly point/rally point?
    N/A OWNER OF PROPERTY

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME CHEVRON 35-1393				PROJECT NUMBER 121129-JB1			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI-556	05S.SEA1	11/29/12 0605	pH.7.4.10 Cond. 3900	7.03, 3.96, 9.92 3885	YES YES	8.71 8.06	JB JB
↓	↓	↓	ORP. 252.0 DO. 100%	252.8 97.0%	YES YES	8.26 —	JB JB

Attachment B:
Laboratory Analysis Report

eurofins | Lancaster Laboratories

Analysis Report

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

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

December 14, 2012

Project: 351393

Submittal Date: 12/01/2012
Group Number: 1353039
PO Number: 0015100195
Release Number: INGLIS
State of Sample Origin: WA

Client Sample Description	Lancaster Labs (LLI) #
MW-1 Water	6879091
MW-2 Water	6879092
MW-3A Water	6879093
MW-4 Water	6879094
MW-5 Water	6879095
MW-6 Water	6879096
MW-7 Water	6879097
MW-11 Water	6879098
QA Water	6879099

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

ELECTRONIC COPY TO	Blaine Tech Services	Attn: Alex Stack
ELECTRONIC COPY TO	SAIC	Attn: Don Wyll

Respectfully Submitted,

Jill M. Parker

Jill M. Parker
Senior Specialist

(717) 556-7262

eurofins | Lancaster Laboratories

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

Analysis Report

Sample Description: MW-1 Water
Facility# 351393
666 Griffin Ave - Enuclaw, WA

LLI Sample # WW 6879091
LLI Group # 1353039
Account # 11255

Project Name: 351393

Collected: 11/29/2012 11:18 by JB

Submitted: 12/01/2012 09:40
Reported: 12/14/2012 13:53

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

GAE01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	5	0.5	1
10943	Ethanol	64-17-5	N.D.	50	1
10943	Ethylbenzene	100-41-4	2	0.5	1
10943	Toluene	108-88-3	4	0.5	1
10943	Xylene (Total)	1330-20-7	3	0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	1,900	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	2,600	30	1
12005	DRO C12-C24 w/Si Gel	n.a.	130	30	1
02211	HRO C24-C40 w/Si Gel	n.a.	360	70	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
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	P123451AA	12/10/2012 19:46	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P123451AA	12/10/2012 19:46	Emily R Styer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12339A94A	12/05/2012 20:04	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	12339A94A	12/05/2012 20:04	Catherine J Schwarz	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	123400010A	12/10/2012 12:07	Christine E Dolman	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	123400011A	12/12/2012 17:16	Glorines Suarez-Rivera	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	123400011A	12/05/2012 22:00	Karen L Beyer	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	123400010A	12/05/2012 22:00	Karen L Beyer	1

eurofins | Lancaster Laboratories

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

Analysis Report

Sample Description: MW-2 Water
Facility# 351393
666 Griffin Ave - Enuclaw, WA

LLI Sample # WW 6879092
LLI Group # 1353039
Account # 11255

Project Name: 351393

Collected: 11/29/2012 08:59 by JB

Submitted: 12/01/2012 09:40
Reported: 12/14/2012 13:53

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

GAE02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethanol	64-17-5	N.D.	50	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	540	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	6,000	30	1
12005	DRO C12-C24 w/Si Gel	n.a.	300	30	1
02211	HRO C24-C40 w/Si Gel	n.a.	330	70	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
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	P123451AA	12/10/2012 20:14	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P123451AA	12/10/2012 20:14	Emily R Styer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12339A94A	12/05/2012 20:30	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	12339A94A	12/05/2012 20:30	Catherine J Schwarz	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	123400010A	12/10/2012 12:29	Christine E Dolman	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	123400011A	12/12/2012 17:40	Glorines Suarez-Rivera	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	123400011A	12/05/2012 22:00	Karen L Beyer	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	123400010A	12/05/2012 22:00	Karen L Beyer	1

