SAIC
From Science to Solutions

February 2, 2011

Mr. Richard Bassett
Washington State Department of Ecology
Central Regional Office
15 West Yakima Avenue, Suite 200
Yakima, Washington 98902

Subject: Request for No Further Action for Former Standard Oil Bulk Facility #1001157, West 15th Avenue and North Water Street, Ellensburg, Washington

Dear Mr. Bassett:

SAIC Energy, Environment & Infrastructure, LLC (hereafter, SAIC), on behalf of Chevron Environmental Management Company (CEMC) is pleased to present you with the details of the most recent groundwater monitoring and sampling, performed for the former Standard Oil Bulk facility located on the northwest corner of West 15th Avenue and North Water Street in Ellensburg, Washington, hereafter referred to as the site. In September, 2010, groundwater monitoring results for monitoring well MW-10, located on the south side of West 15th Avenue, showed four consecutive quarters of analytical results below Model Toxics Control Act (MTCA) cleanup levels for all petroleum constituents (Table 1 and Attachment A). Analytical results for all the remaining monitoring wells have been below MTCA Method A cleanup levels since 2007.

In January 2005, remedial activities were performed at the site and resulted in removal of all petroleum impacted soil from the ground surface to below the water table. A total of 4,850 tons of petroleum impacted soil was removed from the site, as detailed in the 2005 *Remedial Excavation Report*. Prior to initiation of remedial activities and as explained in the 2004 *Cleanup Action Plan*, SAIC and Washington State Department of Ecology (WDOE) determined that excavating impacted soils beneath the public right of way was infeasible based on cost and effectiveness. Any residual soil impacts are 100% capped by asphalt on West 15th Avenue West and do not pose a threat to human health or the environment. A Soil Management Plan has been created to deal with any future contact to residual petroleum impacted soil by city or utility workers working in the area (Attachment B). Groundwater sampling around the site indicates that contaminant leaching to groundwater is not occurring and consequently any residual soil impacts are minimal and most likely significantly attenuated in the last seven years.

With groundwater now meeting MTCA cleanup criteria per the 2004 *Cleanup Action Plan*, Chevron requests a No Further Action determination for the site. Please find

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attached a Voluntary Cleanup Program (VCP) application for this site (Attachment C). If you have any questions or comments please contact Don Wyll at (425) 482-3315 or wylld@saic.com .

Sincerely,

SAIC Energy, Environment, and Infrastructure, LLC

Don Wyll
Senior Project Manager

Enclosures:

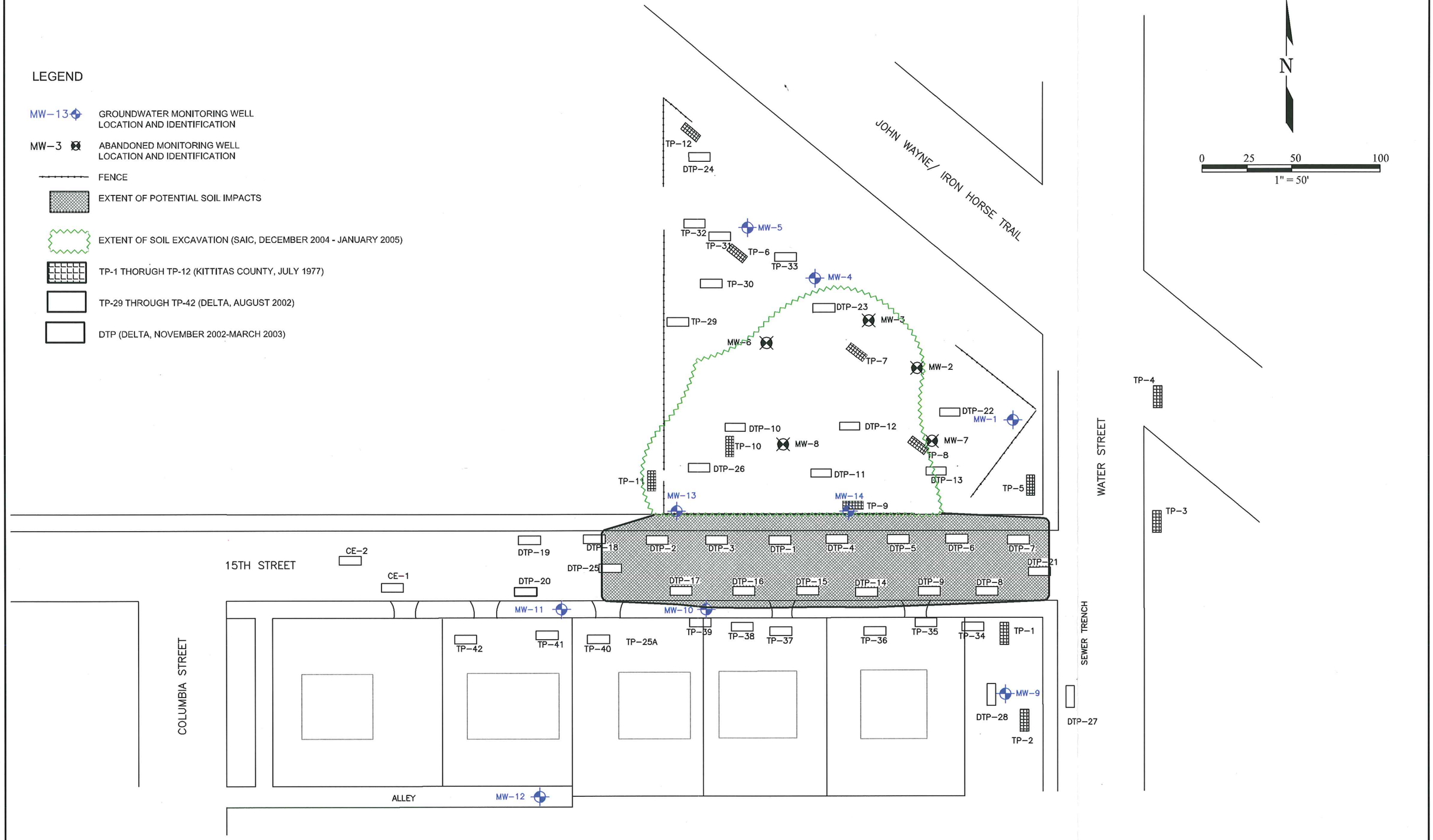
Figure 1- Extent of Potential Soil Impacts
Table 1-Groundwater Monitoring Data and Analytical Results
Attachment A- September 2010 Laboratory Report
Attachment B- Soil Management Plan
Attachment C- Voluntary Cleanup Program (VCP) Application

cc: Mrs. Carol Wondrack, PO Box 2775, Pasco, Washington 99302
Mr. Dan Carrier, CEMC

Figure 1:
Extent of Potential Soil Impacts

LEGEND

- MW–13 — GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION
- MW–3 — ABANDONED MONITORING WELL LOCATION AND IDENTIFICATION
- FENCE
- EXTENT OF POTENTIAL SOIL IMPACTS
- EXTENT OF SOIL EXCAVATION (SAIC, DECEMBER 2004 - JANUARY 2005)
- TP-1 THORUGH TP-12 (KITTITAS COUNTY, JULY 1977)
- TP-29 THROUGH TP-42 (DELTA, AUGUST 2002)
- DTP (DELTA, NOVEMBER 2002-MARCH 2003)



FORMER CHEVRON BULK PLANT
NO. 1001157
WEST 15TH AVENUE & NORTH WATER STREET
ELLENSBURG, WASHINGTON

FIGURE 1
EXTENT OF POTENTIAL SOIL IMPACTS

FILE NAME: 100-1157-ExtSoilContam.dwg
DATE: 02/03/2011

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Table 1:
Groundwater Monitoring Data and Analytical Results

