



Stantec

Stantec Consulting Corporation
12034 134th Court NE, Suite 102
Redmond, WA 98052
Tel: (425) 372-1600
Fax: (425) 372-1650

UNOCAL STATION 4165

Snohomish

LEUST 1995

Quarterly Groundwater Monitoring Report - First Quarter 2009
ConocoPhillips Facility No. 254165 (RM&R #01234)
Washington Department of Ecology Voluntary Cleanup Program ID #NW1804
202 Avenue D
Snohomish, Washington 98290

Stantec Project No.:
212301492

Submitted to:
Mr. Mark Adams
Washington State Department of Ecology
3190 160th Avenue SE
Bellevue, WA 98008-5452

Submitted by:
Stantec Consulting Corporation
12034 134th Court NE, Suite 102
Redmond, WA 98052

Prepared on behalf of:
ConocoPhillips Company

June 19, 2009

RECEIVED
JUN 22 2009
DEPT. OF ECOLOGY
TCF-NWRO

Stantec**Quarterly Status Summary Report First Quarter 2009**June 19, 2009

Dear Mr. Adams:

Stantec Consulting Corporation (Stantec) is pleased to present this quarterly groundwater monitoring report to the Washington State Department of Ecology (DOE) Voluntary Cleanup Program (VCP) on behalf of the ConocoPhillips Company (ConocoPhillips). This report describes the results of groundwater monitoring activities performed by Stantec during the First Quarter of 2009 (the reporting period) at ConocoPhillips Facility No. 254165 (RM&R #01234; DOE VCP #NW1804) located at 202 Avenue D in Snohomish, Washington (the Site).

GROUNDWATER MONITORING ACTIVITIES

Groundwater monitoring activities during the reporting period were performed on March 26, 2009. Groundwater monitoring activities were performed in accordance with Stantec's protocols for groundwater monitoring events. A copy of Stantec's for groundwater monitoring events is included in Appendix A. ✓

Nine of the existing ten groundwater monitoring wells (MW-1A, MW-2, MW-6A, MW-9, MW-11, MW-12, MW-13, MW-14, and MW-15) were gauged and sampled. Well MW-10 was not sampled due to the well being located in a dangerous traffic location. Gauging, purging, and sampling activities are described below.

Monitoring Well Gauging

Nine groundwater monitoring wells were gauged: MW-1A, MW-2, MW-6A, MW-9, MW-11, MW-12, MW-13, MW-14, and MW-15. Monitoring wells were gauged for the presence of liquid phase hydrocarbons (LPH) and depth-to-groundwater prior to purging and sampling. LPH was not measured in the groundwater monitoring wells at thicknesses greater than or equal to 0.01 foot. The depth to groundwater ranged from 3.61 feet (MW-2) to 8.75 feet (MW-13) below the top of casing (TOC). Depth-to-groundwater data was used to calculate the groundwater elevation in each well and evaluate the groundwater flow direction and gradient. Historical groundwater gauging data and gauging data from the reporting period are summarized in Table 1. Well locations and groundwater flow direction are shown on Figure 1. Based on these data, the inferred groundwater flow direction was to the southeast at an approximate gradient of 0.06 feet per foot (ft/ft).

Monitoring Well Purging

Wells intended to be sampled were purged after gauging. Groundwater was purged from the wells using low-flow methods, which included using a peristaltic pump and dedicated polyethylene tubing. Water quality parameters were measured during purging and recorded on

field data sheets. Copies of field data sheets are included in Appendix B. Purged groundwater and rinsate/decontamination water were stored on Site in a Department of Transportation (DOT)-approved, steel drum pending laboratory characterization and off-Site disposal.

Monitoring Well Sampling

Following purging operations, groundwater samples were collected using a peristaltic pump and placed directly into pre-cleaned sample containers provided by an independent laboratory.

Once the sample containers were filled and sealed, they were labeled with the pertinent sampling information, and placed on ice in an insulated cooler for delivery under chain-of-custody documentation to an independent laboratory.

CHEMICAL ANALYSES AND RESULTS

Chemical Analyses

Groundwater samples collected during the reporting period were submitted to Pace Analytical Services, Inc. (Pace) in Seattle, Washington for the following chemical analyses:

- Benzene, toluene, ethylbenzene, and total xylenes (BTEX); and methyl tert-butyl ether (MTBE) using Environmental Protection Agency (EPA) Method 8260B;
- Total petroleum hydrocarbons (TPH) as gasoline (TPH-G) using DOE Northwest Method NWTPH-Gx; and
- TPH as diesel (TPH-D) and TPH as oil (TPH-O) using DOE Northwest Method NWTPH-Dx with silica gel/acid cleanup;

Chemical analyses results are described below. A copy of the certified laboratory analytical report and chain-of-custody documentation from Pace are included in Appendix C.

Chemical Analyses Results

Historical chemical analyses results and those from the reporting period are summarized in Table 1. Analytical results for TPH-G, TPH-D, TPH-O, BTEX, and MTBE are illustrated on Figure 2 for the reporting period and the three previous reporting periods.

A summary of the analytical results exceeding Model Toxics Control Act (MTCA) Method A cleanup levels is provided below.

Analytical results did not exceed MTCA Method A cleanup levels at any of the wells sampled.

Laboratory Quality Assurance/Quality Control (QA/QC)

A copy of the analytical report for the samples collected during the reporting period is included in Appendix C. Please refer to the analytical report for a description of QA/QC methods and potential concerns, if any, that were identified during chemical analysis. Potential QA/QC concerns identified in the analytical report are noted on the tabulated analytical results included in Table 1.

WASTE DISPOSAL

Purge and rinse water generated during the monitoring and sampling event were temporarily stored on Site in a labeled, DOT-approved, steel drum. The drum and its contents will be transported off Site to a licensed disposal or recycling facility approved by ConocoPhillips. A copy of the signed waste manifest or other disposal documentation will be provided under a separate cover.

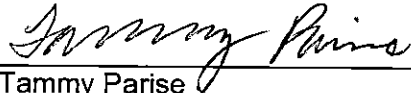
CONCLUSIONS

Based on data collected during the reporting period, groundwater flow direction were to the southeast at a gradient of approximately 0.06 ft/ft, and concentrations of TPH, BTEX and MTBE did not exceed MTCA Method A cleanup levels. These results are generally consistent with or lower than analytical results from other recent reporting periods.

LIMITATIONS AND CERTIFICATIONS

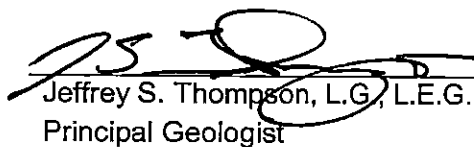
This report was prepared in accordance with the scope of work outlined in Stantec's contract and with generally accepted professional engineering and environmental consulting practices existing at the time this work plan was prepared and applicable to the location of the Site. It was prepared for the exclusive use of ConocoPhillips Company for the express purpose stated above. Any re-use of this report for a different purpose or by others not identified above shall be at the user's sole risk without liability to Stantec. To the extent that this report is based on information provided to Stantec by third parties, Stantec may have made efforts to verify this third party information, but Stantec cannot guarantee the completeness or accuracy of this information. The opinions expressed and data collected are based on the conditions of the Site existing at the time of the field investigations. No other warranties, expressed or implied are made by Stantec.

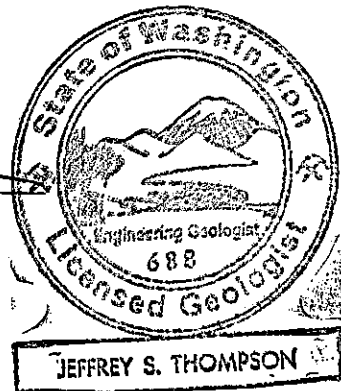
Prepared by:



Tammy Parise
Staff Scientist

Reviewed by:


Jeffrey S. Thompson, L.G., L.E.G.
Principal Geologist



ATTACHMENTS

Table 1	Cumulative Groundwater Elevations and Sample Analytical Results
Figure 1	Site Plan with Groundwater Elevations (March 26, 2009)
Figure 2	Site Plan with Analytical Results (March 26, 2009)
Appendix A	Field and Laboratory Procedures
Appendix B	Field Data Sheets
Appendix C	Certified Laboratory Analytical Report and Chain-of-Custody Documentation

TABLES

TABLE 1
CUMULATIVE GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
 ConocoPhillips Facility No. 254165 (RM&R #01234)
 202 Avenue D
 Snohomish, Washington

Well ID TOC Elevation	Sample Date	Elevation Data (feet)				Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Ferrous Iron (µg/L)	Alkalinity (µg/L)	Nitrate (µg/L)	Nitrite (µg/L)	Sulfate (µg/L)	
		Top of Casing Elevation	DTW	LPH Thickness	GW Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)						
MW-1A 69.32	04/04/02	69.32	7.21	—	62.11	73.6	<250	<500	<0.500	<0.500	<0.500	<1.00	—	3,200	61,600	886	—	47,800	
	07/02/02	69.32	9.30	—	60.02	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	—	0	42,400	<200	—	54,500	
	10/02/02	69.32	11.67	—	57.65	<100	<250	<500	<0.500	<2.00	<1.00	<1.50	—	0	103,000	<200	—	50,300	
	01/14/03	69.32	7.75	—	61.57	90.5	<250	<500	0.550	<0.500	<0.500	<1.00	—	—	—	—	—	—	
	04/28/03	69.32	7.85	—	61.47	59.2	<250	<500	1.54	<0.500	<0.500	<1.00	—	500	64,800	300	—	30,400	
	07/11/03	69.32	10.31	—	59.01	<50.0	<281	<562 ^b	<0.500	0.702	0.517	1.74	—	—	—	—	—	—	
	12/17/03	69.32	7.44	0.00	61.88	<100	<129	<259	0.339	<0.5	<0.5	<1	—	—	64,000	406	—	40,900	
	03/31/04	69.32	8.28	0.00	61.04	<100	<119	<237	<1	<1	<1	<2	—	—	62,000	1,010	—	30,400	
	08/19/04	69.32	10.89	0.00	58.43	<100	<264	<527 ^b	<1	<1	<1	<2	—	—	66,000	800	—	35,700	
	03/21/05	69.32	9.22	0.00	60.10	266	<248	<496	<1	<1	<1	<2	—	—	61,900	1,410	—	32,600	
	06/28/05	69.32	8.86	0.00	60.46	<100	<259	<517 ^b	<1	<1	<1	<2	—	—	—	1,200	—	26,300	
	09/15/05	69.32	10.67	0.00	58.65	<48	<160	<200	<0.5	<0.7	<0.8	<0.8	—	—	76,200	160	—	24,000	
	12/08/05	—	—	—	—	<48	<78	<97	<0.5	<0.7	<0.8	<0.8	—	—	76,700	1,200	<8	41,900	
	03/10/06	—	—	—	—	<48	<79	<99	<0.5	<0.7	<0.8	<0.8	—	—	62,600	9,400	—	42,600	
	06/08/06	69.32	8.92	0.00	60.40	<48	<82	<100	<0.5	<0.7	<0.8	<0.8	—	—	—	—	—	—	
	09/05/06	69.32	11.05	0.00	58.27	<48	<78	<98	<0.5	<0.7	<0.8	<0.8	—	—	75,800	540	—	40,900	
	12/19/06	69.32	6.75	0.00	62.57	<48	<80	<100	<0.5	<0.7	<0.8	<0.8	—	—	67,400	10,500	—	65,100	
	03/20/07	69.32	7.39	0.00	61.93	<48	<79	145	<0.5	<0.7	<0.8	<0.8	—	—	63,200	3,970	—	24,600	
	06/28/07	69.32	9.79	0.00	59.53	<50	<79	<99	<0.5	<0.7	<0.8	<0.8	—	—	61,600	1,200	—	18,700	
	09/25/07	69.32	11.04	0.00	58.28	<50	<79	120	<0.5	<0.7	<0.8	<0.8	—	—	69,000	480	—	22,300	
12/10/07	69.32	7.44	0.00	61.88	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	—	—	64,100	10,300	<15	244,000		
03/10/08	69.32	8.70	0.00	60.62	<50	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5	—	63,700	3,300	<15	—		
06/16/08	69.32	8.44	0.00	60.88	<50	<76	<95	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—		
09/22/08	69.32	10.80	0.00	58.52	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	—	—	—	—	—	—		
12/08/08	69.32	Removed from sampling schedule 4Q08.					—	—	—	—	—	—	—	—	—	—	—	—	
03/26/09	69.32	7.89	0.00	61.43	<50.0	<82	<410	<1.0	<1.0	<1.0	<1.0	<1.0	—	—	—	—	—	—	
MW-2 69.80	01/08/99	69.80	4.90	—	64.90	1,510	314	<750 ^b	20.7	<2.75	<2.50	<5.00	—	—	—	—	—	—	
	04/28/99	69.80	4.91	—	64.89	1,180	324	<750 ^b	16.1	<1.60	<1.32	<3.30	—	—	—	—	—	—	
	07/23/99	69.80	6.29	—	63.61	805	368	<750 ^b	12.3	<1.50	<0.500	<4.00	—	—	—	—	—	—	
	10/25/99	69.80	8.64	—	61.16	2,100	250	<750 ^b	<0.700	<19.6	<0.700	<1.90	—	—	—	—	—	—	
	01/08/00	69.80	4.72	—	65.08	1,530	<250	<750 ^b	22.2	<2.27	<2.43	<6.44	—	—	—	—	—	—	
	04/19/00	69.80	5.48	—	64.32	1,210	257	<718 ^b	<0.500	28.5	<2.55	<4.22	—	—	—	—	—	—	
	07/12/00	69.80	7.55	—	62.25	888	653	<750 ^b	<1.25	4.75	<1.25	<2.50	—	—	—	—	—	—	
	09/06/00	69.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	10/16/00	69.80	8.88	—	60.92	1,110	<358	<1,070 ^b	42.3	<4.13	<2.08	<5.00	—	—	—	—	—	—	
	11/27/00	69.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	01/16/01	69.80	6.02	—	63.78	2,000	614	<918 ^b	<2.50	29.1	<2.50	<5.00	—	—	—	—	—	—	
	04/04/01	Unable to locate					—	—	—	—	—	—	—	—	—	—	—	—	—
	05/22/01	69.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	07/09/01	69.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
10/09/01	69.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
01/08/02	Obstructed by construction					—	—	—	—	—	—	—	—	—	—	—	—	—	
04/04/02	69.80	3.47	—	66.33	159	<250	<500	16.3	1.25	<0.500	2.57	—	—	—	—	—	—	—	
07/02/02	69.80	5.49	—	64.31	387	273	<500	23.4	<0.500	<0.500	<1.00	—	3,400	148,000	<200	—	29,600		
10/02/02	69.80	7.88	—	61.92	505	<250	<500	22.5	<2.00	<1.00	<1.50	—	3,400	150,000	<200	<1.00	41,600		