eurofins | Lancaster Laboratories

Analysis Report

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

Sample Description: MW-3A Water
Facility# 351393
666 Griffin Ave - Enuclaw, WA

LLI Sample # WW 6879093
LLI Group # 1353039
Account # 11255

Project Name: 351393

Collected: 11/29/2012 11:43 by JB

Submitted: 12/01/2012 09:40
Reported: 12/14/2012 13:53

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

GAE03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10943	Benzene	71-43-2	180	5	10
10943	Ethanol	64-17-5	N.D.	500	10
10943	Ethylbenzene	100-41-4	N.D.	5	10
10943	Toluene	108-88-3	N.D.	5	10
10943	Xylene (Total)	1330-20-7	N.D.	5	10
GC Volatiles	**ECY 97-602 NWTPH-Gx**		ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	790	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	1,500	30	1
12005	DRO C12-C24 w/Si Gel	n.a.	60	30	1
02211	HRO C24-C40 w/Si Gel	n.a.	240	71	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	71	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
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	P123451AA	12/10/2012 20:42	Emily R Styer	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P123451AA	12/10/2012 20:42	Emily R Styer	10
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12339A94A	12/05/2012 20:55	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	12339A94A	12/05/2012 20:55	Catherine J Schwarz	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	123400010A	12/10/2012 12:52	Christine E Dolman	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	123400011A	12/12/2012 18:04	Glorines Suarez-Rivera	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	123400011A	12/05/2012 22:00	Karen L Beyer	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	123400010A	12/05/2012 22:00	Karen L Beyer	1

eurofins | Lancaster Laboratories

Analysis Report

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

Sample Description: MW-4 Water
Facility# 351393
666 Griffin Ave - Enuclaw, WA

LLI Sample # WW 6879094
LLI Group # 1353039
Account # 11255

Project Name: 351393

Collected: 11/29/2012 10:41 by JB

Submitted: 12/01/2012 09:40
Reported: 12/14/2012 13:53

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

GAE04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	0.5	0.5	1
10943	Ethanol	64-17-5	N.D.	50	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	1,100	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	1,900	30	1
12005	DRO C12-C24 w/Si Gel	n.a.	270	30	1
02211	HRO C24-C40 w/Si Gel	n.a.	290	70	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
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	P123451AA	12/10/2012 21:09	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P123451AA	12/10/2012 21:09	Emily R Styer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12339A94A	12/05/2012 21:21	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	12339A94A	12/05/2012 21:21	Catherine J Schwarz	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	123400010A	12/10/2012 13:15	Christine E Dolman	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	123400011A	12/12/2012 18:28	Glorines Suarez-Rivera	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	123400011A	12/05/2012 22:00	Karen L Beyer	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	123400010A	12/05/2012 22:00	Karen L Beyer	1

eurofins | Lancaster Laboratories

Analysis Report

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

Sample Description: MW-5 Water
Facility# 351393
666 Griffin Ave - Enuclaw, WA

LLI Sample # WW 6879095
LLI Group # 1353039
Account # 11255

Project Name: 351393

Collected: 11/29/2012 09:34 by JB

Submitted: 12/01/2012 09:40
Reported: 12/14/2012 13:53

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

GAE05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	4	0.5	1
10943	Ethanol	64-17-5	N.D.	50	1
10943	Ethylbenzene	100-41-4	17	0.5	1
10943	Toluene	108-88-3	1	0.5	1
10943	Xylene (Total)	1330-20-7	31	0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	370	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	3,200	30	1
12005	DRO C12-C24 w/Si Gel	n.a.	63	30	1
02211	HRO C24-C40 w/Si Gel	n.a.	490	71	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	71	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
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	P123451AA	12/10/2012 21:37	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P123451AA	12/10/2012 21:37	Emily R Styer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12339A94A	12/05/2012 17:55	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	12339A94A	12/05/2012 17:55	Catherine J Schwarz	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	123400010A	12/10/2012 13:38	Christine E Dolman	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	123400011A	12/12/2012 18:52	Christine E Dolman	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	123400011A	12/05/2012 22:00	Karen L Beyer	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	123400010A	12/05/2012 22:00	Karen L Beyer	1