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS
FORMER STANDARD OIL BULK PLANT #1001157
West 15th Avenue and North Water Street
Ellensburg, Washington
Concentrations reported in µg/L

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (ft.)	TPH-DRO	TPH-HRO	TPH-GRO	B	T	E	X	MTBE
MW-10											
05/26/05	--	3.64	--	270[5]	<250[5]	220	<0.5	<0.5	<0.5	<1.5	--
08/17/05	--	4.44	--	370[5]	<250[5]	320	0.7	<0.5	<0.5	<1.5	--
11/01/05	--	4.14	--	210[5]	<99[5]	330	<2.0	<0.5	<0.5	<1.5	--
03/02/06	--	4.08	--	400[5]	<100[5]	1,200	<20	<10	2.6	1.7	--
05/18/06	--	4.19	--	280[5]	<99[5]	590	<10	<0.5	1.1	<1.5	--
08/03/06	--	3.86	--	210[5]	<100[5]	290	<2.0	<0.5	<0.5	<1.5	--
10/27/06	--	4.13	--	520[5]	<100[5]	1,000	3.5	<0.5	0.5	<1.5	--
02/08/07	--	4.09	--	650[5]	<99[5]	980	3.0	0.5	1.3	<1.5	--
05/17/07	--	4.24	--	370[5]	<99[5]	650	<5.0	<0.5	0.8	<1.5	--
08/13/07	--	4.59	--	--[9]	--[9]	950	5.1	<2.0	0.9	1.9	--
11/05/07	--	4.25	--	290[5]	<98[5]	350	1.6	<0.5	<0.5	<1.5	--
03/24/08	--	4.44	--	410[5]	<99[5]	1,000	4.4	<2.0	0.9	<5.0	--
05/16/08	--	4.25	--	610[5]	260[5]	630	3.9	<0.5	<0.5	<1.5	--
08/11/08	--	4.69	--	490[5]	<97[5]	940	5.6	<2.0[10]	0.6	<5.0[10]	--
11/13/08	--	3.88	--	96[5]	<75[5]	85	<0.5	<0.5	<0.5	<1.5	--
03/04/10[7]	--	3.91	--	340[5]	<700[5]	640	2.4	<0.5	<0.5	<1.5	--
06/24/10	--	4.47	--	320[5]	<69[5]	790	2.0	<0.5	<0.5	<1.5	--
09/27/10	--	4.27	--	250[5]	200[5]	360	1.4	<0.5	<0.5	<1.5	--
05/26/05	--	3.61	--	400[5]	<250[5]	190	1.0	<0.5	<0.5	<1.5	--
08/17/05	--	4.38	--	<250[5]	<250[5]	<50	<0.5	<0.5	<0.5	<1.5	--
11/01/05	--	3.96	--	98[5]	<100[5]	<48	<0.5	<0.5	<0.5	<1.5	--
03/02/06	--	3.91	--	160[5]	<98[5]	<48	<0.5	<0.5	<0.5	<1.5	--
05/18/06	--	4.11	--	260[5]	160[5]	<48	<0.5	<0.5	<0.5	<1.5	--
08/03/06	--	3.91	--	90[5]	<100[5]	<48	0.9	<0.5	<0.5	<1.5	--
10/27/06	--	3.98	--	84[5]	150[5]	<48	<0.5	<0.5	<0.5	<1.5	--
02/08/07	--	3.79	--	170[5]	400[5]	<48	<0.5	<0.5	<0.5	<1.5	--

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS
FORMER STANDARD OIL BULK PLANT #1001157
West 15th Avenue and North Water Street
Ellensburg, Washington
Concentrations reported in µg/L

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (ft.)	TPH-DRO	TPH-HRO	TPH-GRO	B	T	E	X	MTBE
MW-11											
05/17/07	--	4.20	--	110[5]	<99[5]	<50	<0.5	<0.5	<0.5	<1.5	--
08/13/07	--	4.48	--	110[5]	<98[5]	50	<0.5	<0.5	<0.5	<1.5	--
11/05/07	--	4.08	--	110[5]	<98[5]	<50	<0.5	<0.5	<0.5	<1.5	--
03/24/08	--	4.27	--	130[5]	<98[5]	<50	<0.5	<0.5	<0.5	<1.5	--
05/16/08	--	4.18	--	160[5]	370[5]	50	<0.5	<0.5	<0.5	<1.5	--
08/11/08	--	4.59	--	80[5]	<98[5]	<50	<0.5	<0.5	<0.5	<1.5	--
11/13/08	--	3.76	--	120[5]	<70[5]	<50	<0.5	<0.5	<0.5	<1.5	--
03/04/10	--	3.82	--	66[5]	310[5]	53	<0.5	<0.5	<0.5	<1.5	
MW-12											
05/26/05	--	UNABLE TO LOCATE - COVERED BY DEBRIS				--	--	--	--	--	--
08/17/05	--	4.98	--	<250[5]	<250[5]	<50	<0.5	<0.5	<0.5	<1.5	--
11/01/05	--	4.66	--	<81[5]	<100[5]	<48	<0.5	<0.5	<0.5	<1.5	--
03/02/06	--	4.43	--	<80[5]	<100[5]	<48	<0.5	<0.5	<0.5	<1.5	--
05/18/06	--	4.79	--	<77[5]	<97[5]	<48	<0.5	<0.5	<0.5	<1.5	--
08/03/06	--	4.96	--	<79[5]	<98[5]	<48	<0.5	<0.5	<0.5	<1.5	--
10/27/06	--	4.68	--	110[5]	250[5]	<48	<0.5	<0.5	<0.5	<1.5	--
02/08/07	--	4.48	--	<81[5]	<100[5]	<48	<0.5	<0.5	<0.5	<1.5	--
05/17/07	--	4.92	--	<79[5]	<99[5]	<50	<0.5	<0.5	<0.5	<1.5	--
08/13/07	--	5.37	--	140[5]	<98[5]	<50	<0.5	<0.5	<0.5	<1.5	--
11/05/07	--	4.75	--	130[5]	<98[5]	<50	<0.5	<0.5	<0.5	<1.5	--
03/24/08	--	4.88	--	<79[5]	<98[5]	<50	<0.5	<0.5	<0.5	<1.5	--
05/16/08	--	4.84	--	<78[5]	<97[5]	<50	<0.5	<0.5	<0.5	<1.5	--
08/11/08	--	5.47	--	<79[5]	<98[5]	<50	<0.5	<0.5	<0.5	<1.5	--
11/13/08	--	4.50	--	50[5]	<75[5]	<50	<0.5	<0.5	<0.5	<1.5	--
03/04/10	--	4.40	--	37[5]	<70[5]	<50	<0.5	<0.5	<0.5	<1.5	--
DISCONTINUED MONITORING/ SAMPLING											