TABLE 1
CUMULATIVE GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
 ConocoPhillips Facility No. 254165 (RM&R #01234)
 202 Avenue D
 Snohomish, Washington

Well ID TOC Elevation	Sample Date	Elevation Data (feet)				Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Ferrous Iron (µg/L)	Alkalinity (µg/L)	Nitrate (µg/L)	Nitrite (µg/L)	Sulfate (µg/L)		
		Top of Casing Elevation	DTW	LPH Thickness	GW Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)							
MW-2	01/14/03	69.80	3.27	—	66.53	681	<250	<500	8.10	<0.500	0.515	2.49	—	—	—	—	—			
	04/28/03	69.80	4.05	—	65.75	269	<250	<500	3.51	<0.500	<0.500	1.45	—	2,600	276,000	<200	—	26,800		
	07/11/03	69.80	6.92	—	62.88	358	<291	<581 ^b	5.64	0.557	0.792	3.04	—	—	—	—	—			
	12/17/03	69.80	3.65	0.00	66.15	124	<129	<259	<0.25	<0.5	<0.5	<1.00	—	—	310,000	<15	—	23,000		
	03/31/04	69.80	4.60	0.00	65.20	<100	123	<237	9.05	<1	<1	1.12	—	—	251,000	<15	—	23,000		
	08/19/04	69.80	7.45	0.00	62.35	<100	<244	<488	<1	<1	<1	<2	—	—	208,000	200	—	8,710		
	03/21/05	69.80	5.52	0.00	64.28	<100	<251	<502 ^b	5.07	<1	<1	<2	—	—	205,000	<15	—	26,900		
	06/28/05	69.80	5.26	0.00	64.54	<100	344	568	<1	<1	<1	<2	—	—	—	<15	—	20,800		
	09/15/05	69.80	7.32	0.00	62.48	<48	<80	<100	<0.5	<0.7	<0.8	<0.8	—	—	209,000	<40	—	19,100		
	12/08/05	69.80	4.06	0.00	65.74	85	97	160	<0.5	<0.7	<0.8	<0.8	—	—	274,000	<40	—	19,400		
	03/10/06	69.80	3.50	0.00	66.30	160	<79	100	<0.5	<0.7	<0.8	<0.8	—	—	205,000	<40	—	262		
	06/08/06	69.80	5.06	0.00	64.74	<48	<79	290	<0.5	<0.7	<0.8	<0.8	—	—	—	—	—	—		
	09/05/06	69.80	7.93	0.00	61.87	<48	<79	150	<0.5	<0.7	<0.8	<0.8	—	—	225,000	<40	—	12,900		
	12/19/06	Obstructed by a parked vehicle																		
	03/20/07	69.80	3.33		66.47	68.5	<80	<100	1.64	<0.7	<0.8	<0.8	—	—	163,000	<40	—	26,700		
	06/28/07	69.80	6.41		63.39	<50	<79	<98	<0.5	<0.7	<0.8	<0.8	—	—	193,000	<40	—	25,900		
	09/25/07	69.80	7.79		62.01	<50	<79	<98	<0.5	<0.7	<0.8	<0.8	—	—	200,000	<40	—	12,300		
	12/10/07	69.80	3.75		66.05	<50	<77	<96	<0.5	<0.7	<0.8	<0.8	—	—	200,000	<2,000	<15	43,700		
	03/10/08	69.80	4.76	0.00	65.04	Not sampled because well was inaccessible due to a parked car.														
	06/16/08	69.80	4.45	0.00	65.35	<50	<76	<95	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—		
	09/22/08	69.80	7.56	0.00	62.24	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	—	—	—	—	—	—		
	12/08/08	69.80	Removed from sampling schedule 4Q08.																	
	03/26/09	69.80	3.61	0.00	66.19	<50.0	<82	<410	<1.0	<1.0	<1.0	<1.0	<1.0	—	—	—	—	—		
MW-6A 67.65	04/04/02	67.65	8.25	—	59.40	2,570	665	<500	2.99	3.16	2.25	7.27	—	—	—	—	—	—		
	07/02/02	67.65	8.98	—	58.67	3,000	613	<500	4.70	4.51	3.42	9.81	—	—	—	—	—	—		
	10/02/02	67.65	10.48	—	57.17	2,970	384	<500	32.4	6.38	8.44	9.75	—	—	—	—	—	—		
	01/14/03	67.65	9.88	—	57.77	1,680	<250	<500	6.69	2.24	1.60	13.4	—	—	—	—	—	—		
	04/28/03	67.65	9.20	—	58.45	1,720	288	<562 ^b	1.65	2.20	2.99	12.6	—	2,800	203,000	<200	—	12,100		
	07/11/03	67.65	8.48	—	59.17	1,470	<281	<562 ^b	2.13	2.45	3.23	6.92	—	—	—	—	—	—		
	12/17/03	67.65	9.45	0.00	58.20	2,380	457	<265	0.875	1.75	0.941	<1	—	—	87,000	442	—	39,600		
	03/31/04	67.65	8.97	0.00	58.68	1,810	682	<247	<5	<5	<5	<10	—	—	230,000	<15	—	5,560		
	08/19/04	67.65	9.22	0.00	58.43	988	347	<476	<1	<1	<1	<2	—	—	205,000	200	—	9,480		
	03/21/05	67.65	9.45	0.00	58.20	1,610	349	<501 ^b	<0.5	4.58	4.95	4.71	—	—	201,000	<15	—	11,300		
	06/28/05	67.65	9.02	0.00	58.63	1,710	533	<490	<1	1.3	<1	<2	—	—	—	<15	—	3,620		
	09/15/05	67.65	10.67	0.00	56.98	570	220	120	<0.5	0.9	0.9	<0.8	—	—	178,000	<40	—	14,000		
	12/08/05	67.65	9.61	0.00	58.04	920	2,805	170	<0.5	0.9	<0.8	<0.8	—	—	225,000	<40	—	7,400		
	03/10/06	67.65	9.65	0.00	58.00	1,200	180	<100	<0.5	0.8	<0.8	<0.8	—	—	210,000	<40	—	9,700		
	06/08/06	67.65	9.92	0.00	57.73	1,300	210	260	<0.5	0.9	<0.8	<0.8	—	—	—	—	—	—		
	09/05/06	67.65	10.46	0.00	57.19	500	140	130	<0.5	<0.7	<0.8	<0.8	—	—	163,000	<40	—	18,100		
	12/19/06	67.65	8.21	Sheen	59.44	2,200	910	350	0.6	2.0	<0.8	<0.8	—	—	230,000	<40	—	6,400		
	03/20/07	67.65	7.79	0.00	59.86	1,380	332	<100	<0.5	0.855	<0.8	<0.8	—	—	216,000	<100	—	16,900		
	06/28/07	67.65	8.79	0.00	58.86	620	210	<100	<0.5	<0.7	<0.8	<0.8	—	—	185,000	<40	—	18,000		
	09/25/07	67.65	10.21	0.00	57.44	960	350	120	<0.5	<0.7	<0.8	<0.8	—	—	155,000	<40	—	16,800		
	12/10/07	67.65	8.46	0.00	59.19	1,700	280	<94	<0.5	1	<0.8	<0.8	—	—	220,000	<2,000	<15	8,200		
	03/10/08	67.65	9.65	0.00	58.00	1,000	130	<95	<0.5	0.9	<0.8	<0.8	<0.5	—	218,000	<2,000	<15	—		
	06/16/08	67.65	8.44	0.00	59.21	840	140	<95	<0.5	1	0.7	<0.5	—	—	—	—	—	—		
09/22/08	67.65	9.87	0.00	57.78	1,600	96	<95	<0.5	1	0.9	<0.8	—	—	—	—	—	—			
12/08/08	67.65	9.50	0.00	58.15	1,800	130	<69	<0.5	1	<0.8	<0.8	—	—	—	—	—	—			
03/26/09	67.65	7.90	0.00	59.75	124	110	<420	<1.0	<1.0	<1.0	<1.0	<1.0	—	—	—	—	—			

TABLE 1
CUMULATIVE GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
 ConocoPhillips Facility No. 254165 (RM&R #01234)
 202 Avenue D
 Snohomish, Washington