eurofins | Lancaster Laboratories

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

Analysis Report

Sample Description: MW-6 Water
Facility# 351393
666 Griffin Ave - Enuclaw, WA

LLI Sample # WW 6879096
LLI Group # 1353039
Account # 11255

Project Name: 351393

Collected: 11/29/2012 12:21 by JB

Submitted: 12/01/2012 09:40
Reported: 12/14/2012 13:53

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

GAE06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethanol	64-17-5	N.D.	50	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	500	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	1,100	30	1
12005	DRO C12-C24 w/Si Gel	n.a.	79	30	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	69	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	69	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
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	P123451AA	12/10/2012 22:05	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P123451AA	12/10/2012 22:05	Emily R Styer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12339A94A	12/05/2012 18:21	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	12339A94A	12/05/2012 18:21	Catherine J Schwarz	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	123400010A	12/10/2012 14:01	Christine E Dolman	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	123400011A	12/12/2012 16:04	Glorines Suarez-Rivera	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	123400011A	12/05/2012 22:00	Karen L Beyer	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	123400010A	12/05/2012 22:00	Karen L Beyer	1

eurofins | Lancaster Laboratories

Analysis Report

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

Sample Description: MW-7 Water
Facility# 351393
666 Griffin Ave - Enuclaw, WA

LLI Sample # WW 6879097
LLI Group # 1353039
Account # 11255

Project Name: 351393

Collected: 11/29/2012 10:09 by JB

Submitted: 12/01/2012 09:40
Reported: 12/14/2012 13:53

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

GAE07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethanol	64-17-5	N.D.	50	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	33	30	1
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	30	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	70	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	69	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
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	P123451AA	12/10/2012 22:32	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P123451AA	12/10/2012 22:32	Emily R Styer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12339A94A	12/05/2012 18:47	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	12339A94A	12/05/2012 18:47	Catherine J Schwarz	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	123400010A	12/10/2012 14:24	Christine E Dolman	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	123400011A	12/12/2012 16:28	Glorines Suarez-Rivera	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	123400011A	12/05/2012 22:00	Karen L Beyer	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	123400010A	12/05/2012 22:00	Karen L Beyer	1

eurofins | Lancaster Laboratories

Analysis Report

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

Sample Description: MW-11 Water
Facility# 351393
666 Griffin Ave - Enuclaw, WA

LLI Sample # WW 6879098
LLI Group # 1353039
Account # 11255

Project Name: 351393

Collected: 11/29/2012 07:56 by JB

Submitted: 12/01/2012 09:40
Reported: 12/14/2012 13:53

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

GAE11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethanol	64-17-5	N.D.	50	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	31	1
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	30	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	72	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
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	P123452AA	12/10/2012 13:32	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P123452AA	12/10/2012 13:32	Emily R Styer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12339A94A	12/05/2012 19:13	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	12339A94A	12/05/2012 19:13	Catherine J Schwarz	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	123400010A	12/10/2012 14:46	Christine E Dolman	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	123400011A	12/12/2012 16:52	Glorines Suarez-Rivera	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	123400011A	12/05/2012 22:00	Karen L Beyer	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	123400010A	12/05/2012 22:00	Karen L Beyer	1

eurofins | Lancaster Laboratories

Analysis Report

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

Sample Description: QA Water
Facility# 351393
666 Griffin Ave - Enuclaw, WA

LLI Sample # WW 6879099
LLI Group # 1353039
Account # 11255

Project Name: 351393

Collected: 11/29/2012 07:30

Submitted: 12/01/2012 09:40
Reported: 12/14/2012 13:53

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

GAEQA

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

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	P123472AA	12/12/2012 21:11	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P123472AA	12/12/2012 21:11	Emily R Styer	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	12339A94A	12/05/2012 12:48	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	12339A94A	12/05/2012 12:48	Catherine J Schwarz	1