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West 15th Avenue and North Water Street
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WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (ft.)	TPH-DRO	TPH-HRO	TPH-GRO	B	T	E	X	MTBE
MW-13											
05/26/05	98.47	2.68	95.79	380[5]	<250[5]	460	0.5	<0.5	7.7	1.7	--
08/17/05	98.47	4.38	94.09	310[5]	<250[5]	<50	<0.5	<0.5	<0.5	<1.5	--
11/01/05	98.47	3.34	95.13	<86[5]	<110[5]	<48	<0.5	<0.5	<0.5	<1.5	--
03/02/06	98.47	3.19	95.28	<80[5]	<100[5]	<48	<0.5	<0.5	<0.5	<1.5	--
05/18/06	98.47	3.94	94.53	--[9]	--[9]	<48	<0.5	<0.5	<0.5	<1.5	--
08/03/06	98.47	3.05	95.42	79[5]	98[5]	<48	<0.5	<0.5	<0.5	<1.5	--
10/27/06	98.47	3.29	95.18	<79[5]	<99[5]	<48	<0.5	<0.5	<0.5	<1.5	--
02/08/07	98.47	3.14	95.33	<79[5]	<99[5]	<48	<0.5	<0.5	<0.5	<1.5	--
05/17/07	98.47	3.88	94.59	<79[5]	<99[5]	<50	<0.5	<0.5	<0.5	<1.5	--
08/13/07	98.47	3.68	94.79	210[5]	<97[5]	<50	<0.5	<0.5	<0.5	<1.5	--
11/05/07	98.47	3.27	95.20	180[5]	<99[5]	<50	<0.5	<0.5	<0.5	<1.5	--
03/24/08	98.47	3.66	94.81	140[5]	<100[5]	<50	<0.5	<0.5	<0.5	<1.5	--
05/16/08	98.47	3.45	95.02	<78[5]	<97[5]	<50	<0.5	<0.5	<0.5	<1.5	--
08/11/08	98.47	3.77	94.70	280[5]	<98[5]	150	<0.5	<0.5	<0.5	<1.5	--
11/13/08	98.47	2.91	95.56	66[5]	<69[5]	<50	<0.5	<0.5	<0.5	<1.5	--
03/04/10[7]	98.47	2.86	95.61	<30[5]	<69[5]	<50	<0.5	<0.5	<0.5	<1.5	--
DISCONTINUED MONITORING/ SAMPLING											
MW-14											
05/26/05	99.05	1.98	97.07	290[5]	<250[5]	130	<0.5	<0.5	<0.5	<1.5	--
08/17/05	99.05	2.83	96.22	400[5]	<250[5]	340	<0.5	<0.5	<0.5	<1.5	--
11/01/05	99.05	2.86	96.19	260[5]	<100[5]	330	0.6	<0.5	<0.5	<1.5	--
03/02/06	99.05	2.72	96.33	470[5]	<99[5]	1,000	<2.0	<0.5	<0.5	<1.5	--
05/18/06	99.05	2.62	96.43	430[5]	<100[5]	670	<1.0	<0.5	<0.5	<1.5	--
08/03/06	99.05	1.79	97.26	<83[5]	<100[5]	<48	<0.5	<0.5	<0.5	<1.5	--
10/27/06	99.05	2.73	96.32	230[5]	<100[5]	380	<0.5	<0.5	<0.5	<1.5	--
02/08/07	99.05	2.62	96.43	500[5]	<98[5]	580	0.5	<0.5	<0.5	<1.5	--
05/17/07	99.05	2.58	96.47	430[5]	<99[5]	500	<0.5	<0.5	<0.5	<1.5	--
08/13/07	99.05	2.88	96.17	440[5]	<97[5]	390	<0.5	<0.5	<0.5	<5.0	--

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WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (ft.)	TPH-DRO	TPH-HRO	TPH-GRO	B	T	E	X	MTBE
MW-14 (cont)											
11/05/07	99.05	2.89	96.16	550[5]	<100[5]	710	0.5	<0.5	<0.5	<1.5	--
03/24/08	99.05	3.12	95.93	340[5]	<99[5]	540	<0.5	<0.5	<0.5	<5.0	--
05/16/08	99.05	2.92	96.13	370[5]	<97[5]	500	<0.5	<0.5	<0.5	<1.5	--
08/11/08	99.05	3.13	95.92	470[5]	<98[5]	330	<0.5	<0.5	0.5	<5.0[11]	--
11/13/08	99.05	2.60	96.45	510[12]	<68[5]	650	<0.5	<0.5	<0.5	<1.5	--
03/04/10[7]	99.05	2.40	96.65	<30[5]	<69[5]	<50	<0.5	<0.5	<0.5	<1.5	--
06/24/10	99.05	2.93	96.12	290[5]	<68[5]	330	<0.5	<0.5	<0.5	<1.5	--
MW-1											
08/19/98[1]	100.00	5.19	94.81	ND	ND	ND	ND	ND	ND	ND	--
10/27/98	100.00	4.99	95.01	ND	ND	ND	ND	ND	ND	ND	--
01/18/99	100.00	5.05	94.95	ND	ND	ND	ND	ND	ND	ND	--
06/07/99	100.00	5.18	94.82	ND	ND	ND	ND	ND	ND	ND	--
09/05/99	100.00	5.29	94.71	ND	ND	ND	ND	ND	ND	ND	--
11/17/99	100.00	NOT MONITORED/SAMPLED			--	--	--	--	--	--	--
02/25/00	100.00	4.36	95.64	--	--	--	--	--	--	--	--
05/09/00	100.00	4.91	95.09	--	--	--	--	--	--	--	--
08/12/00	100.00	5.49	94.51	--	--	--	--	--	--	--	--
11/10/00	100.00	NOT MONITORED/SAMPLED			--	--	--	--	--	--	--
05/26/05	100.00	3.00	97.00	<250[5]	<250[5]	<50	<0.5	<0.5	<0.5	<1.5	--
08/17/05	100.00	3.44	96.56	<250[5]	<250[5]	<50	<0.5	<0.5	<0.5	<1.5	--
11/01/05	100.00	3.64	96.36	<81[5]	<100[5]	<48	<0.5	<0.5	<0.5	<1.5	--
03/02/06	100.00	3.86	96.14	<80[5]	<100[5]	<48	<0.5	<0.5	<0.5	<1.5	--
05/18/06	100.00	3.33	96.67	<81[5]	<100[5]	<48	<0.5	<0.5	<0.5	<1.5	--
08/03/06	100.00	2.78	97.22	<79[5]	<99[5]	<48	<0.5	<0.5	<0.5	<1.5	--
10/27/06	100.00	3.71	96.29	<82[5]	<100[5]	<48	<0.5	<0.5	<0.5	<1.5	--
02/08/07	100.00	3.64	96.36	<82[5]	200[5]	<48	<0.5	<0.5	<0.5	<1.5	--
05/17/07	100.00	3.47	96.53	<78[5]	<98[5]	<50	<0.5	<0.5	<0.5	<1.5	--
08/13/07	100.00	3.55	96.45	<78[5]	<98[5]	<50	<0.5	<0.5	<0.5	<1.5	--

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FORMER STANDARD OIL BULK PLANT #1001157
West 15th Avenue and North Water Street
Ellensburg, Washington
Concentrations reported in µg/L