Well ID TOC Elevation	Sample Date	Elevation Data (feet)				Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Ferrous Iron (µg/L)	Alkalinity (µg/L)	Nitrate (µg/L)	Nitrite (µg/L)	Sulfate (µg/L)
		Top of Casing Elevation	DTW	LPH Thickness	GW Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)					
MW-9	01/08/99	68.66	6.50	—	62.16	<50.0	<250	<750 ^b	<0.500	<0.500	<0.500	<1.00	—	—	—	—	—	—
67.77	04/28/99	68.66	7.28	—	61.38	<50.0	<250	<750 ^b	<0.500	<0.500	<0.500	<1.00	—	—	—	—	—	—
	07/23/99	68.66	7.97	—	60.69	<50.0	<250	<750 ^b	<0.500	<0.500	<0.500	<1.00	—	—	—	—	—	—
	10/25/99	68.66	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	01/08/00	68.66	6.76	—	61.90	<50.0	<250	<750 ^b	<0.500	<0.500	<0.500	<1.00	—	—	—	—	—	—
	04/19/00	68.66	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	07/12/00	68.66	8.65	—	60.01	<50.0	<249	<745 ^b	<0.500	<0.500	<0.500	<1.00	—	—	—	—	—	—
	09/06/00	68.66	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10/16/00	68.66	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	11/27/00	68.66	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	01/16/01	68.66	8.08	—	60.58	<50.0	—	—	<0.500	<0.500	<0.500	<1.00	—	—	—	—	—	—
	04/04/01	68.66	7.78	—	60.88	<50.0	<250	<750 ^b	<0.500	<0.500	<0.500	<1.00	—	—	—	—	—	—
	05/22/01	68.66	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	07/09/01	68.66	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10/09/01	68.66	9.70	—	58.96	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	—	0.0	33,000	3,050	—	13,500
	01/08/02	68.66	6.16	—	62.50	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	—	0.0	32,600	1,780	—	13,100
	04/04/02	68.66	6.54	—	62.12	<50.0	<250	<500	<0.500	0.593	<0.500	<1.00	—	0.0	29,800	2,490	—	12,600
	07/02/02	68.66	8.49	—	60.17	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	—	0.0	28,600	2,020	—	11,200
	10/02/02	68.66	10.13	—	58.53	144	<250	<500	3.15	<2.00	7.22	2.25	—	0.0	32,400	2,490	—	10,400
	01/14/03	68.66	7.28	—	61.38	<50.0	<284	<568 ^b	<0.500	<0.500	<0.500	<1.00	—	—	—	—	—	—
	04/28/03	68.66	6.93	—	61.73	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	—	0.0	33,400	1,280	—	17,300
	07/11/03	68.66	8.91	—	59.75	<50.0	<329	<658 ^b	<0.500	<0.500	<0.500	1.20	—	—	—	—	—	—
	12/23/03	68.66	6.81	0.00	61.85	<100	<126	<253	<0.25	<0.5	<0.5	<1	—	—	32,000	2,710	—	14,400
	03/31/04	68.66	7.34	0.00	61.32	<100	<118	<237	<1	<1	<1	<2	—	—	30,000	1,880	—	14,900
	08/19/04	68.66	9.53	0.00	59.13	<100	<256	<512 ^b	<1	<1	<1	<2	—	—	29,000	2,500	—	13,200
	03/21/05	67.77	8.11	0.00	59.66	<100	<247	<494	<1	<1	<1	<2	—	—	32,500	1,920	—	14,300
	06/28/05	67.77	7.82	0.00	59.95	<100	<258	<516 ^b	<1	<1	<1	<2	—	—	—	1,790	—	15,100
	09/15/05	67.77	9.54	0.00	58.23	<48	<77	260	<0.5	<0.7	<0.8	<0.8	—	—	29,800	2,300	—	13,400
	12/08/05	67.77	7.42	0.00	60.35	<48	170	470	<0.5	<0.7	<0.8	<0.8	—	—	31,400	2,400	—	13,600
	03/10/06	67.77	6.53	0.00	61.24	<48	<78	100	<0.5	<0.7	<0.8	<0.8	—	—	34,400	3,900	—	14,600
	05/08/06	67.77	7.80	0.00	59.97	<48	<80	180	<0.5	<0.7	<0.8	<0.8	—	—	—	—	—	—
	09/05/06	67.77	9.78	0.00	57.99	<48	<78	330	<0.5	<0.7	<0.8	<0.8	—	—	32,800	3,100	—	15,300
	12/19/06	67.77	5.98	0.00	61.79	<48	<77	300	<0.5	<0.7	<0.8	<0.8	—	—	37,100	4,500	—	15,900
	03/20/07	67.77	6.73	0.00	61.04	<48	<79	170	<0.5	<0.7	<0.8	<0.8	—	—	35,600	3,290	—	16,200
	06/28/07	67.77	8.65	0.00	59.12	<50	<79	<98	<0.5	<0.7	<0.8	<0.8	—	—	32,900	3,000	—	16,000
	09/25/07	67.77	9.65	0.00	58.12	<50	110	760	<0.5	<0.7	<0.8	<0.8	—	—	31,700	2,600	—	16,900
	12/10/07	67.77	6.52	0.00	61.25	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	—	—	30,800	<2,000	<15	17,700
	03/10/08	67.77	7.55	0.00	60.22	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	—	38,200	<2,000	<15	—
	06/16/08	67.77	7.40	0.00	60.37	<50	<76	<95	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—
	09/22/08	67.77	9.60	0.00	58.17	<50	<75	<94	<0.5	<0.7	<0.8	<0.8	—	—	—	—	—	—
	12/08/08	67.77	Removed from sampling schedule 4Q08.					—	—	—	—	—	—	—	—	—	—	—
	03/26/09	67.77	7.43	0.00	60.34	<50.0	<83	<420	<1.0	<1.0	<1.0	<1.0	<1.0	—	—	—	—	—

TABLE 1:
CUMULATIVE GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
 ConocoPhillips Facility No. 254165 (RM&R #01234)
 202 Avenue D
 Snohomish, Washington

Well ID TOC Elevation	Sample Date	Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Ferrous Iron (µg/L)	Alkalinity (µg/L)	Nitrate (µg/L)	Nitrite (µg/L)	Sulfate (µg/L)
		Top of Casing Elevation	DTW	LPH Thickness	GW Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)				
MW-10	01/08/99	67.33	4.91	—	62.42	331	266	<750 ^b	2.30	<0.500	<1.50	<2.50	—	—	—	—	—
67.33	04/28/99	67.33	5.04	—	62.29	280	<250	<750 ^b	2.99	<0.800	<1.10	<3.00	—	—	—	—	—
	07/23/99	67.33	5.44	—	61.89	529	<250	<750 ^b	2.34	<2.60	2.81	9.37	—	—	—	—	—
	10/25/99	67.33	7.00	—	60.33	519	251	<750 ^b	<0.800	<5.65	<2.75	<8.65	—	—	—	—	—
	01/08/00	67.33	4.64	—	62.69	504	<250	<750 ^b	<1.22	<0.828	<3.27	<7.59	—	—	—	—	—
	04/19/00	67.33	5.02	—	62.31	332	<250	<750 ^b	<0.610	<4.43	<2.84	<6.91	—	—	—	—	—
	07/12/00	67.33	8.27	—	59.06	498	<250	<750 ^b	<0.500	4.02	<3.52	<7.18	—	—	—	—	—
	09/06/00	67.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10/16/00	67.33	7.41	—	59.92	770	616	<1,330 ^b	<4.17	<3.47	<2.69	<8.05	—	—	—	—	—
	11/27/00	67.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	01/16/01	67.33	4.39	—	62.94	209	299	<859 ^b	<0.500	2.33	0.980	2.65	—	—	—	—	—
	04/04/01	67.33	5.00	—	62.33	198	<250	<750 ^b	<0.500	<0.500	1.03	2.71	—	—	—	—	—
	05/22/01	67.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	07/09/01	67.33	6.03	—	61.30	311	334	<853 ^b	<0.500	1.97	0.949	1.07	—	—	—	—	—
	10/09/01	67.33	7.15	—	60.18	675	291	<581 ^b	2.16	0.678	0.777	4.67	—	4,600	132,000	<100	—
	01/08/02	67.33	4.61	—	62.72	258	675	<500	0.837	0.722	1.48	2.71	—	4,200	168,000	<100	—
	04/04/02	67.33	4.48	—	62.85	208	392	<500	<0.500	<0.500	<0.500	1.33	—	2,000	170,000	<200	—
	07/02/02	67.33	6.00	—	61.33	201	250	<500	0.552	<0.500	<0.500	1.16	—	2,200	133,000	<200	—
	10/02/02	67.33	7.96	—	59.37	811	326	<500	3.90	<2.00	4.12	4.63	—	2,200	129,000	<200	—
	01/14/03	67.33	4.25	—	63.08	280	<309	<617 ^b	0.549	0.844	<0.500	1.76	—	—	—	—	—
	04/28/03	67.33	4.71	—	62.62	270	<250	<500	0.842	<0.500	<0.500	2.29	—	2,400	162,000	<200	—
	07/11/03	67.33	6.40	—	60.93	548	<284	<568 ^b	0.929	<0.500	3.19	4.18	—	—	—	—	—
	12/17/03	Inaccessible; buried under gravel from recent road construction															
	03/31/04	67.33	4.28	0.00	63.05	390	308	<237	<1	<1	<1	<2	—	—	141,000	<15	—
	08/19/04	67.33	6.84	0.00	60.49	244	<251	<501 ^b	<1	<1	<1	<2	—	—	127,000	200	—
	03/21/05	67.33	4.71	0.00	62.62	396	<247	<494	<1	<1	1.93	<2	—	—	154,000	<15	—
	06/28/05	67.33	4.77	0.00	62.56	624	746	<504 ^b	<1	<1	<1	<2	—	—	—	<15	—
	09/15/05	67.33	7.03	0.00	60.30	290	110	120	<0.5	<0.7	<0.8	<0.8	—	—	110,000	<40	—
	12/08/05	67.33	4.23	0.00	63.10	540	<82	<100	<0.5	<0.7	6.0	2.0	—	—	137,000	<40	—
	03/10/06	67.33	3.41	0.00	63.92	3,100	290	220	<0.5	<0.7	9.0	8.0	—	—	119,000	<100	—
	06/08/06	67.33	4.83	0.00	62.50	290	<79	120	<0.5	<0.7	<0.8	<0.8	—	—	—	—	—
	09/05/06	67.33	7.51	0.00	59.82	290	100	130	<0.5	<0.7	<0.8	<0.8	—	—	111,000	<40	—
	12/19/06	67.33	2.57	0.00	64.76	2,600	390	470	0.6	<0.7	11.0	8.0	—	—	161,000	<40	—
	03/20/07	67.33	3.04	0.00	64.29	4,144	665	162	0.527	<0.7	25.0	18.1	—	—	117,000	1,740	—
	06/28/07	67.33	5.18	0.00	62.15	1,700	430	<97	<0.5	<0.7	5	3	—	—	137,000	<40	—
	09/25/07	67.33	7.43	0.04	59.93	Not sampled due to presence of LPH											
	12/10/07	67.33	4.22	0.00	63.11	4,800	2,800	<970 ^b	<0.5	<0.7	11	8	—	—	136,000	<2,000	<15
	03/10/08	67.33	Not sampled due to dangerous traffic location.														
	06/16/08	67.33	Not sampled due to dangerous traffic location.														
	09/22/08	67.33	6.35	0.00	60.98	1,200	82	<95	<0.5	<0.7	3	3	—	—	—	—	—
	12/08/08	67.33	Removed from sampling schedule 4Q08.														
	03/26/09	67.33	Not sampled due to dangerous traffic location.														

TABLE 1
CUMULATIVE GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
 ConocoPhillips Facility No. 254165 (RM&R #01234)
 202 Avenue D
 Snohomish, Washington

Well ID TOC Elevation	Sample Date	Elevation Data (feet)				Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Ferrous Iron (µg/L)	Alkalinity (µg/L)	Nitrate (µg/L)	Nitrite (µg/L)	Sulfate (µg/L)
		Top of Casing Elevation	DTW	LPH Thickness	GW Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)					
MW-11 66.37	01/08/99	66.37	9.32	—	57.05	371	—	—	141	4.95	10.8	6.66	—	—	—	—	—	—
	04/28/99	66.37	9.58	—	56.79	782	<250	<750 ^b	175	<11.0	26.1	29.9	—	—	—	—	—	—
	07/23/99	66.37	9.83	—	56.54	474	<250	<750 ^b	43.7	<2.70	3.40	8.32	—	—	—	—	—	—
	10/25/99	66.37	10.69	—	55.68	845	<250	<750 ^b	9.22	<2.90	<3.75	<6.20	—	—	—	—	—	—
	01/08/00	66.37	9.21	—	57.16	133	<250	<750 ^b	22.5	<1.03	1.11	3.34	—	—	—	—	—	—
	04/19/00	66.37	9.52	—	56.85	869	<250	<750 ^b	82.8	8.15	9.25	20.2	—	—	—	—	—	—
	07/12/00	66.37	10.10	—	56.27	581	387	<896 ^b	25.6	2.32	<2.31	<7.94	—	—	—	—	—	—
	09/06/00	66.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10/16/00	66.37	10.80	—	55.57	322	<250	<750 ^b	<2.80	<0.640	<0.860	<4.20	—	—	—	—	—	—
	11/27/00	66.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	01/16/01	66.37	10.75	—	55.62	725	311	<866 ^b	16.7	2.41	4.46	7.09	—	—	—	—	—	—
	04/04/01	66.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	05/22/01	66.37	9.69	—	56.68	385	—	—	—	—	—	—	—	—	—	—	—	—
	07/09/01	66.37	9.98	—	56.39	439	<310	<931 ^b	39.6	2.63	1.72	3.71	—	—	—	—	—	—
	10/09/01	66.37	10.67	—	55.70	410	333	<500	6.04	1.08	1.74	4.40	—	3,200	158,000	<100	—	9,410
65.52	01/08/02	66.37	9.05	—	57.32	1,280	572	<500	184	10.6	35.7	21.9	—	3,200	186,000	<100	—	6,550
	04/04/02	66.37	5.67	—	60.70	757	366	<500	30.6	2.20	2.81	5.72	—	5,400	203,000	<200	—	2,190
	07/02/02	66.37	5.90	—	60.47	1,060	384	<500	107	8.73	24.2	15.5	—	4,000	203,000	<200	—	2,930
	10/02/02	66.37	10.94	—	55.43	785	<250	<500	13.9	<2.00	4.96	3.59	—	4,000	169,000	<200	—	4,040
	01/14/03	66.37	9.18	—	57.19	570	<305	<610 ^b	19.3	1.12	1.96	3.82	—	—	—	—	—	—
	04/28/03	66.37	9.25	—	57.12	1,100	<287	<575 ^b	135	10.7	34.1	20.1	—	4,000	208,000	<200	—	3,320
	07/11/03	66.37	10.19	—	56.18	684	<250	<500	29.7	3.20	10.0	9.17	—	—	—	—	—	—
	12/17/03	66.37	8.35	0.00	58.02	673	215	<265	15.1	0.569	<0.5	<1	—	—	170,000	<150	—	73,200
	03/31/04	66.37	8.70	0.00	57.67	409	<127	<253	93.9	5.02	10.4	5.39	—	—	218,000	<15	—	30,100
	08/19/04	65.52	9.73	0.00	55.79	289	<240	<480	2.69	<1	<1	<2	—	—	167,000	200	—	10,600
	03/21/05	65.52	9.10	0.00	56.42	564	<244	<488	36.8	4.18	9.48	7.34	—	—	189,000	<15	—	34,800
	06/28/05	65.52	8.84	0.00	56.68	653	13,300	5,650	74.8	4.9	11.20	6.41	—	—	—	<15	—	26,100
	09/15/05	65.52	9.73	0.00	55.79	280	89	170	12.0	0.7	<0.8	1.0	—	—	150,000	<40	—	11,300
	12/08/05	65.52	8.60	0.00	56.92	480	130	230	0.6	<0.7	<0.8	0.9	—	—	157,000	<40	—	114,000
	03/10/06	65.52	8.18	0.00	57.34	1,600	420	<98	86	6.0	33	8.0	—	—	164,000	<40	—	31,500
	06/08/06	65.52	8.81	0.00	56.71	940	230	170	48	3.0	8.0	4.0	—	—	—	—	—	—
	09/05/06	65.52	10.01	0.00	55.51	330	180	210	7.0	<0.7	<0.8	<0.8	—	—	157,000	<40	—	13,200
	12/19/06	65.52	8.10	0.00	57.42	340	140	190	18.0	0.8	4.0	<0.8	—	—	166,000	<40	—	33,800
	03/20/07	65.52	8.20	0.00	57.32	158	372	291	16.2	0.774	3.38	<0.8	—	—	159,000	<1,000	—	38,500
	06/28/07	65.52	9.05	0.00	56.47	290	390	<97	6	<0.7	2	<0.8	—	—	156,000	<40	—	13,200
	09/25/07	65.52	9.89	0.00	55.63	110	360	300	1	<0.7	<0.8	<0.8	—	—	145,000	<40	—	11,000
	12/10/07	65.52	8.37	0.00	57.15	84	<75	<94	<0.5	<0.7	<0.8	<0.8	—	—	124,000	<2,000	<15	78,200
	03/10/08	65.52	8.73	0.00	56.79	150	<76	<95	5	<0.7	1	<0.8	<0.5	—	144,000	<2,000	<15	—
	06/16/08	65.52	8.63	0.00	56.89	98	<76	<95	4	<0.5	<0.5	<0.5	—	—	—	—	—	—
	09/22/08	65.52	9.73	0.00	55.79	360	<75	<94	6	<0.7	1	<0.8	—	—	—	—	—	—
	12/08/08	65.52	8.65	0.00	56.87	<50	<29	<69	<0.5	<0.7	<0.8	<0.8	—	—	—	—	—	—
	03/26/09	65.52	8.37	0.00	57.15	<50.0	<82	<410	<1.0	<1.0	<1.0	<1.0	<1.0	—	—	—	—	—