Quality Control Summary

Client Name: Chevron Group Number: 1353039
Reported: 12/14/12 at 01:53 PM

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

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: P123451AA	Sample number(s): 6879091-6879097							
Benzene	N.D.	0.5	ug/l	93		77-121		
Ethanol	N.D.	50.	ug/l	105		54-149		
Ethylbenzene	N.D.	0.5	ug/l	92		79-120		
Toluene	N.D.	0.5	ug/l	93		79-120		
Xylene (Total)	N.D.	0.5	ug/l	95		77-120		
Batch number: P123452AA	Sample number(s): 6879098							
Benzene	N.D.	0.5	ug/l	87		77-121		
Ethanol	N.D.	50.	ug/l	92		54-149		
Ethylbenzene	N.D.	0.5	ug/l	89		79-120		
Toluene	N.D.	0.5	ug/l	91		79-120		
Xylene (Total)	N.D.	0.5	ug/l	92		77-120		
Batch number: P123472AA	Sample number(s): 6879099							
Benzene	N.D.	0.5	ug/l	88	91	77-121	4	30
Ethanol	N.D.	50.	ug/l	87	94	54-149	8	30
Ethylbenzene	N.D.	0.5	ug/l	89	92	79-120	3	30
Toluene	N.D.	0.5	ug/l	90	95	79-120	6	30
Xylene (Total)	N.D.	0.5	ug/l	92	97	77-120	4	30
Batch number: 12339A94A	Sample number(s): 6879091-6879099							
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	97	97	75-135	0	30
Batch number: 123400010A	Sample number(s): 6879091-6879098							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	60	63	50-120	4	20
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					
Batch number: 123400011A	Sample number(s): 6879091-6879098							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	114	102	50-120	11	20
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: P123451AA	Sample number(s): 6879091-6879097 UNSPK: P882668								
Benzene	92	93	72-134	1	30				

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

Quality Control Summary

Client Name: Chevron Group Number: 1353039
Reported: 12/14/12 at 01:53 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethanol	101	99	53-146	2	30				
Ethylbenzene	92	92	71-134	0	30				
Toluene	93	93	80-125	1	30				
Xylene (Total)	96	96	79-125	0	30				
Batch number: P123452AA	Sample number(s): 6879098 UNSPK: 6879098								
Benzene	91	93	72-134	2	30				
Ethanol	88	91	53-146	4	30				
Ethylbenzene	91	94	71-134	3	30				
Toluene	94	96	80-125	2	30				
Xylene (Total)	94	97	79-125	3	30				

Surrogate Quality Control

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

Analysis Name: UST VOCs by 8260B - Water
Batch number: P123451AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6879091	101	101	98	94
6879092	103	99	99	97
6879093	101	100	99	97
6879094	102	97	99	97
6879095	102	103	99	97
6879096	103	99	98	98
6879097	103	102	98	95
Blank	101	102	99	96
LCS	99	104	99	97
MS	98	101	99	97
MSD	101	104	99	96
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST VOCs by 8260B - Water
Batch number: P123452AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6879098	102	101	98	95
Blank	101	101	98	96
LCS	100	103	99	95
MS	102	103	99	95
MSD	103	103	99	97
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST VOCs by 8260B - Water
Batch number: P123472AA

*- 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: 12/14/12 at 01:53 PM

Group Number: 1353039

Surrogate Quality Control

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6879099	104	100	98	95
Blank	104	104	96	96
LCS	104	103	97	98
LCSD	103	102	98	97
Limits:	80-116	77-113	80-113	78-113

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 12339A94A

	Trifluorotoluene-F
6879091	74
6879092	77
6879093	73
6879094	101
6879095	78
6879096	76
6879097	73
6879098	74
6879099	80
Blank	73
LCS	88
LCSD	87
Limits:	63-135

Analysis Name: NWTPH-Dx water w/ 10g Si Gel
Batch number: 123400010A

	Orthoterphenyl
6879091	70
6879092	67
6879093	74
6879094	74
6879095	70
6879096	65
6879097	78
6879098	69
Blank	69
LCS	83
LCSD	85
Limits:	50-150

Analysis Name: NWTPH-Dx water w/Si Gel
Batch number: 123400011A

	Orthoterphenyl
6879091	100
6879092	122
6879093	104
6879094	113
6879095	108
6879096	104