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (ft.)	TPH-DRO	TPH-HRO	TPH-GRO	B	T	E	X	MTBE
MW-1 (cont)											
11/05/07	100.00	4.28	95.72	86[5]	<100[5]	<50	<0.5	<0.5	<0.5	<1.5	--
03/24/08	100.00	4.46	95.54	83[5]	<97[5]	<50	<0.5	<0.5	<0.5	<1.5	--
DISCONTINUED MONITORING/ SAMPLING											
MW-4											
08/19/98	100.36	5.16	95.20	260	ND	81.1	ND	ND	ND	ND	--
10/27/98	100.36	4.81	95.55	ND	ND	ND	ND	ND	ND	ND	--
01/18/99	100.36	4.42	95.94	ND	ND	ND	ND	ND	ND	ND	--
06/07/99	100.36	5.09	95.27	ND	ND	ND	ND	ND	ND	ND	--
09/05/99	100.36	5.16	95.20	ND	ND	ND	ND	ND	ND	ND	--
11/17/99	100.36	NOT MONITORED/SAMPLED			--	--	--	--	--	--	--
02/25/00	100.36	3.89	96.47	--	--	--	--	--	--	--	--
05/09/00	100.36	4.75	95.61	--	--	--	--	--	--	--	--
08/12/00	100.36	5.38	94.98	--	--	--	--	--	--	--	--
11/10/00	100.36	NOT MONITORED/SAMPLED			--	--	--	--	--	--	--
05/26/05	100.36	3.55	96.81	<250[5]	<250[5]	<50	<0.5	<0.5	<0.5	<1.5	--
08/17/05	100.36	4.50	95.86	<250[5]	<250[5]	<50	<0.5	<0.5	<0.5	<1.5	--
11/01/05	100.36	4.36	96.00	<80[5]	<100[5]	<48	<0.5	<0.5	<0.5	<1.5	--
03/02/06	100.36	3.84	96.52	<84[5]	<100[5]	<48	<0.5	<0.5	<0.5	<1.5	--
05/18/06	100.36	3.81	96.55	<81[5]	<100[5]	<48	<0.5	<0.5	<0.5	<1.5	--
08/03/06	100.36	3.04	97.32	<82[5]	<100[5]	<48	<0.5	<0.5	<0.5	<1.5	--
10/27/06	100.36	3.82	96.54	<82[5]	<100[5]	<48	<0.5	<0.5	<0.5	<1.5	--
02/08/07	100.36	3.83	96.53	<80[5]	<100[5]	<48	<0.5	<0.5	<0.5	<1.5	--
05/17/07	100.36	3.81	96.55	<79[5]	<99[5]	<50	<0.5	<0.5	<0.5	<1.5	--
08/13/07	100.36	4.08	96.28	<78[5]	<98[5]	<50	<0.5	<0.5	<0.5	<1.5	--
11/05/07	100.36	4.05	96.31	100[5]	<100[5]	<50	<0.5	<0.5	<0.5	<1.5	--
03/24/08	100.36	4.25	96.11	<79[5]	<98[5]	<50	<0.5	<0.5	<0.5	<1.5	--
DISCONTINUED MONITORING/ SAMPLING											

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS
FORMER STANDARD OIL BULK PLANT #1001157
West 15th Avenue and North Water Street
Ellensburg, Washington
Concentrations reported in µg/L

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (ft.)	TPH-DRO	TPH-HRO	TPH-GRO	B	T	E	X	MTBE
MW-5											
08/19/98[1]	100.70	5.52	95.18	ND	ND	82.3	ND	ND	ND	ND	--
10/27/98	100.70	5.12	95.58	ND	ND	ND	ND	ND	ND	ND	--
01/18/99	100.70	4.72	95.98	ND	ND	ND	ND	ND	ND	ND	--
06/07/99	100.70	5.44	95.26	ND	ND	ND	ND	ND	ND	ND	--
09/05/99	100.70	5.52	95.18	ND	ND	ND	ND	ND	ND	ND	--
11/17/99	100.70	5.01	95.69	--	--	--	--	--	--	--	--
02/25/00	100.70	4.19	96.51	--	--	--	--	--	--	--	--
05/09/00	100.70	5.11	95.59	--	--	--	--	--	--	--	--
08/12/00	100.70	5.74	94.96	--	--	--	--	--	--	--	--
11/10/00	100.70	5.21	95.49	--	--	--	--	--	--	--	--
02/02/01	100.70	5.12	95.58	--	--	--	--	--	--	--	--
05/26/05	100.70	UNABLE TO LOCATE - COVERED BY GRAVEL				--	--	--	--	--	--
08/17/05	100.70	UNABLE TO LOCATE - COVERED BY GRAVEL				--	--	--	--	--	--
11/01/05	100.70	UNABLE TO LOCATE - COVERED BY DIRT				--	--	--	--	--	--
03/02/06	100.70	4.21	96.49	<80[5]	<100[5]	<48	<0.5	<0.5	<0.5	<1.5	--
05/18/06	100.70	4.25	96.45	<81[5]	<100[5]	<48	<0.5	<0.5	<0.5	<1.5	--
08/03/06	100.70	3.52	97.18	<79[5]	<99[5]	<48	<0.5	<0.5	<0.5	<1.5	--
10/27/06	100.70	4.22	96.48	<80[5]	<100[5]	<48	<0.5	<0.5	<0.5	<1.5	--
02/08/07	100.70	4.18	96.52	<79[5]	<99[5]	<48	<0.5	<0.5	<0.5	<1.5	--
05/17/07	100.70	4.24	96.46	<79[5]	<98[5]	<50	<0.5	<0.5	<0.5	<1.5	--
08/13/07	100.70	4.53	96.17	<78[5]	<98[5]	<50	<0.5	<0.5	<0.5	<1.5	--
11/05/07	100.70	4.44	96.26	<80[5]	<100[5]	<50	<0.5	<0.5	<0.5	<1.5	--
03/24/08	100.70	4.62	96.08	<79[5]	<98[5]	<50	<0.5	<0.5	<0.5	<1.5	--
DISCONTINUED MONITORING/ SAMPLING											
MW-2											
08/19/98	99.59	4.55	95.04	ND	ND	143	ND	ND	ND	ND	--
10/27/98	99.59	4.36	95.23	ND	ND	ND	ND	ND	ND	ND	--
01/18/99	99.59	3.95	95.64	ND	ND	ND	1.44	ND	ND	ND	--
06/07/99[2]	99.59	4.57	95.02	ND	ND	ND	ND	ND	ND	ND	--
09/05/99	99.59	4.66	94.93	ND	ND	ND	ND	ND	ND	ND	--
11/17/99	99.59	NOT MONITORED/SAMPLED			--	--	--	--	--	--	--
02/25/00[2]	99.59	3.60	95.99	--	--	--	--	--	--	--	--

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS
FORMER STANDARD OIL BULK PLANT #1001157
West 15th Avenue and North Water Street
Ellensburg, Washington
Concentrations reported in µg/L

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (ft.)	TPH-DRO	TPH-HRO	TPH-GRO	B	T	E	X	MTBE
MW-2 (cont)											
05/09/00[7]	99.59	4.25	95.34	--	--	--	--	--	--	--	--
08/12/00	99.59	4.84	94.75	--	--	--	--	--	--	--	--
11/10/00	99.59	NOT MONITORED/SAMPLED			--	--	--	--	--	--	--
ABANDONED											
MW-3											
08/19/98	99.94	4.67	95.27	468	ND	ND	ND	ND	ND	ND	--
10/27/98	99.94	4.43	95.51	ND	ND	ND	ND	ND	ND	ND	--
01/18/99	99.94	4.00	95.94	ND	ND	ND	ND	ND	ND	ND	--
06/07/99	99.94	4.67	95.27	273	ND	ND	ND	ND	ND	ND	--
09/05/99	99.94	4.72	95.22	ND	ND	ND	ND	ND	ND	ND	--
11/17/99	99.94	4.27	95.67	--	--	--	--	--	--	--	--
02/25/00	99.94	3.60	96.34	--	--	--	--	--	--	--	--
05/09/00	99.94	4.34	95.60	--	--	--	--	--	--	--	--
08/12/00	99.94	4.94	95.00	--	--	--	--	--	--	--	--
11/10/00	99.94	4.51	95.43	--	--	--	--	--	--	--	--
02/02/01	99.94	4.61	95.33	--	--	--	--	--	--	--	--
ABANDONED											
MW-6											
08/19/98	100.17	5.11	95.06	346	ND	98.5	ND	ND	ND	ND	--
10/27/98	100.17	4.73	95.44	ND	ND	ND	0.533	ND	ND	ND	--
01/18/99	100.17	4.33	95.84	406	ND	89.2	0.690	ND	ND	ND	--
06/07/99	100.17	5.08	95.09	ND	ND	ND	ND	ND	ND	1.11	--
09/05/99	100.17	5.12	95.05	ND	ND	ND	ND	ND	ND	ND	--
11/17/99	100.17	NOT MONITORED/SAMPLED			--	--	--	--	--	--	--
02/25/00	100.17	3.75	96.42	--	--	--	--	--	--	--	--
05/09/00	100.17	4.71	95.46	--	--	--	--	--	--	--	--
08/12/00	100.17	5.35	94.82	--	--	--	--	--	--	--	--
11/10/00	100.17	NOT MONITORED/SAMPLED			--	--	--	--	--	--	--
ABANDONED											
MW-7											
08/19/98[1]	100.25	5.43	94.82	280	ND	112	3.71	ND	ND	ND	--
10/27/98	100.25	5.20	95.05	ND	ND	99.8	10.1	ND	ND	ND	--
01/18/99	100.25	4.94	95.31	274	ND	146	14.8	ND	1.60	ND	