TABLE 1
CUMULATIVE GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
 ConocoPhillips Facility No. 254165 (RM&R #01234)
 202 Avenue D
 Snohomish, Washington

Well ID TOC Elevation	Sample Date	Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Ferrous Iron (µg/L)	Alkalinity (µg/L)	Nitrate (µg/L)	Nitrite (µg/L)	Sulfate (µg/L)
		Top of Casing Elevation	DTW	LPH Thickness	GW Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)				
MW-12	01/08/99	66.40	8.74	—	57.66	2,670	—	—	21.1	<5.00	40.1	48.1	—	—	—	—	—
66.40	04/28/99	66.40	9.22	0.03	57.20	Not sampled due to presence of LPH											
	07/23/99	66.40	9.51	0.01	56.90	Not sampled due to presence of LPH											
	10/25/99	66.40	10.81	0.29	55.82	Not sampled due to presence of LPH											
	01/08/00	66.40	8.71	—	57.69	5,480	8,380	<8,250 ^b	<15.6	<10.2	53.2	47.8	—	—	—	—	—
	04/19/00	66.40	8.97	—	57.43	5,980	3,060	<3,750 ^b	<2.60	<21.5	66.6	<63.5	—	—	—	—	—
	07/12/00	66.40	—	0.20	—	Not sampled due to presence of LPH											
	09/06/00	66.40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10/16/00	66.40	—	0.25	—	Not sampled due to presence of LPH											
	11/27/00	66.40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	01/16/01	66.40	9.44	—	56.96	5,360	20,100	<8,250 ^b	<5.00	12.9	72.0	63.8	—	—	—	—	—
	04/06/01	66.40	9.16	—	57.24	15,900	6,950	2,280	17.6	9.04	219	131	—	—	—	—	—
	05/22/01	66.40	9.39	—	57.01	15,800	—	—	<10.0	10.3	307	142	—	—	—	—	—
	07/09/01	66.40	—	0.30	—	Not sampled due to presence of LPH											
	10/09/01	66.40	10.65	0.20	55.91	Not sampled due to presence of LPH											
	01/08/02	66.40	8.15	0.08	58.31	Not sampled due to presence of LPH											
	04/04/02	66.40	8.65	0.15	57.87	Not sampled due to presence of LPH											
	07/02/02	66.40	9.66	0.36	57.03	Not sampled due to presence of LPH											
	10/02/02	66.40	11.18	0.60	55.70	Not sampled due to presence of LPH											
	01/14/03	66.40	8.66	0.10	57.82	Not sampled due to presence of LPH											
	04/28/03	66.40	—	0.25	—	Not sampled due to presence of LPH											
	07/11/03	66.40	11.10	0.04	55.33	Not sampled due to presence of LPH											
	12/17/03	66.40	8.52	0.01	57.89	Not sampled due to presence of LPH											
	03/31/04	66.40	8.98	Sheen	57.42	23,400	17,800	2,200	<50	<50	<50	<100	—	—	129,000	<15	—
66.33	08/19/04	66.33	10.32	0.14	56.12	Not sampled due to presence of LPH											
	10/14/04	66.33	10.00	Sheen	56.33	—	—	—	—	—	—	—	—	—	—	—	—
	03/21/05	66.33	9.30	0.01	57.04	Not sampled due to presence of LPH											
	06/28/05	66.33	8.96	Sheen	57.37	8,030	<252	<503 ^b	<5	<5	30.20	<10	—	—	—	<75	—
	09/15/05	66.33	10.28	0.12	56.15	Not sampled due to presence of LPH											
	12/08/05	66.33	9.02	0.13	57.41	Not sampled due to presence of LPH											
	03/10/06	66.33	8.13	0.00	58.20	2,400	2,500	1,100	<0.5	<0.7	4.0	3.0	—	—	116,000	150	—
	06/08/06	66.33	9.00	0.00	57.33	9,300	930	420	1.0	2.0	20	4.0	—	—	—	—	—
	09/05/06	66.33	10.56	0.05	55.81	Not sampled due to presence of LPH											
	12/19/06	66.33	6.01	Sheen	60.32	7,300	1,400	580	<0.5	<0.7	4.0	<0.8	—	—	111,000	<40	—
	03/20/07	66.33	8.21	0.00	58.12	1,291	2,837	1,947	<0.5	<0.7	4.25	0.853	—	—	116,000	1,190	—
	06/28/07	66.33	9.42	0.00	56.91	1,800	1,300	540	<0.5	<0.7	4	<0.8	—	—	123,000	<40	—
	09/25/07	66.33	10.39	0.00	55.94	4,000	4,700	1,900	<0.5	<0.7	7	1	—	—	121,000	<40	—
	12/10/07	66.33	8.49	0.00	57.84	710	110	<94	<0.5	0.8	3	<0.8	—	—	110,000	<2,000	<15
	03/10/08	66.33	8.92	0.00	57.41	1,000	110	<96	<0.5	1	23	3	<0.5	—	109,000	<2,000	<15
	06/16/08	66.33	8.75	0.00	57.58	350	<75	<94	<0.5	<0.5	1	<0.5	—	—	—	—	—
	09/22/08	66.33	10.17	0.00	56.16	1,600	360	140	<0.5	<0.7	0.8	<0.8	—	—	—	—	—
	12/08/08	66.33	8.75	0.00	57.58	<50	<29	<68	<0.5	<0.7	<0.8	<0.8	—	—	—	—	—
	03/26/09	66.33	8.40	0.00	57.93	<50.0	<82	<410	<1.0	<1.0	<1.0	<1.0	<1.0	—	—	—	—

TABLE 1
CUMULATIVE GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
 ConocoPhillips Facility No. 254165 (RM&R #01234)
 202 Avenue D
 Snohomish, Washington

Well ID TOC Elevation	Sample Date	Elevation Data (feet)				Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Ferrous Iron (µg/L)	Alkalinity (µg/L)	Nitrate (µg/L)	Nitrite (µg/L)	Sulfate (µg/L)
		Top of Casing Elevation	DTW	LPH Thickness	GW Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)					
MW-13	03/21/05	67.59	9.72	0.00	57.87	424	<239	<478	2.84	1.71	5.21	1.85	--	--	229,000	<15	--	13,800
67.59	06/28/05	67.59	9.43	0.00	58.16	402	<244	<487	<1	<1	<1	<2	--	--	--	<15	--	16,600
	09/15/05	67.59	10.87	0.00	56.72	260	81	<98	<0.5	<0.7	<0.8	<0.8	--	--	225,000	<40	--	11,100
	12/08/05	67.59	9.34	0.00	58.25	230	<80	<100	<0.5	<0.7	<0.8	<0.8	--	--	228,000	<40	--	13,800
	03/10/06	67.59	8.46	0.00	59.13	400	<78	<97	22	<0.7	2.0	<0.8	--	--	229,000	<1000	--	18,500
	06/08/06	67.59	9.41	0.00	58.18	380	<81	<100	<0.5	<0.7	<0.8	<0.8	--	--	--	--	--	--
	09/05/06	67.59	11.28	0.00	58.31	240	<80	<99	<0.5	<0.7	<0.8	<0.8	--	--	218,000	<40	--	13,700
	12/19/06	67.59	8.30	0.00	59.29	430	100	220	<0.5	<0.7	<0.8	<0.8	--	--	191,000	<40	--	23,700
	03/20/07	67.59	8.50	0.00	59.09	391	<78	<97	14.3	<0.7	3.65	2.81	--	--	199,000	<1000	--	16,400
	06/28/07	67.59	9.93	0.00	57.66	270	<79	<99	<0.5	<0.7	<0.8	<0.8	--	--	209,000	<40	--	14,400
	09/25/07	67.59	11.13	0.00	56.46	170	84	<100	<0.5	<0.7	<0.8	<0.8	--	--	208,000	<40	--	13,100
	12/10/07	67.59	8.76	0.00	58.83	340	<77	<96	<0.5	<0.7	<0.8	<0.8	--	--	200,000	<2,000	<15	17,500
	03/10/08	67.59	9.32	0.00	58.27	230	<78	<97	<0.5	<0.7	<0.8	<0.8	2	--	192,000	<2,000	<15	--
	06/16/08	67.59	9.05	0.00	58.54	180	<76	<95	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--
	09/22/08	67.59	10.91	0.00	56.68	250	<76	<95	<0.5	<0.7	<0.8	<0.8	--	--	--	--	--	--
	12/08/08	67.59	Removed from sampling schedule 4Q08.					--	--	--	--	--	--	--	--	--	--	--
	03/26/09	67.59	8.75	0.00	58.84	271	<83	<410	<1.0	<1.0	<1.0	<1.0	2.2	--	--	--	--	--
MW-14	03/21/05	67.67	9.17	0.00	58.50	<100	<245	<489	<1	<1	<1	<2	--	--	97,400	29	--	46,200
67.67	06/28/05	67.67	8.87	0.00	58.80	197	<244	<488	<1	<1	<1	<2	--	--	--	<75	--	52,700
	09/15/05	67.67	10.68	0.00	56.99	66	130	170	<0.5	<0.7	<0.8	<0.8	--	--	96,100	<40	--	43,100
	12/08/05	67.67	8.79	0.00	58.88	74	140	180	<0.5	<0.7	<0.8	<0.8	--	--	97,300	<40	--	45,000
	03/10/06	67.67	7.74	0.00	59.93	55	<77	<97	<0.5	<0.7	<0.8	<0.8	--	--	104,000	<1,000	--	54,800
	06/08/06	67.67	8.92	0.00	58.75	<48	<81	150	<0.5	<0.7	<0.8	<0.8	--	--	--	--	--	--
	09/05/06	67.67	11.15	0.00	56.52	140	89	<100	<0.5	<0.7	<0.8	<0.8	--	--	89,700	<40	--	49,500
	12/19/06	67.67	7.40	0.00	60.27	<48	<76	96	<0.5	<0.7	<0.8	<0.8	--	--	96,900	<40	--	44,400
	03/20/07	67.67	7.60	0.00	60.07	52.9	<80	119	<0.5	<0.7	<0.8	<0.8	--	--	109,000	<40	--	48,900
	06/28/07	67.67	9.60	0.00	58.07	240	82	<97	<0.5	<0.7	<0.8	<0.8	--	--	89,600	<40	--	52,300
	09/25/07	67.67	10.96	0.00	56.71	140	<89	<110	<0.5	<0.7	<0.8	<0.8	--	--	84,400	<40	--	53,400
	12/10/07	67.67	7.98	0.00	59.69	<50	<77	96	<0.5	<0.7	<0.8	<0.8	--	--	104,000	<2,000	<15	45,000
	03/10/08	67.67	5.69	0.00	61.98	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	92,000	<2,000	<15	--
	06/16/08	67.67	8.90	0.00	58.77	<50	<75	<94	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--
	09/22/08	67.67	10.68	0.00	56.99	190	<76	<94	<0.5	<0.7	<0.8	<0.8	--	--	--	--	--	--
	12/08/08	67.67	Removed from sampling schedule 4Q08.					--	--	--	--	--	--	--	--	--	--	--
	03/26/09	67.67	7.75	0.00	59.92	<50.0	<82	<410	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--