*- 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: 12/14/12 at 01:53 PM

Group Number: 1353039

Surrogate Quality Control

6879097	124
6879098	89
Blank	124
LCS	145
LCSD	134
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.

acct# ~~11964~~ 11255 Gp#1353039 sample#6879091-99
③ gmp 12/4/12

CHAIN OF CUSTODY FORM

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

Chevron Site Number: 35-1393

Program Designation: CMP

Site Address (street, city, state / county): 666 Griffin Ave, Enumclaw, WA

Chevron PM:

Chevron PM Phone No.:

☐ Retail and Terminal Business Unit (RTBU) Job
☐ Construction/Retail Job

Chevron Consultant: ~~ARCADIS~~ SAIC ③ gmp 12/4/12

Address: 3240 El Camino Real, Irvine, CA

Consultant Contact: ~~Colleen Martin~~ Don Wyll

Consultant Phone No. 503-220-8201

Consultant Project No. 121129-JB1

Sampling Company: Blaine Tech Services

Sampled By (Print): Joe Bustamante

Sampler Signature: [signature]

Charge Code: NWRTB-0351393-O-OML
NWRTB 00SITE NUMBER-0- OML

WBS ELEMENTS:
SITE ASSESSMENT: A1L REMEDIATION IMPLEMENTATION: R5L
SITE MONITORING: OML OPERATION MAINTENANCE & MONITORING: M1L

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

Other Lab

Temp. Blank Check Time	Temp.
0810	3°
0945	3°
1200	3°

Preservation Codes: H = HCL T = Thiosulfate N = HNO_3 B = NaOH S = H_2SO_4 O = Other

Special Instructions: "Run both the 10g silica gel clean up and the quick silica gel clean up methods."

ANALYSES REQUIRED

Field Point Name	Matrix	Top Depth	Date (yymmdd)	Sample Time	# of Containers	Container Type	TPH-DRO w/ SILICA GEL CLEANUP (97-602M) (NWTPH-Dx w/ sgc)	TPH-ORO w/ SILICA GEL CLEANUP (97-602M) (NWTPH-Dx w/ sgc)	TPH-HRO w/ SILICA GEL CLEANUP (97-602M) (NWTPH-Dx w/ sgc)	8260B FULL LIST☐ EDC☐ TBA☐ TAME☐ EDB☐ ETHANOL☒ BTEX☒ MTBE☐	PAH's☐ cPAH's☐ 8270 SIM	TPH-G (NWTPH-Gx)	TOTAL LEAD (6020)	DISSOLVED LEAD (6020)	TPH-D AND TPH-O BY (NWTPH-DX)			Notes/Comments
Preservation							H	H		H		H			H			
MW-1	W	—	121129	1118	8	VOA, AMBER	X	X		X		X			X			
MW-2	↓	—	↓	0859	↓	↓	X	X		X		X			X			
MW-3A		—		1143			X	X		X		X			X			
MW-4		—		1041			X	X		X		X			X			
MW-5		—		0934			X	X		X		X			X			
MW-6		—		1221			X	X		X		X			X			
MW-7		—		1009			X	X		X		X			X			
MW-11		—		0756			X	X		X		X			X			
QA	T	—		0730	3	VOA				X		X						

Relinquished By	Company	Date/Time	Relinquished To	Company	Date/Time
[signature]	BLAINE	11/30/2012 1700	SHIPPED VIA FEDEX		
Relinquished By	Company	Date/Time	Relinquished To	Company	Date/Time
Relinquished By	Company	Date/Time	Relinquished To [signature]	LLI	12/1/12 0940

Turnaround Time: Standard☒ 24 Hours☐ 48 hours☐ 72 Hours☐ Other☐

Sample Integrity: (Check by lab on arrival)
Intact: ✓ On Ice: ✓ Temp: 1.9-3.1 °C COC #

COC Revision Seattle.doc, 12/13/11

eurofins | Lancaster Laboratories

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 limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

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

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	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.