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS
FORMER STANDARD OIL BULK PLANT #1001157
West 15th Avenue and North Water Street
Ellensburg, Washington
Concentrations reported in µg/L

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (ft.)	TPH-DRO	TPH-HRO	TPH-GRO	B	T	E	X	MTBE
MW-7 (cont)											
06/07/99[2]	100.25	5.43	94.82	373	ND	97.9	4.42	ND	ND	ND	--
09/05/99	100.25	5.54	94.71	--[3]	--[3]	ND	ND	ND	ND	ND	--
11/17/99[4]	100.25	4.99	95.26	ND[5]	ND[5]	ND	ND	ND	ND	ND	ND
02/25/00	100.25	4.32	95.93	ND[5]	ND[5]	280	41.7	ND[6]	6.94	4.35	ND
05/09/00[7]	100.25	5.06	95.19	ND[5]	ND[5]	83.7	3.58	ND	ND[6]	ND[6]	--
08/12/00	100.25	5.74	94.51	ND[5]	ND[5]	ND	0.543	ND	ND	ND	--
11/10/00	100.25	5.34	94.91	ND[5]	ND[5]	100	2.61	ND	0.513	ND	--
02/02/01	100.25	5.45	94.80	ND[5]	ND[5]	ND	ND	ND	ND	ND	--
06/28/01[8]	100.25	--	--	<250	<500	<50.0	<0.500	<0.500	<0.500	<1.00	--
ABANDONED											
MW-8											
08/19/98[1]	99.43	4.54	94.89	ND	ND	94.5	ND	ND	ND	ND	--
10/27/98	99.43	4.18	95.25	ND	ND	ND	ND	ND	ND	ND	--
01/18/99	99.43	3.82	95.61	ND	ND	ND	1.74	ND	ND	ND	--
06/07/99[2]	99.43	4.48	94.95	ND	ND	ND	3.52	ND	0.523	ND	--
09/05/99	99.43	4.57	94.86	ND	ND	ND	0.518	ND	ND	ND	--
11/17/99[4]	99.43	4.05	95.38	--	--	--	--	--	--	--	--
02/25/00	99.43	3.20	96.23	--	--	--	--	--	--	--	--
05/09/00[7]	99.43	4.14	95.29	--	--	--	--	--	--	--	--
08/12/00	99.43	4.79	94.64	--	--	--	--	--	--	--	--
11/10/00	99.43	4.31	95.12	--	--	--	--	--	--	--	--
02/02/01	99.43	4.38	95.05	--	--	--	--	--	--	--	--
ABANDONED											
MW-9											
05/26/05	--	3.19	--	<250[5]	<250[5]	<50	<0.5	<0.5	<0.5	<1.5	--
08/17/05	--	3.79	--	<250[5]	<250[5]	<50	<0.5	<0.5	<0.5	<1.5	--
11/01/05	--	3.91	--	<79[5]	<98[5]	<48	<0.5	<0.5	<0.5	<1.5	--
03/02/06	--	3.91	--	<79[5]	<99[5]	<48	<0.5	<0.5	<0.5	<1.5	--
05/18/06	--	3.73	--	<78[5]	<98[5]	<48	<0.5	<0.5	<0.5	<1.5	--
08/03/06	--	3.06	--	<83[5]	<100[5]	<48	<0.5	<0.5	<0.5	<1.5	--
10/27/06	--	UNABLE TO LOCATE		--	--	--	--	--	--	--	--
ABANDONED											

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS
FORMER STANDARD OIL BULK PLANT #1001157
West 15th Avenue and North Water Street
Ellensburg, Washington
Concentrations reported in µg/L

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (ft.)	TPH-DRO	TPH-HRO	TPH-GRO	B	T	E	X	MTBE
TRIP BLANK											
10/27/98	--	--	--	--	--	ND	ND	ND	ND	ND	--
01/18/99	--	--	--	--	--	ND	ND	ND	ND	ND	--
06/07/99	--	--	--	--	--	ND	ND	ND	ND	ND	--
09/05/99	--	--	--	--	--	ND	ND	ND	ND	ND	--
11/17/99	--	--	--	--	--	ND	ND	ND	ND	ND	ND
02/25/00	--	--	--	--	--	ND	ND	ND	ND	ND	ND
05/07/00	--	--	--	--	--	ND	ND	ND	ND	ND	--
08/12/00	--	--	--	--	--	ND	ND	ND	ND	ND	--
11/10/00	--	--	--	--	--	ND	ND	ND	ND	ND	--
02/02/01	--	--	--	--	--	ND	ND	ND	ND	ND	--
QA											
05/26/05	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
08/17/05	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
11/01/05	--	--	--	--	--	<48	<0.5	<0.5	<0.5	<1.5	--
03/02/06	--	--	--	--	--	<48	<0.5	<0.5	<0.5	<1.5	--
05/18/06	--	--	--	--	--	<48	<0.5	<0.5	<0.5	<1.5	--
08/03/06	--	--	--	--	--	<48	<0.5	<0.5	<0.5	<1.5	--
10/27/06	--	--	--	--	--	<48	<0.5	<0.5	<0.5	<1.5	--
02/08/07	--	--	--	--	--	<48	<0.5	<0.5	<0.5	<1.5	--
05/17/07	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
08/13/07	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
11/05/07	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
03/24/08	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
05/16/08	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
08/11/08	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
11/13/08	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
03/04/10	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
06/24/10	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
09/27/10	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
				TPH-DRO	**TPH-HRO**	**TPH-GRO**	**B**	**T**	**E**	**X**	**MTBE**
Standard Method Detection Limit:				**250**	**250**	**50**	**0.5**	**0.5**	**0.5**	**1.5**	**--**
MTCA Method A Cleanup Level:				**500**	**500**	**800/1,000**	**5**	**1,000**	**700**	**1,000**	**20**
Current Method:				**NWTPH-Dx + Extended**		**NWTPH-Gx and EPA 8021B**					

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS
FORMER STANDARD OIL BULK PLANT #1001157
West 15th Avenue and North Water Street
Ellensburg, Washington
Concentrations reported in µg/L

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (ft.)	TPH-DRO	TPH-HRO	TPH-GRO	B	T	E	X	MTBE

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to October 27, 1998, were compiled from reports prepared by Terra Vac.

DTW = Depth to Water
(ft.) = Feet
GWE = Groundwater Elevation
TPH = Total Petroleum Hydrocarbons
DRO = Diesel Range Organics
HRO = Heavy Range Organics
GRO = Gasoline Range Organics
B = Benzene
T = Toluene
E = Ethylbenzene
X = Total Xylenes
MTBE = Methyl Tertiary Butyl Ether
µg/L = Micrograms per liter
-- = Not Measured/Not Analyzed
QA = Quality Assurance/Trip Blank
MTCA = Model Toxics Control Act Cleanup Regulations
[WAC 173-340-720(2)(a)(I), as amended 02/01]

* TOC elevations have been surveyed based on a September 1998, Terra Vac survey from a Benchmark of 100.00 feet elevation taken at MW-1.