TABLE 1
CUMULATIVE GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
 ConocoPhillips Facility No. 254165 (RM&R #01234)
 202 Avenue D
 Snohomish, Washington

Well ID TOC Elevation	Sample Date	Elevation Data (feet)				Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Ferrous Iron (µg/L)	Alkalinity (µg/L)	Nitrate (µg/L)	Nitrite (µg/L)	Sulfate (µg/L)
		Top of Casing Elevation	DTW	LPH Thickness	GW Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)					
MW-15 66.66	03/21/05	66.66	9.02	0.00	57.64	<100	<248	<497	<1	1.5	<1	<2	—	—	54,100	2,040	—	21,000
	06/28/05	66.66	8.64	0.00	58.02	<100	<247	<493	<1	<1	<1	<2	—	—	—	2,420	—	19,000
	09/15/05	66.66	10.19	0.00	56.47	<48	140	230	<0.5	<0.7	<0.8	<0.8	—	—	39,800	2,600	—	14,600
	12/08/05	66.66	8.60	0.00	58.06	<48	<80	<100	<0.5	<0.7	<0.8	<0.8	—	—	40,400	2,200	—	18,800
	03/10/06	66.66	7.99	0.00	58.67	<48	<77	<96	<0.5	<0.7	<0.8	<0.8	—	—	41,800	2,500	—	28,500
	06/08/06	66.66	8.74	0.00	57.92	<48	<78	<98	<0.5	<0.7	<0.8	<0.8	—	—	—	—	—	—
	09/05/06	66.66	10.45	0.00	56.21	<48	<79	<98	<0.5	<0.7	<0.8	<0.8	—	—	39,200	2,900	—	15,200
	12/19/06	66.66	6.00	0.00	60.66	<48	<80	<100	<0.5	<0.7	<0.8	<0.8	—	—	43,300	2,100	—	21,100
	03/20/07	66.66	7.70	0.00	58.96	<48	<80	110	<0.5	<0.7	<0.8	<0.8	—	—	10,500	554	—	12,400
	06/28/07	66.66	9.30	0.00	57.36	<50	<82	<100	<0.5	<0.7	<0.8	<0.8	—	—	45,400	3,300	—	16,200
	09/25/07	66.66	10.34	0.00	56.32	<50	<78	<97	<0.5	<0.7	<0.8	<0.8	—	—	41,500	2,700	—	16,300
	12/10/07	66.66	8.34	0.00	58.32	<50	<76	<94	<0.5	<0.7	<0.8	<0.8	—	—	42,100	<2,000	<15	21,500
	03/10/08	66.66	8.69	0.00	57.97	<50	<77	<96	<0.5	<0.7	<0.8	<0.8	<0.5	—	—	<2,000	<15	—
	06/16/08	66.66	8.51	0.00	58.15	<50	<75	<94	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—
	09/22/08	66.66	10.22	0.00	56.44	<50	<75	<94	<0.5	<0.7	<0.8	<0.8	—	—	—	—	—	—
	12/08/08	66.66	Removed from sampling schedule 4Q08.					—	—	—	—	—	—	—	—	—	—	—
	03/26/09	66.66	8.34	0.00	58.32	<50.0	<83	<420	<1.0	<1.0	<1.0	<1.0	<1.0	—	—	—	—	—

MTCA Method A Cleanup Levels:

1,000/800^a

500

500

5

1,000

700

1,000

20

—

—

—

—

—

NOTES:

Concentrations are in micrograms per liter (µg/L).

DTW = Depth to water in feet below top of casing.

TOC = Top of casing elevation in feet.

GW Elevation = Groundwater elevation in feet relative to top of casing elevation.

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, 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.

LPH = Liquid phase hydrocarbons.

— = Not Analyzed or Sampled

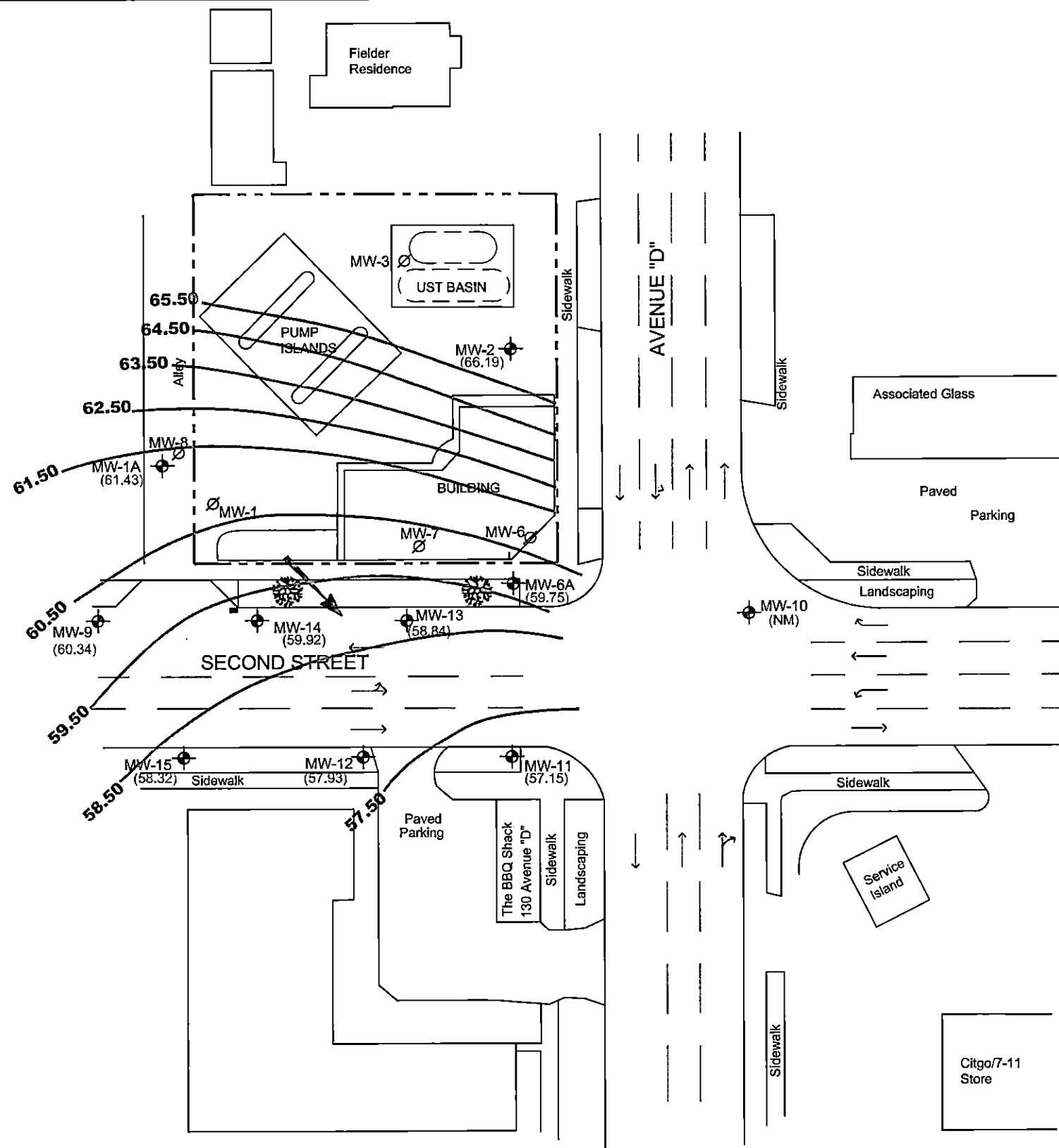
< = Less than the stated laboratory reporting limits

Bolded values equal or exceed Model Toxics Control Act (MTCA) Method A Cleanup Levels.

^a MTCA Method A levels for TPH-g are 1,000 µg/L when no Benzene is present and 800 µg/L when Benzene is present.

^b The laboratory reporting limit is greater than the MTCA Method A cleanup level

FIGURES



LEGEND

- SITE BOUNDARY
- MW-1 MONITORING WELL LOCATION AND ID
- UST UNDERGROUND STORAGE TANK
- Ø DESTROYED MONITORING WELL AND ID

GROUNDWATER

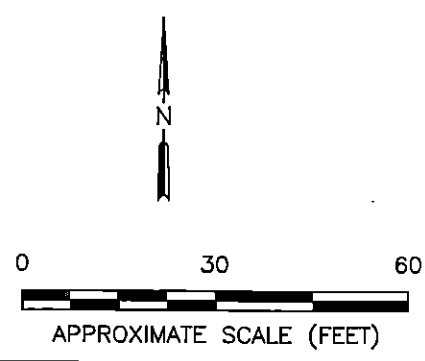
- (61.43) GROUNDWATER ELEVATION (FEET)
- ← INFERRED GROUNDWATER FLOW DIRECTION
- 58.5 GROUNDWATER ELEVATION CONTOUR (FEET)
- (NM) NOT MONITORED / NOT MEASURED

NOTES:

- ALL LOCATIONS ARE APPROXIMATE.
- CONTOUR INTERVAL = 1.0 FT

BASED ON MAPS PROVIDED BY GEOENGINEERS, INC. AND ENVIRONMENTAL RESOLUTIONS, INC.

No warranty is made by Stantec as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and/or information.



 Stantec 12034 134th COURT NE, SUITE 102 REDMOND, WASHINGTON PH (425) 372-1600/FAX (425) 372-1650	FOR: ConocoPhillips FACILITY NO. 254165 (RM&R 1234) 202 AVENUE D SNOHOMISH, WASHINGTON		SITE PLAN WITH GROUNDWATER ELEVATIONS MARCH 26, 2009		FIGURE: 1
	JOB NUMBER: 212301492 (254165)	DRAWN BY: DJH	CHECKED BY: TP	APPROVED BY: JR	DATE: 5/1/09

MW-2	6/16/08	9/22/08	12/8/08	3/26/09
TPH-G	<50	<50	--	<50.0
TPH-D	<76	<76	--	<82
TPH-O	<95	<95	--	<410
B	<0.5	<0.5	--	<1.0
T	<0.5	<0.7	--	<1.0
E	<0.5	<0.8	--	<1.0
X	<0.5	<0.8	--	<1.0
MTBE	--	--	--	<1.0

MW-1A	6/16/08	9/22/08	12/8/08	3/26/09
TPH-G	<50	<50	--	<50.0
TPH-D	<76	<76	--	<82
TPH-O	<95	<95	--	<410
B	<0.5	<0.5	--	<1.0
T	<0.5	<0.7	--	<1.0
E	<0.5	<0.8	--	<1.0
X	<0.5	<0.8	--	<1.0
MTBE	--	--	--	<1.0

MW-9	6/16/08	9/22/08	12/8/08	3/26/09
TPH-G	<50	<50	--	<50.0
TPH-D	<76	<75	--	<83
TPH-O	<95	<94	--	<420
B	<0.5	<0.5	--	<1.0
T	<0.5	<0.7	--	<1.0
E	<0.5	<0.8	--	<1.0
X	<0.5	<0.8	--	<1.0
MTBE	--	--	--	<1.0