1 Dissolved lead was ND (Method Detection Limit at 1.0 ppb).
2 ORC installed in well.
3 Due to an extraction anomaly by the lab this sample was lost and was not available for analysis.
4 ORC in well.
5 TPH-DRO and TPH-HRO analysis with silica-gel cleanup.
6 Detection limit raised. Refer to analytical reports.
7 Removed ORC from well.
8 Data provided by Delta Environmental Group, Inc.
9 The vials for analysis was broken upon arrival at the laboratory.
10 Laboratory report indicates due to the presence of interferents near their retention time, normal reporting limits were not attained for toluene and total xylenes. The presence or concentration of these compounds cannot be determined below the reporting limits due to the presence of these interferents.
11 Laboratory report indicates due to the presence of interferents near their retention time, normal reporting limits were not attained for total xylenes. The presence or concentration of these compounds cannot be determined below the reporting limits due to the presence of these interferents.
12 Review of chromatogram by Lancaster Laboraties' chemist suggests the Dx chromatogram for MW-14 is indicative of weathered/degraded gasoline and not diesel. The BTEX profile also supports degraded gasoline as the main component.

Attachment A:
September 2010 Laboratory Report

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

October 25, 2010

Project: 1001157

Submittal Date: 10/01/2010
Group Number: 1214393
PO Number: 0015060861
Release Number: CARRIER
State of Sample Origin: WA

Client Sample Description	Lancaster Labs (LLI) #
QA Water Sample	6100754
MW-10 Grab Water Sample	6100755

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

ELECTRONIC COPY TO	SAIC c/o Gettler-Ryan	Attn: Rachelle Munoz
ELECTRONIC COPY TO	SAIC	Attn: Mike Lange
ELECTRONIC COPY TO	SAIC	Attn: Don Wyll

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Analysis Report

Questions? Contact your Client Services Representative
Jill M Parker at (717) 656-2300 Ext. 1241

Respectfully Submitted,

Martha L. Seidel

Martha L. Seidel
Senior Chemist

Lancaster Laboratories

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Analysis Report

Sample Description: QA Water Sample
Facility# 1001157 Job# 386612
15th Ave & Water St - Ellensburg, WA

LLI Sample # WW 6100754
LLI Group # 1214393
Account # 11260

Project Name: 1001157

Collected: 09/27/2010

Submitted: 10/01/2010 09:15
Reported: 10/25/2010 09:26
Discard: 11/25/2010

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Volatiles	**ECY 97-602 NWTPH-Gx**		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Volatiles	**SW-846 8021B**		ug/l	ug/l	
05879	Benzene	71-43-2	N.D.	0.5	1
05879	Ethylbenzene	100-41-4	N.D.	0.5	1
05879	Toluene	108-88-3	N.D.	0.5	1
05879	Total Xylenes	1330-20-7	N.D.	1.5	1

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	10277B94A	10/05/2010 16:55	Marie D John	1
05879	BTEX Water	SW-846 8021B	1	10277B94A	10/05/2010 16:55	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10277B94A	10/05/2010 16:55	Marie D John	1

Lancaster Laboratories

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Analysis Report

Sample Description: MW-10 Grab Water Sample
Facility# 1001157 Job# 386612
15th Ave & Water St - Ellensburg, WA

LLI Sample # WW 6100755
LLI Group # 1214393
Account # 11260

Project Name: 1001157

Collected: 09/27/2010 15:00 by ML

Submitted: 10/01/2010 09:15
Reported: 10/25/2010 09:26
Discard: 11/25/2010

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

15E10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Volatiles	**ECY 97-602 NWTPH-Gx**		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	360	50	1
GC Volatiles	**SW-846 8021B**		ug/l	ug/l	
05879	Benzene	71-43-2	1.4	0.5	1
05879	Ethylbenzene	100-41-4	N.D.	0.5	1
05879	Toluene	108-88-3	N.D.	0.5	1
05879	Total Xylenes	1330-20-7	N.D.	1.5	1
GC Extractable TPH w/Si Gel	**ECY 97-602 NWTPH-Dx modified**		ug/l	ug/l	
02211	DRO C12-C24 w/Si Gel	n.a.	250	29	1
02211	HRO C24-C40 w/Si Gel	n.a.	200	68	1

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	10277B94A	10/05/2010 18:40	Marie D John	1
05879	BTEX Water	SW-846 8021B	1	10277B94A	10/05/2010 18:40	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10277B94A	10/05/2010 18:40	Marie D John	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	102820010A	10/11/2010 19:15	Glorines Suarez-Rivera	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	2	102820010A	10/11/2010 08:40	Karen R Rettew	1

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Analysis Report

Quality Control Summary

Client Name: Chevron
Group Number: 1214393
Reported: 10/25/10 at 09:26 AM

Matrix QC may not be reported if 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.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10277B94A	Sample number(s): 6100754-6100755							
Benzene	N.D.	0.5	ug/l	90	95	80-120	5	30
Ethylbenzene	N.D.	0.5	ug/l	90	95	80-120	5	30
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	100	109	75-135	9	30
Toluene	N.D.	0.5	ug/l	90	90	80-120	0	30
Total Xylenes	N.D.	1.5	ug/l	92	93	80-120	2	30
Batch number: 102820010A	Sample number(s): 6100755							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	73	83	50-100	13	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: 10277B94A	Sample number(s): 6100754-6100755 UNSPK: 6100755, P100756								
Benzene	83		80-152						
Ethylbenzene	95		80-133						
NWTPH-Gx water C7-C12	94		57-157						
Toluene	95		80-133						
Total Xylenes	95		80-148						

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: BTEX Water
Batch number: 10277B94A

	Trifluorotoluene-P	Trifluorotoluene-F
6100754	86	87
6100755	86	89
Blank	86	87
LCS	86	90
LCSD	86	91
MS	86	92

*- 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: 1214393
Reported: 10/25/10 at 09:26 AM

Surrogate Quality Control

Limits:	58-146	63-135

Analysis Name: NWTPH-Dx water w/Si Gel
Batch number: 102820010A

	Orthoterphenyl
6100755	119
Blank	97
LCS	95
LCSD	107
Limits:	50-150

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

Chevron Northwest Region Analysis Request/Chain of Custody

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Where quality is a science.

AMENDED

For Lancaster Laboratories use only
Acct. #: 11260 Sample #: 6100754-56 SCR#:

Grp #1214393

Facility #: SS#1001157-OML G-R#386612
Site Address: 15th Avenue & Water Street, ELLENSBURG, WA
Chevron PM: DC Lead Consultant: SAICDW Wyll
Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568
Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)
Consultant Phone #: 925-551-7555 Fax #: 925-551-7899
Sampler: Mike Lombard
Service Order #: ☐ Non SAR:

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water	Matrix: Oil ☐ Air ☐	Total Number of Containers	Analyses Requested / Preservation Codes: BTEX ☒ 8021 ☐ 8260 ☐ Naphth	8260 full scan	Oxygenates ___	TPH G ☒	TPH D ☒ Extended Rng. ☐ Silica Gel Cleanup	Lead Total ☐ Diss. ☐ Method ___	VPH/EPH	NWTPH H HCID ☐ quantification
QA	9-27-10		X			X		2	X			X				
MW-10	↓	1500	X			X		5	X			X	X			
MW-14	↓	1555	X			X		5	X			X	X			

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

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

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

Comments / Remarks

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

MW-14 placed on hold (do not analyze) per Mike Lange jmp 10/4/10

Turnaround Time Requested (TAT) (please circle)
STD. TAT 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required) EDF/EDD
QC Summary Type I - Full
Type VI (Raw Data) Disk / EDD
WIP (RWQCB) Standard Format
Disk ____ Other.

Relinquished by:	Date	Time	Received by:	Date	Time
	9-30-10	1700			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by Commercial Carrier: UPS FedEx Other			Received by:	Date 10/1/10	Time 0915
Temperature Upon Receipt 1.8-3.2°C			Custody Seals Intact? Yes No		

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)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< 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.

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Attachment B:
Soil Management Plan

SOIL MANAGEMENT PLAN

FORMER STANDARD OIL BULK PLANT #1001157
WEST 15TH AVENUE AND NORTH WATER STREET
ELLENSBURG, WASHINGTON

February 3, 2011

Prepared for:
City of Ellensburg
501 Anderson Street
Ellensburg, Washington 98926

On Behalf of:
Chevron Environmental Management Company
145 S. State College Boulevard
Brea, CA 92821

Prepared by:
Science Applications International Corporation
18912 North Creek Parkway, Suite 101
Bothell, WA 98011

SAIC
From Science to Solutions

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LIST OF FIGURES

SOIL MANAGEMENT PLAN

1.0 INTRODUCTION

This Soil Management Plan has been prepared by SAIC Energy, Environment, and Infrastructure, LLC (hereafter SAIC) on behalf of Chevron Environmental Management Company (CEMC). The plan specifically addresses residual soils containing petroleum hydrocarbons that remain beneath the public right-of-way adjacent to former Chevron Bulk Plant 1001157 located at the northeast corner of West 15th and North Water Streets, in Ellensburg, Washington (Figure 1). The property is bound by a State Park to the north and by residential housing to the south. This soil management plan has been prepared at the request of the Washington State Department of Ecology (WDOE) as a component of the long-term contingency planning required for the site following completion of a remedial excavation in January 2005.

2.0 BACKGROUND

2.1 SITE HISTORY

The property operated as a bulk fuel transfer facility from the 1920s through the 1980s. The site was purchased from Chevron by ARH Distributors in 1980. In 1986, ARH Distributors went bankrupt and sold the property to Wondrack Distributing who ceased operations shortly after purchasing the facility. All underground piping, tanks, and associated buildings were removed in 1997, with the exception of a corrugated metal garage which was removed during excavation activities in January 2005. The property is currently owned by Wondrak Distributing, Inc. (Carol Wondrak). A site map is presented as Figure 1.

In June 2002, Ecology issued Agreed Order #DE 02TCPCR-3982 to Chevron requiring the planning and implementation of a remedial investigation/feasibility study (RI/FS) at the site. Delta Environmental Consultants (Delta) started a Remedial Investigation of the site in August 2002. Test pits DTP-1 through DTP-28 were installed in order to delineate the extent of petroleum impacts on the property and beneath West 15th Avenue. Supplemental sampling events were conducted by Delta in November 2002 and completed in March 2003 (*Final Remedial Investigation/Feasibility Study Report, Former Chevron Bulk Plant No. 100-1157,* Prepared for ChevronTexaco by SAIC, June 1, 2004). Test pits TP-29 through TP-42 were installed on residential properties south of 15th Avenue to further delineate the extent of potential petroleum impacts (Figure 1). Test pits were completed in March 2003 with SAIC onsite to observe.

In accordance with the 2004 *Cleanup Action Plan*, SAIC completed a soil remedial excavation cleanup at the site and a portion of the eastern adjacent State Park property in late December 2004 and early January 2005. Approximately 4,800 tons of petroleum-impacted soil was removed from the site. All impacted soil beneath the property was removed from surface to a minimum of one foot below the water table, approximately 6 to 8 feet in depth. Petroleum-impacted soil remains in-place beneath the sidewalk and West 15th Avenue. Figure 1 shows the approximate extent of petroleum impacts to soil remaining in the City right-of-way based on test pit results.

Following the site remedial efforts, two additional groundwater monitoring wells (MW-13 and MW-14) were installed in March 2005 along the southern property boundary of the site (Figure 1). On- and off-property monitoring wells have been sampled quarterly since May 2005.

Groundwater analytical results show contaminant concentrations below MTCA Method A cleanup levels in all wells.

3.0 HYDROGEOLOGY/GEOLOGY

Shallow groundwater beneath the site typically occurs from approximately 3-6 feet below ground surface (bgs) with seasonal fluctuations of 0.5 to 1.0 foot. The groundwater is at its lowest levels in the winter. Groundwater flow directions vary from southeast to southwest and are influenced by seasonal variation. The hydraulic gradients across the site are low, ranging from 0.005 to 0.006 ft/ft.

Subsurface soils typically consist of very dense clayey gravel and sand with coarse gravel and occasional cobbles to 15 feet below ground surface (bgs). The subsurface material is brown and dark green in color and dense to very dense in compaction. A layer of rounded gravel and river rock was observed at 4.5 to 6.5 feet bgs in the south and southeast portions of the site.

A more detailed presentation of hydrogeologic and geologic information can be found in the RI/FS (SAIC, 2004).

4.0 EXTENT OF PETROLEUM HYDROCARBON IMPACT

The estimated extent of subsurface impacts off-property beneath West 15th Avenue is approximately 250 feet long (east-west direction) by 50 feet wide (approximate width of 15th Avenue) (Figure 1). The highest petroleum impacts were encountered between 4 and 6 feet below ground surface, at depths typical of buried utilities. Off-property impacted soil beneath West 15th Avenue has been detected between approximately between 2 and 10 feet bgs.

5.0 PURPOSE OF SOIL MANAGEMENT PLAN

The purpose of this soil management plan is to develop long-term management procedures that will be adequate to protect human health and the environment with respect to residual petroleum impacted soil remaining beneath West 15th Avenue where the impacted soil cannot be reasonably removed due to presence of underground utilities. This soil management plan presents specific actions and protocols for managing impacted soil and groundwater that may be encountered beneath West 15th Avenue.

6.0 EXPOSURE ASSESSMENT

6.1 HEALTH AND SAFETY

Personnel that work with the petroleum impacted soil must be trained in the hazards specific to these substances and in the appropriate protective measures. The contractor/utility worker will be entirely responsible for identifying and complying with all health and safety requirements in federal, state, and local regulations. The contractors/utility workers will be responsible for writing, implementing, and enforcing an appropriate health and safety plan that is in compliance with all federal, state and local regulations when excavating and handling impacted soil.

6.2 CHEMICALS OF CONCERN

Chemicals of concern in soil and potentially groundwater beneath West 15th Avenue and North Water Street include gasoline-, diesel-, and heavy oil-range hydrocarbons, and BTEX. These

compounds were present at the site at concentrations greater than the MTCA Method A cleanup levels for soil, based on soil cleanup levels summarized in Table 720-1, WAC 173-340-900.

6.3 EXPOSURE PATHWAYS

There is potential for humans to be exposed to petroleum impacted soil, groundwater or vapor during invasive work activities.

Subsurface soil: Activities that involve soil excavation beneath West 15th Avenue may lead to petroleum hydrocarbon exposure to humans through inhalation, ingestion, and dermal contact. The individuals most likely to be affected by this exposure pathway are utility workers.

Groundwater: There is potential for individuals to come into contact with petroleum impacted groundwater during excavations or subsurface exploration beneath West 15th Avenue. The most likely group to be affected by this exposure pathway beneath the street is utility workers. Although impacts to groundwater are minimal, this pathway has been left open to ensure long-term protection for individuals that may come in contact with groundwater through invasive work actions.

Vapors: There is potential for humans to come into contact with vapors that volatilize from soil and groundwater during excavation or subsurface explorations in the soil management area. Vapors can pose a threat to human health and the environment when they are present at concentrations in confined spaces that exceed NIOSH (National Institute for Occupational Safety and Health) and/or OSHA (Occupational Safety and Health Administration) permissible exposure limits, or at high enough concentrations to create conditions that may lead to explosions. The most likely population to be affected by this exposure pathway within the soil management area is utility workers.

Prior to and during any invasive work activities within the soil management area beneath West 15th Avenue, steps will be taken to notify all responsible parties, minimize the risk to workers and the public and properly handle, and treat and/or dispose of any impacted soil or groundwater generated. The steps necessary to accomplish these goals are presented in the following sections of this soil management plan.