MW-14	6/16/08	9/22/08	12/8/08	3/26/09
TPH-G	<50	190	--	<50.0
TPH-D	<75	<76	--	<82
TPH-O	<94	<94	--	<410
B	<0.5	<0.5	--	<1.0
T	<0.5	<0.7	--	<1.0
E	<0.5	<0.8	--	<1.0
X	<0.5	<0.8	--	<1.0
MTBE	--	--	--	<1.0

MW-13	6/16/08	9/22/08	12/8/08	3/26/09
TPH-G	160	250	--	271
TPH-D	<76	<76	--	<83
TPH-O	<95	<95	--	<410
B	<0.5	<0.5	--	<1.0
T	<0.5	<0.7	--	<1.0
E	<0.5	<0.8	--	<1.0
X	<0.5	<0.8	--	<1.0
MTBE	--	--	--	2.2

MW-15	6/16/08	9/22/08	12/8/08	3/26/09
TPH-G	<50	<50	--	<50.0
TPH-D	<75	<75	--	<83
TPH-O	<94	<94	--	<420
B	<0.5	<0.5	--	<1.0
T	<0.5	<0.7	--	<1.0
E	<0.5	<0.8	--	<1.0
X	<0.5	<0.8	--	<1.0
MTBE	--	--	--	<1.0

MW-12	6/16/08	9/22/08	12/8/08	3/26/09
TPH-G	350	1,600	<50	<50.0
TPH-D	<75	360	<29	<82
TPH-O	<94	140	<68	<410
B	<0.5	<0.5	<0.5	<1.0
T	<0.5	<0.7	<0.7	<1.0
E	1	0.8	<0.8	<1.0
X	<0.5	<0.8	<0.8	<1.0
MTBE	--	--	--	<1.0

MW-11	6/16/08	9/22/08	12/8/08	3/26/09
TPH-G	98	360	<50	<50.0
TPH-D	<76	<75	<29	<82
TPH-O	<95	<94	<69	<410
B	4	6	<0.5	<1.0
T	<0.5	<0.7	<0.7	<1.0
E	<0.5	1	<0.8	<1.0
X	<0.5	<0.8	<0.8	<1.0
MTBE	--	--	--	<1.0

MW-6A	6/16/08	9/22/08	12/8/08	3/26/09
TPH-G	840	1,600	1,800	124
TPH-D	140	96	130	110
TPH-O	<95	<95	<69	<420
B	<0.5	<0.5	<0.5	<1.0
T	1	1	1	<1.0
E	0.7	0.9	<0.8	<1.0
X	<0.5	<0.8	<0.8	<1.0
MTBE	--	--	--	<1.0

MW-10	6/16/08	9/22/08	12/8/08	3/26/09
TPH-G	--	1,200	--	--
TPH-D	--	82	--	--
TPH-O	--	<95	--	--
B	--	<0.5	--	--
T	--	<0.7	--	--
E	--	3	--	--
X	--	3	--	--
MTBE	--	--	--	--

LEGEND

- SITE BOUNDARY
- MW-1 MONITORING WELL LOCATION AND ID
- UST UNDERGROUND STORAGE TANK
- Ø DESTROYED MONITORING WELL AND ID
- ← INFERRED GROUNDWATER FLOW DIRECTION

ANALYTES

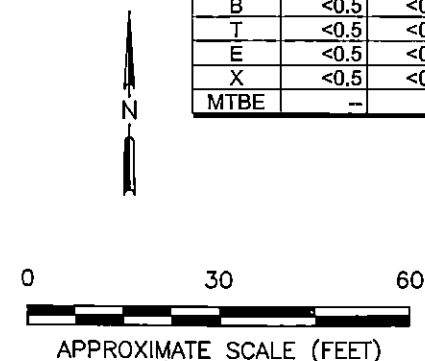
WELL ID	
TPH-G	GASOLINE RANGE HYDROCARBONS
TPH-D	DIESEL RANGE HYDROCARBONS
TPH-O	HEAVY OIL RANGE HYDROCARBONS
B	BENZENE
T	TOLUENE
E	ETHYL BENZENE
X	TOTAL XYLENES
MTBE	METHYL TERT-BUTYL ETHER

UNITS IN MICROGRAMS PER LITER (µg/L)

- < LESS THAN LABORATORY REPORTING LIMITS
- BOLD** ANALYTES DETECTED ABOVE THE METHOD "A" CLEANUP LEVEL
- NOT ANALYZED OR NOT APPLICABLE

NOTES:

- 1). ALL LOCATIONS ARE APPROXIMATE



BASED ON MAPS PROVIDED BY GEOENGINEERS, INC. AND ENVIRONMENTAL RESOLUTIONS, INC.

No warranty is made by Stantec as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and/or information.



12034 134th COURT NE, SUITE 102
REDMOND, WASHINGTON
PH (425) 372-1600/FAX (425) 372-1650

FOR:
ConocoPhillips
FACILITY NO. 254165 (RM&R 1234)
202 AVENUE D
SNOHOMISH, WASHINGTON

JOB NUMBER:
212301492 (254165)

DRAWN BY:
DJH

CHECKED BY:
TP

APPROVED BY:
JR

FIGURE:

2

DATE:
5/1/09

SITE PLAN WITH
ANALYTICAL RESULTS
MARCH 26, 2009

APPENDIX A
FIELD AND LABORATORY PROCEDURES

STANTEC MONITORING WELL GAUGING, PURGING AND SAMPLING PROCEDURES

Monitoring well purging and sampling was conducted based on USEPA approved (Puls and Barcelona, 1996) low-flow sampling techniques whenever possible.

Purging Procedures

- A. Using a decontaminated instrument (i.e., tape measure, continuity meter, or interface probe) measure the depth to groundwater in reference to the measuring point at the top of the casing. Measure the total depth of the well and diameter of the well casing to calculate the volume of water in the well casing.
- B. Based on previously obtained data, if a monitoring well is suspected of containing LPH concentrations, lower a transparent bailer into the well to evaluate the presence of a hydrocarbon sheen on the water table.
- C. Decontaminate the purge pump and/or PVC bailers by scrubbing in Alconox detergent solution, followed by a tap water rinse and then a de-ionized water rinse.
- D. Purge by low-flow pumping (less than 0.5 liters per minute) for approximately five minutes. Monitor the static water level in the well using a decontaminated instrument and adjust the pumping rate to maintain a minimal drawdown. If low-flow purging is not possible and bailing is used to purge the well, then a minimum of three well volumes will be removed. When purging 3 well volumes, parameters should be measured after each casing volume is removed. If the well goes dry, the procedure listed in step E2 (below) should be followed.
- E. Conduct field measurements (i.e., pH, specific conductivity, temperature, and oxidation-reduction potential) note clarity, color, turbidity, and odor of purge water, and measure depth to groundwater.
 1. If the well has not been purged dry and drawdown is minimal, continue to pump and conduct field measurements (including depth to water) again every three to five minutes during purging.
 - a) If the first through third series of measurements vary by less than 10 percent, the well has been adequately purged. If bailers are used to purge the well, then the water level is allowed to recover to 80 percent of its static condition, or for two hours, whichever comes first prior to beginning the sampling procedure.
 - b) If the measurements vary by 10 percent or greater, repeat Step E1 above.
 - c) If a minimum of three parameters cannot be measured during purging and or drawdown cannot be controlled to minimal, remove three well volumes with a bailer prior to sampling.
 2. If the well has been purged dry, measure the water level and allow the well to recharge to 80 percent, or for two hours, whichever occurs first. Calculate the percent recovery, and begin the sampling procedure.

Sampling Procedures

- Use the pump and a clean, dedicated section of tubing to collect the groundwater sample from the screened interval of the water column. If the pump cannot be used, collect the water sample with a clean, dedicated polyethylene disposable bailer.
- Transfer the groundwater sample into the appropriate container(s). Where applicable, some containers are completely filled to achieve zero headspace. Label the samples according to location and date of collection.
- Enter the samples into Chain-of-Custody and preserve on ice until delivery to the analytical laboratory. Complete the Well Development or Purging/Sampling Log to be stored in the project file.

Reference:

Puls, R.W., and Barcelona M.J., 1996. EPA Ground Water Issue Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures, EPA/540/S-95/504.

APPENDIX B
FIELD DATA SHEETS

SITE VISITATION REPORT

1Q09 - CP 254165 (RM&R 01234) Snohomish, Washington

Name(s) David Reitz/Susan Payne Date: 03/26/09
 Arrival Time: 0800 Departure Time: 1700

Time of Arrival Call-In: 0820
 Time of Departure Call-In: 1645
 Who did you call? Relax

DRUM INVENTORY

<u>1</u>	WATER	<u> </u>	CARBON	TOTAL OPEN TOP	<u>1</u>
<u> </u>	SOIL	<u> </u>	EMPTY	TOTAL BUNG TOP	<u> </u>

HEALTH AND SAFETY ASSESSMENT

Appropriate P.P.E.
Review HASP. PT.W. J.S.A.
Set-up Decon.

DESCRIPTION OF ACTIVITIES ONSITE AND NOTES

0800 Arrive on site. Check-in with site contact to inform of presence. Purchase ice. Set-up Decon. station.
 0820 Call-in to office to inform of presence. Meet with A. Hicks (TCS) traffic control, & J. Payne (Stantec) safety observation. Perform site-walk. Don appropriate P.P.E.
 0835 Conduct tailgate safety meeting.
 0900 Initiate 1Q09 GWM sample procedures in street. (Gauge & sample 9 wells) Also provide well condition report with photographs.
 1110 Complete wells in street. Initiate gauging of remaining wells.
 1130 A. Hicks & J. Payne off-site. Re-start 1Q09 GWM sampling after gauging of physical measurements.
 1300 Go to lunch.
 1330 Continue 1Q09 GWM sample procedures.
 1610 Complete 1Q09 GWM sample procedures. Decon. Equipment. Pack sample coolers. Label drum.
 1630 Release purge water/cinase solutions into staged drum.
 1640 Load equipment into truck. Call-in to office & check-in with site contact to inform of departure.
 Complete daily documentation.
 1700 Depart job site.

03/26/09

STANTEC Consulting Corporation
HYDROLOGIC DATA SHEET

Gauge Date: 03 / 26 / 09

Project Name: CP RM&R 01234

Field Technician: David Reitz

Project Number: 01CP.01234.44/8504

DTP = Depth to Free Product (FP or NAPL) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

Flow through cell calibrated Y X N

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y X N

[illegible]

STANTEC Consulting Corporation

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 01CP.01234.44

PURGED BY: David Reitz

WELL I.D.: MW-13

CLIENT NAME: ConocoPhillips

SAMPLED BY: David Reitz

SAMPLE I.D.: MW-13

LOCATION: 202 Avenue D, Snohomish, WA 98290

DATE PURGED 03/26/09

START (2400hr) 0910

END (2400hr) 0950

DATE SAMPLED 03/26/09

SAMPLE TIME (2400hr) 0930

LOW-FLOW USED x

SAMPLE TYPE: Groundwater x

Surface Water

Treatment Effluent

Other

CASING DIAMETER:

2" x

3"

4"

5"

6"

8"

Other

Casing Volume: (liters per foot)

(0.64)

(1.44)

(2.45)

(3.86)

(5.68)

(9.84)

()

DEPTH TO BOTTOM (feet) = 15.10

DEPTH TO WATER (feet) = 8.75

WATER COLUMN HEIGHT (feet) = 6.35

ACTUAL PURGE (L) = 3.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME ML	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
<u>03/26/09</u>	<u>0915</u>	<u>800</u>	<u>11.2</u>	<u>0.460</u>	<u>6.41</u>	<u>clr</u>
	<u>0918</u>	<u>500</u>	<u>11.3</u>	<u>0.468</u>	<u>6.45</u>	<u>clr</u>
	<u>0921</u>	<u>500</u>	<u>10.7</u>	<u>0.482</u>	<u>6.58</u>	<u>clr</u>
	<u>0924</u>	<u>500</u>	<u>10.5</u>	<u>0.482</u>	<u>6.60</u>	<u>clr</u>
	<u>0927</u>	<u>500</u>	<u>10.5</u>	<u>0.477</u>	<u>6.60</u>	<u>clr</u>
	<u>0930</u>	<u>500</u>				
	<u>0</u>					

Calculated Variance of Final Three Samples:

0.2

0.005

0.02

Acceptable Variance Limits:

≤10%

≤3%

≤0.1

DEPTH TO PURGE INTAKE DURING PURGE: 11.00

SAMPLE DTW: 8.89

ANTICIPATED PURGE INTAKE DEPTH: 11.00

ANALYSES:

TPH-g, TPH-d

BTEX & MTBE by 8260B

SAMPLE VESSEL / PRESERVATIVE: HCl

PURGING EQUIPMENT:

Horiba water quality monitor
Interface probe Peristaltic pump

SAMPLING EQUIPMENT:

Horiba water quality monitor
Interface probe Peristaltic pump

Flow Through Cell Disconnected Prior to Sample Collection?:

YES x

NO

WELL PAD CONDITION: Fair

WELL CASING CONDITION: Fair

WELL VAULT CONDITION: Fair

SEAL PRESENT?: YES

BOLTS PRESENT?: YES

WELL INTEGRITY: Fair

WELL TAG: YES

LOCK#: YES

REMARKS:

SIGNATURE: [Signature]

WATER SAMPLE FIELD DATA SHEET

LOCATION: 202 Avenue D, Snohomish, WA 98290

Other

Other

(

ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

[illegible]

SAMPLE DTW: 8.37

BTEX & MTBE by 8260B

SAMPLE VESSEL / PRESERVATIVE: HCl

PURGING EQUIPMENT:

Horiba water quality monitor
interface probe Peristaltic pump

SAMPLING EQUIPMENT:

Horiba water quality monitor
Interface probe Peristaltic pump

NC

WELL CASING CONDITION: *Fair*

BOLTS PRESENT?: ☒

LOCK#: YB

REMARKS:

SIGNATURE:

WATER SAMPLE FIELD DATA SHEET

Page 1 of 1

WATER SAMPLE FIELD DATA SHEET

Page 1 of 1

STANTEC Consulting Corporation

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 01CP.01234.44

PURGED BY: David Reitz

WELL I.D.: MW-11

CLIENT NAME: ConocoPhillips

SAMPLED BY: David Reitz

SAMPLE I.D.: MW-11

LOCATION: 202 Avenue D, Snohomish, WA 98290

DATE PURGED 03/26/09 START (2400hr) 1330 END (2400hr) 1405

DATE SAMPLED 03/26/09 SAMPLE TIME (2400hr) 1345 LOW-FLOW USED x

SAMPLE TYPE: Groundwater x Surface Water Treatment Effluent Other

CASING DIAMETER: 2" x 3" 4" 5" 6" 8" Other
Casing Volume: (liters per foot) (0.64) (1.44) (2.45) (3.86) (5.68) (9.84) ()

DEPTH TO BOTTOM (feet) = 14.80

DEPTH TO WATER (feet) = 8.37

WATER COLUMN HEIGHT (feet) = 6.43

ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (ML)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
<u>03/26/09</u>	<u>1335</u>	<u>800</u>	<u>11.2</u>	<u>0.439</u>	<u>6.72</u>	<u>Clr</u>
<u>↓</u>	<u>1338</u>	<u>500</u>	<u>11.2</u>	<u>0.437</u>	<u>6.70</u>	<u>Clr</u>
<u>↓</u>	<u>1341</u>	<u>500</u>	<u>11.2</u>	<u>0.438</u>	<u>6.68</u>	<u>Clr</u>
<u>↓</u>	<u>1344</u>	<u>500</u>	<u>11.2</u>	<u>0.438</u>	<u>6.67</u>	<u>Clr</u>

03/26/09

Calculated Variance of Final Three Samples:

Acceptable Variance Limits:

0

≤10%

0.001

≤3%

0.03

≤0.1

DEPTH TO PURGE INTAKE DURING PURGE: 13.00

SAMPLE DTW: 8.47

ANTICIPATED PURGE INTAKE DEPTH: 13.00 ANALYSES:

TPH-g, TPH-d

BTEX & MTBE by 8260B

SAMPLE VESSEL / PRESERVATIVE:

HCl

PURGING EQUIPMENT:

Horiba water quality monitor
Interface probe Peristaltic pump

SAMPLING EQUIPMENT:

Horiba water quality monitor
Interface probe Peristaltic pump

Flow Through Cell Disconnected Prior to Sample Collection?:

YES x

NO

WELL PAD CONDITION: Fair

WELL CASING CONDITION: Fair

WELL VAULT CONDITION: Fair

SEAL PRESENT?: yes

BOLTS PRESENT?: yes

WELL INTEGRITY: Fair

WELL TAG: yes

LOCK#: yes

REMARKS:

SIGNATURE: David Reitz

WATER SAMPLE FIELD DATA SHEET

Page 1 of 1

WATER SAMPLE FIELD DATA SHEET

Page 1 of 1

WATER SAMPLE FIELD DATA SHEET

Page 1 of 1

INVOICE REMITTANCE ADDRESS:	Stantec Attn: Chris Gdak 12034 134th CT; Suite 102 Redmond, WA 98052	Purchase Order #	DATE: <u>03/26/09</u> PAGE: <u>1</u> of <u>2</u>
		ConocoPhillips AOC#	
		01234	

Stantec
Attn: Chris Gdak
12034 134th CT; Suite 102
Redmond, WA 98052

ConocoPhillips AOC#

01234

DATE: 03/26/08
PAGE: 1 of 2

SAMPLING COMPANY: STANTEC		Valid Value ID:		CONOCOPHILLIPS SITE NUMBER AOC 01234		GLOBAL ID NO.:	
ADDRESS: 12034 134th Court NE, Redmond, WA 98052				SITE ADDRESS (Street and City): 202 Avenue D, Snohomish, WA 98290		ConocoPhillips Manager Jim Trotter	
PROJECT CONTACT (Hardcopy or PDF Report to): Chris Gdak				EDF DELIVERABLE TO (RP or Designee):		PHONE NO.:	
TELEPHONE: (425) 372-1662		FAX: (425) 372-1650		E-MAIL: chris.gdak@stantec.com		E-MAIL:	
						LAB USE ONLY:	

SAMPLER NAME(S) (Print): <i>David Reitz</i>	CONSULTANT PROJECT NUMBER 01CP.01234.44
TURNAROUND TIME (CALENDAR DAYS): ☒ 14 DAYS ☒ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS	

SAMPLER NAME(S) (Print): <i>David Reitz</i>	CONSULTANT PROJECT NUMBER 01CP.01234.44
TURNAROUND TIME (CALENDAR DAYS): ☒ 14 DAYS ☒ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS	

SPECIAL INSTRUCTIONS OR NOTES:	CHECK BOX IF EDD IS NEEDED	☒
--------------------------------	----------------------------	-------------------------------------

REQUESTED ANALYSES

FIELD NOTES:

Container/Preservative
or PID Readings
or Laboratory Notes

* Field Point name only required if different from Sample ID

[illegible]

Relinquished by: (Signature)	Received by: (Signature)
------------------------------	--------------------------

Attest: _____
 Jamis Paine 3/27/09 250am

Date	Time
------	------

40-mL VOAs, preserved with HCl

		Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)		Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)		Received by: (Signature)	Date:	Time:

APPENDIX C
CERTIFIED LABORATORY ANALYTICAL REPORT
AND CHAIN-OF-CUSTODY DOCUMENTATION

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
Phone: (206)767-5060
Fax: (206)767-5063

Client: Stantec - Conoco Phillips
12034 134th Ct. NE Suite 102
Redmond, WA 98052

ATTN: Chris Gdak

Project Name: **Conoco Phillips Site# 01234**

SDG Number: **CPWA0914**

Project Number: **01CP.01234.44**

Date Received: **3/27/2009 10:00:00AM**

Work Description: **Site# 01234**

Date Reported: **04/09/2009**

Dear Chris Gdak,

Enclosed are the analytical results for the sample(s) received by the laboratory on March 27, 2009. The results relate only to the samples included in this report. Unless otherwise instructed all samples with the exception of samples which are consumed during the analysis, such as microbiological samples, will be disposed of on or after July 9, 2009. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

If you have any question concerning the report, please feel free to contact me.

Respectfully submitted,
Pace Analytical Services, Inc.

Jennifer Gross

Pace Analytical Services, Inc.

Sample Summary

Pace Analytical Services, Inc.
940 South Hamey
Seattle, WA 98108
Phone: (206)767-5060
Fax: (206)767-5063

Project:	Conoco Phillips Site# 01234	SDG Number:	CPWA0914
Project Number:	01CP.01234.44	Project Manager:	Chris Gdak

Sample Identification:

Sample Description	Lab Sample ID	Collection Date/Time	Type
MW-1A	CPWA0914-001	03/26/2009 11:45	Water
MW-2	CPWA0914-002	03/26/2009 12:30	Water
MW-6A	CPWA0914-003	03/26/2009 15:50	Water
MW-9	CPWA0914-004	03/26/2009 10:50	Water
MW-11	CPWA0914-005	03/26/2009 13:45	Water
MW-12	CPWA0914-006	03/26/2009 14:25	Water
MW-13	CPWA0914-007	03/26/2009 09:30	Water
MW-14	CPWA0914-008	03/26/2009 10:10	Water
MW-15	CPWA0914-009	03/26/2009 15:05	Water
QCTB	CPWA0914-010	03/26/2009 15:05	Water

Pace Analytical Services, Inc.

Pace Analytical Services, Inc.

940 South Harney

Seattle, WA 98108

Phone: (206)767-5060

Fax: (206)767-5063

Test Request Summary

Project: Conoco Phillips Site# 01234

SDG Number: CPWA0914

Pace Project No.: 01CP.01234.44

Project Manager: Chris Gdak

Samples	Methods									
Client Sample ID	8260B 1	NWTPH- 2	NWTPH- 3							
MW-1A	X	X	X							
MW-2	X	X	X							
MW-6A	X	X	X							
MW-9	X	X	X							
MW-11	X	X	X							
MW-12	X	X	X							
MW-13	X	X	X							
MW-14	X	X	X							
MW-15	X	X	X							
QCTB	X	X								

Determinations:

1 = 8260-1 VOAs BTEX+MTBE, in water

2 = NWTPH Gx (Water)

3 = NWTPH DX (Water)

Pace Analytical Services, Inc.

Analytical Results

Pace Analytical Services, Inc.

940 South Harney

Seattle, WA 98108

Phone: (206)767-5060

Fax: (206)767-5063

Project:	Conoco Phillips Site# 01234	SDG Number:	CPWA0914
Project Number:	01CP.01234.44	Project Manager:	Chris Gdak
Client Sample ID:	MW-1A	Matrix:	Water
Collected On:	3/26/09 11:45	Lab Sample ID:	CPWA0914-001
Received On:	3/27/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Purgeable Organic Compounds by GC/MS				Methods (Preparation Analysis): 5030B 8260B					
Benzene	ND	ug/L	1		1.0	Q39560	03/28/2009	03/28/2009	
Ethylbenzene	ND	ug/L	1		1.0	Q39560	03/28/2009	03/28/2009	
Methyl tert-butyl ether	ND	ug/L	1		1.0	Q39560	03/28/2009	03/28/2009	
Toluene	ND	ug/L	1		1.0	Q39560	03/28/2009	03/28/2009	
Xylenes, Total	ND	ug/L	1		1.0	Q39560	03/28/2009	03/28/2009	
<i>Surrogates:</i>									
4-Bromofluorobenzene	114	% Rec	1		72-128	Q39560	03/28/2009	03/28/2009	
Dibromofluoromethane	102	% Rec	1		76-127	Q39560	03/28/2009	03/28/2009	
1,2-Dichloroethane-d4	94	% Rec	1		66-133	Q39560	03/28/2009	03/28/2009	
Toluene-d8	103	% Rec	1		75-130	Q39560	03/28/2009	03/28/2009	
NWTPH Diesel				Methods (Preparation Analysis): 3510C NWTPH-D					
Diesel Range Organics	ND	ug/L	1		82	Q39590	03/30/2009	04/02/2009	
Oil Range Organics	ND	ug/L	1		410	Q39590	03/30/2009	04/02/2009	
<i>Surrogates:</i>									
o-Terphenyl	79	% Rec	1		50-150	Q39590	03/30/2009	04/02/2009	
NWTPH Gas				Methods (Preparation Analysis): 5030B NWTPH-G					
Gasoline Range Organics	ND	ug/L	1		50.0	Q39753	04/03/2009	04/03/2009	
<i>Surrogates:</i>									
4-Bromofluorobenzene	87	% Rec	1		53-114	Q39753	04/03/2009	04/03/2009	
Trifluorotoluene	88	% Rec	1		51-142	Q39753	04/03/2009	04/03/2009	

Pace Analytical Services, Inc.