7.0 SOIL MANAGEMENT PLAN

7.1 RISK MANAGEMENT MEASURES PRIOR TO INVASIVE WORK

Exposure to residual petroleum hydrocarbons beneath West 15th Avenue is most likely to occur during excavation, grading or drilling activities, particularly at depths between 2 and 6 feet bgs. Coordinating response actions in advance of street work will help minimize construction delays. The contractors/utility workers performing the subsurface activity must be notified of the environmental conditions and contents of this soil management plan prior to site activities.

7.1.1 Notification Requirements

The contractor/utility worker will notify the City of Ellensburg prior to the start of ground disturbing activities at the site. An environmental consultant representing CEMC will be on site to observe any ground disturbing activities and to monitor soil and groundwater conditions during site work.

For grading, excavation, drilling/test pitting or any subsurface site activities, the contractor/utility worker will provide the following information:

- Start date and time
- Anticipated duration of subsurface activities
- Nature of subsurface activities
- Location, size, and depth of excavation/borehole

The information provided by the contractor/utility worker will be forwarded on to CEMC, Washington State Department of Ecology and any permitting agency. Point of contact names and addresses are listed in Section 8.

8.0 PROJECT CONTACTS

Chevron Environmental Management Company
Dan Carrier
145 S. State College Blvd. Room 4086
Brea, CA 92821
Phone: (714) 671-3371
E-mail: DCarrier@chevron.com

City of Ellensburg
John Akers
Public Works
501 Anderson Street
Ellensburg, Washington 98926
(509) 962-7230
E-mail: pubworks@ci.ellensburg.wa.us

Washington State Department of Ecology, Central Regional Office
Attn: Richard Bassett
15 West Yakima Ave., Ste 200
Yakima, Washington 98902
Phone: (509) 454-7839
E-mail: rbas461@ecy.wa.gov

9.0 REFERENCES

Cleanup Action Plan, Former Chevron Bulk Plant #100-1157, 15th and Water Streets, Ellensburg, Washington. Prepared for ChevronTexaco by SAIC, December 8, 2004.

Analytical Results for Samples Collected at the Sewer Line Installation Site, Ellensburg, WA. Prepared for the City of Ellensburg by SAGE Earth Science Inc., November 27, 1995.

Final Remedial Investigation/Feasibility Study Report, Former Chevron Bulk Plant No. 100-1157, 15th and Water Streets, Ellensburg, WA. Prepared for ChevronTexaco by SAIC, June 8, 2004.

Final Remedial Excavation Report, ChevronTexaco Facility No. 100-1157, West 15th Ave and North Water Street, Ellensburg, Washington 98926. Prepared for ChevronTexaco by SAIC, February 15, 2005.

Figure

LEGEND

MW–13 GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION

MW–3 ABANDONED MONITORING WELL LOCATION AND IDENTIFICATION

FENCE

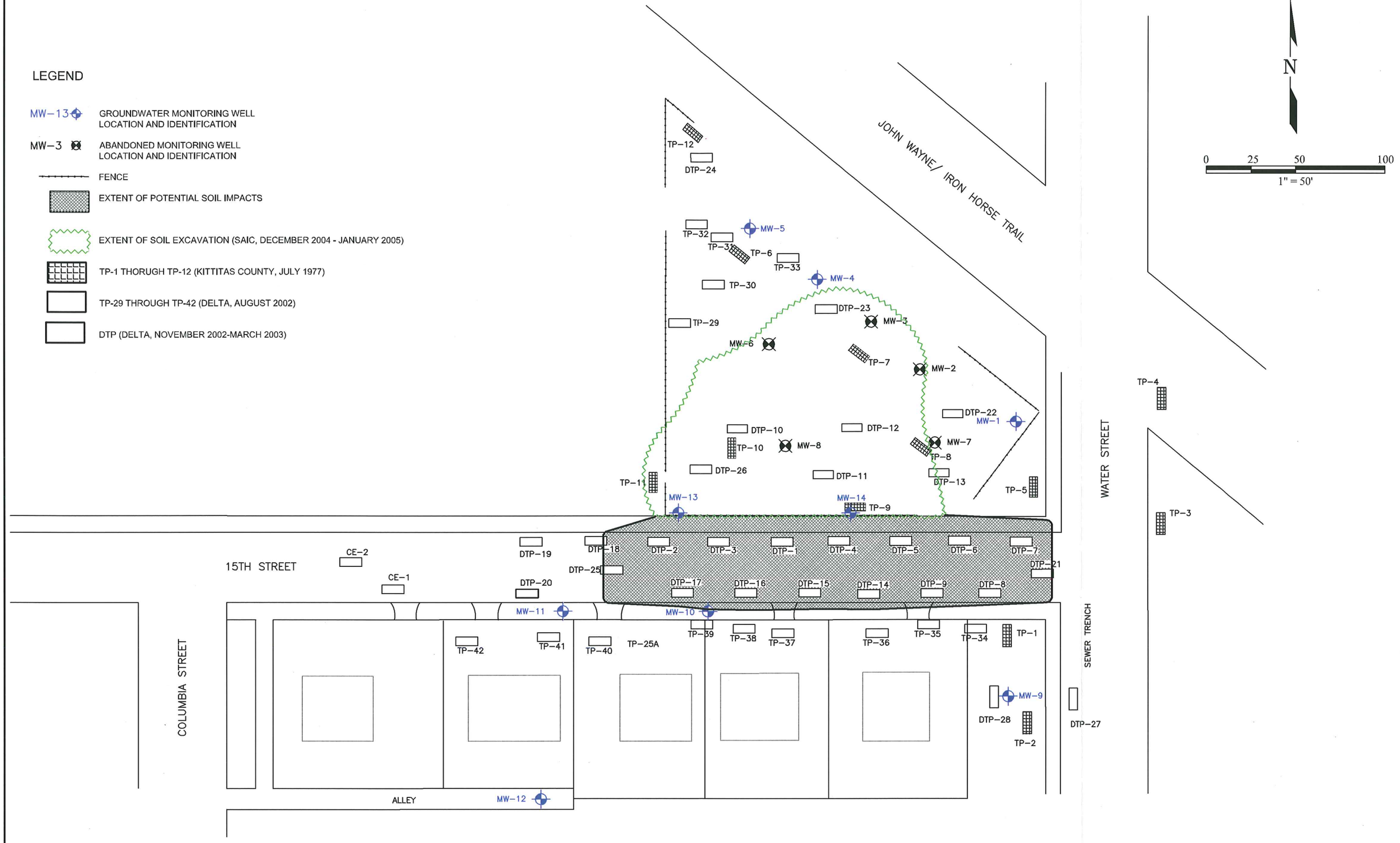
EXTENT OF POTENTIAL SOIL IMPACTS

EXTENT OF SOIL EXCAVATION (SAIC, DECEMBER 2004 - JANUARY 2005)

TP-1 THORUGH TP-12 (KITTITAS COUNTY, JULY 1977)

TP-29 THROUGH TP-42 (DELTA, AUGUST 2002)

DTP (DELTA, NOVEMBER 2002-MARCH 2003)



SAIC From Science to Solutions

FORMER CHEVRON BULK PLANT NO. 1001157 WEST 15TH AVENUE & NORTH WATER STREET ELLENSBURG, WASHINGTON	FIGURE 1 EXTENT OF POTENTIAL SOIL IMPACTS
	FILE NAME: 100-1157-ExtSoilContam.dwg DATE: 02/03/2011

Z:\2004\ChevronTexaco\WA Portfolio\1001157 Ellensburg\100-1157-ExtSoilContam.dwg greenjamal 03/02/11 - 9:09 A

Attachment C:
Voluntary Cleanup Program (VCP) Application