Analytical Results

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
Phone: (206)767-5060
Fax: (206)767-5063

Project:	Conoco Phillips Site# 01234	SDG Number:	CPWA0914
Project Number:	01CP.01234.44	Project Manager:	Chris Gdak
Client Sample ID:	MW-2	Matrix:	Water
Collected On:	3/26/09 12:30	Lab Sample ID:	CPWA0914-002
Received On:	3/27/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Purgeable Organic Compounds by GC/MS				Methods (Preparation Analysis): 5030B 8260B					
Benzene	ND	ug/L	1		1.0	Q39560	03/28/2009	03/28/2009	
Ethylbenzene	ND	ug/L	1		1.0	Q39560	03/28/2009	03/28/2009	
Methyl tert-butyl ether	ND	ug/L	1		1.0	Q39560	03/28/2009	03/28/2009	
Toluene	ND	ug/L	1		1.0	Q39560	03/28/2009	03/28/2009	
Xylenes, Total	ND	ug/L	1		1.0	Q39560	03/28/2009	03/28/2009	
<i>Surrogates:</i>									
4-Bromofluorobenzene	117	% Rec	1		72-128	Q39560	03/28/2009	03/28/2009	
Dibromofluoromethane	102	% Rec	1		76-127	Q39560	03/28/2009	03/28/2009	
1,2-Dichloroethane-d4	93	% Rec	1		66-133	Q39560	03/28/2009	03/28/2009	
Toluene-d8	104	% Rec	1		75-130	Q39560	03/28/2009	03/28/2009	
NWTPH Diesel				Methods (Preparation Analysis): 3510C NWTPH-D					
Diesel Range Organics	ND	ug/L	1		82	Q39590	03/30/2009	04/02/2009	
Oil Range Organics	ND	ug/L	1		410	Q39590	03/30/2009	04/02/2009	
<i>Surrogates:</i>									
o-Terphenyl	65	% Rec	1		50-150	Q39590	03/30/2009	04/02/2009	
NWTPH Gas				Methods (Preparation Analysis): 5030B NWTPH-G					
Gasoline Range Organics	ND	ug/L	1		50.0	Q39753	04/03/2009	04/03/2009	
<i>Surrogates:</i>									
4-Bromofluorobenzene	93	% Rec	1		53-114	Q39753	04/03/2009	04/03/2009	
Trifluorotoluene	94	% Rec	1		51-142	Q39753	04/03/2009	04/03/2009	

Pace Analytical Services, Inc.

Analytical Results

Pace Analytical Services, Inc.

940 South Harney

Seattle, WA 98108

Phone: (206)767-5060

Fax: (206)767-5063

Project:	Conoco Phillips Site# 01234	SDG Number:	CPWA0914
Project Number:	01CP.01234.44	Project Manager:	Chris Gdak
Client Sample ID:	MW-6A	Matrix:	Water
Collected On:	3/26/09 15:50	Lab Sample ID:	CPWA0914-003
Received On:	3/27/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Purgeable Organic Compounds by GC/MS				Methods (Preparation Analysis): 5030B 8260B					
Benzene	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
Ethylbenzene	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
Methyl tert-butyl ether	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
Toluene	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
Xylenes, Total	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
<i>Surrogates:</i>									
4-Bromofluorobenzene	125	% Rec	1		72-128	Q39567	03/28/2009	03/28/2009	
Dibromofluoromethane	105	% Rec	1		76-127	Q39567	03/28/2009	03/28/2009	
1,2-Dichloroethane-d4	99	% Rec	1		66-133	Q39567	03/28/2009	03/28/2009	
Toluene-d8	98	% Rec	1		75-130	Q39567	03/28/2009	03/28/2009	
NWTPH Diesel				Methods (Preparation Analysis): 3510C NWTPH-D					
Diesel Range Organics	110	ug/L	1		83	Q39590	03/30/2009	04/02/2009	
Oil Range Organics	ND	ug/L	1		420	Q39590	03/30/2009	04/02/2009	
<i>Surrogates:</i>									
o-Terphenyl	81	% Rec	1		50-150	Q39590	03/30/2009	04/02/2009	
NWTPH Gas				Methods (Preparation Analysis): 5030B NWTPH-G					
Gasoline Range Organics	124	ug/L	1		50.0	Q39753	04/03/2009	04/03/2009	
<i>Surrogates:</i>									
4-Bromofluorobenzene	94	% Rec	1		53-114	Q39753	04/03/2009	04/03/2009	
Trifluorotoluene	97	% Rec	1		51-142	Q39753	04/03/2009	04/03/2009	

Pace Analytical Services, Inc.

Analytical Results

Pace Analytical Services, Inc.

940 South Harney

Seattle, WA 98108

Phone: (206)767-5060

Fax: (206)767-5063

Project:	Conoco Phillips Site# 01234	SDG Number:	CPWA0914
Project Number:	01CP.01234.44	Project Manager:	Chris Gdak
Client Sample ID:	MW-9	Matrix:	Water
Collected On:	3/26/09 10:50	Lab Sample ID:	CPWA0914-004
Received On:	3/27/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Purgeable Organic Compounds by GC/MS				Methods (Preparation Analysis): 5030B 8260B					
Benzene	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
Ethylbenzene	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
Methyl tert-butyl ether	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
Toluene	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
Xylenes, Total	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
<i>Surrogates:</i>									
4-Bromofluorobenzene	104	% Rec	1		72-128	Q39567	03/28/2009	03/28/2009	
Dibromofluoromethane	107	% Rec	1		76-127	Q39567	03/28/2009	03/28/2009	
1,2-Dichloroethane-d4	94	% Rec	1		66-133	Q39567	03/28/2009	03/28/2009	
Toluene-d8	97	% Rec	1		75-130	Q39567	03/28/2009	03/28/2009	
NWTPH Diesel				Methods (Preparation Analysis): 3510C NWTPH-D					
Diesel Range Organics	ND	ug/L	1		83	Q39590	03/30/2009	04/02/2009	
Oil Range Organics	ND	ug/L	1		420	Q39590	03/30/2009	04/02/2009	
<i>Surrogates:</i>									
o-Terphenyl	75	% Rec	1		50-150	Q39590	03/30/2009	04/02/2009	
NWTPH Gas				Methods (Preparation Analysis): 5030B NWTPH-G					
Gasoline Range Organics	ND	ug/L	1		50.0	Q39753	04/03/2009	04/03/2009	
<i>Surrogates:</i>									
4-Bromofluorobenzene	90	% Rec	1		53-114	Q39753	04/03/2009	04/03/2009	
Trifluorotoluene	91	% Rec	1		51-142	Q39753	04/03/2009	04/03/2009	

Pace Analytical Services, Inc.

Analytical Results

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
Phone: (206)767-5060
Fax: (206)767-5063

Project:	Conoco Phillips Site# 01234	SDG Number:	CPWA0914
Project Number:	01CP.01234.44	Project Manager:	Chris Gdak
Client Sample ID:	MW-11	Matrix:	Water
Collected On:	3/26/09 13:45	Lab Sample ID:	CPWA0914-005
Received On:	3/27/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Purgeable Organic Compounds by GC/MS				Methods (Preparation Analysis): 5030B 8260B					
Benzene	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
Ethylbenzene	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
Methyl tert-butyl ether	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
Toluene	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
Xylenes, Total	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
<i>Surrogates:</i>									
4-Bromofluorobenzene	105	% Rec	1		72-128	Q39567	03/28/2009	03/28/2009	
Dibromofluoromethane	109	% Rec	1		76-127	Q39567	03/28/2009	03/28/2009	
1,2-Dichloroethane-d4	97	% Rec	1		66-133	Q39567	03/28/2009	03/28/2009	
Toluene-d8	97	% Rec	1		75-130	Q39567	03/28/2009	03/28/2009	
NWTPH Diesel				Methods (Preparation Analysis): 3510C NWTPH-D					
Diesel Range Organics	ND	ug/L	1		82	Q39590	03/30/2009	04/02/2009	
Oil Range Organics	ND	ug/L	1		410	Q39590	03/30/2009	04/02/2009	
<i>Surrogates:</i>									
o-Terphenyl	77	% Rec	1		50-150	Q39590	03/30/2009	04/02/2009	
NWTPH Gas				Methods (Preparation Analysis): 5030B NWTPH-G					
Gasoline Range Organics	ND	ug/L	1		50.0	Q39753	04/03/2009	04/03/2009	
<i>Surrogates:</i>									
4-Bromofluorobenzene	99	% Rec	1		53-114	Q39753	04/03/2009	04/03/2009	
Trifluorotoluene	99	% Rec	1		51-142	Q39753	04/03/2009	04/03/2009	

Pace Analytical Services, Inc.

Analytical Results

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
Phone: (206)767-5060
Fax: (206)767-5063

Project:	Conoco Phillips Site# 01234	SDG Number:	CPWA0914
Project Number:	01CP.01234.44	Project Manager:	Chris Gdak
Client Sample ID:	MW-12	Matrix:	Water
Collected On:	3/26/09 14:25	Lab Sample ID:	CPWA0914-006
Received On:	3/27/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Purgeable Organic Compounds by GC/MS				Methods (Preparation Analysis): 5030B 8260B					
Benzene	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
Ethylbenzene	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
Methyl tert-butyl ether	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
Toluene	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
Xylenes, Total	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
<i>Surrogates:</i>									
4-Bromofluorobenzene	104	% Rec	1		72-128	Q39567	03/28/2009	03/28/2009	
Dibromofluoromethane	110	% Rec	1		76-127	Q39567	03/28/2009	03/28/2009	
1,2-Dichloroethane-d4	98	% Rec	1		66-133	Q39567	03/28/2009	03/28/2009	
Toluene-d8	97	% Rec	1		75-130	Q39567	03/28/2009	03/28/2009	
NWTPH Diesel				Methods (Preparation Analysis): 3510C NWTPH-D					
Diesel Range Organics	ND	ug/L	1		82	Q39590	03/30/2009	04/02/2009	
Oil Range Organics	ND	ug/L	1		410	Q39590	03/30/2009	04/02/2009	
<i>Surrogates:</i>									
o-Terphenyl	55	% Rec	1		50-150	Q39590	03/30/2009	04/02/2009	
NWTPH Gas				Methods (Preparation Analysis): 5030B NWTPH-G					
Gasoline Range Organics	ND	ug/L	1		50.0	Q39701	04/02/2009	04/02/2009	
<i>Surrogates:</i>									
4-Bromofluorobenzene	61	% Rec	1		53-114	Q39701	04/02/2009	04/02/2009	
Trifluorotoluene	67	% Rec	1		51-142	Q39701	04/02/2009	04/02/2009	

Pace Analytical Services, Inc.

Analytical Results

Pace Analytical Services, Inc.

940 South Harney

Seattle, WA 98108

Phone: (206)767-5060

Fax: (206)767-5063

Project:	Conoco Phillips Site# 01234	SDG Number:	CPWA0914
Project Number:	01CP.01234.44	Project Manager:	Chris Gdak
Client Sample ID:	MW-13	Matrix:	Water
Collected On:	3/26/09 9:30	Lab Sample ID:	CPWA0914-007
Received On:	3/27/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Purgeable Organic Compounds by GC/MS				Methods (Preparation Analysis): 5030B 8260B					
Benzene	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
Ethylbenzene	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
Methyl tert-butyl ether	2.2	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
Toluene	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
Xylenes, Total	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
<i>Surrogates:</i>									
4-Bromofluorobenzene	112	% Rec	1		72-128	Q39567	03/28/2009	03/28/2009	
Dibromofluoromethane	105	% Rec	1		76-127	Q39567	03/28/2009	03/28/2009	
1,2-Dichloroethane-d4	96	% Rec	1		66-133	Q39567	03/28/2009	03/28/2009	
Toluene-d8	97	% Rec	1		75-130	Q39567	03/28/2009	03/28/2009	
NWTPH Diesel				Methods (Preparation Analysis): 3510C NWTPH-D					
Diesel Range Organics	ND	ug/L	1		83	Q39590	03/30/2009	04/02/2009	
Oil Range Organics	ND	ug/L	1		410	Q39590	03/30/2009	04/02/2009	
<i>Surrogates:</i>									
o-Terphenyl	81	% Rec	1		50-150	Q39590	03/30/2009	04/02/2009	
NWTPH Gas				Methods (Preparation Analysis): 5030B NWTPH-G					
Gasoline Range Organics	271	ug/L	1		50.0	Q39701	04/02/2009	04/02/2009	
<i>Surrogates:</i>									
4-Bromofluorobenzene	76	% Rec	1		53-114	Q39701	04/02/2009	04/02/2009	
Trifluorotoluene	73	% Rec	1		51-142	Q39701	04/02/2009	04/02/2009	

Pace Analytical Services, Inc.

Analytical Results

Pace Analytical Services, Inc.

940 South Harney

Seattle, WA 98108

Phone: (206)767-5060

Fax: (206)767-5063

Project:	Conoco Phillips Site# 01234	SDG Number:	CPWA0914
Project Number:	01CP.01234.44	Project Manager:	Chris Gdak
Client Sample ID:	MW-14	Matrix:	Water
Collected On:	3/26/09 10:10	Lab Sample ID:	CPWA0914-008
Received On:	3/27/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Purgeable Organic Compounds by GC/MS				Methods (Preparation Analysis): 5030B 8260B					
Benzene	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
Ethylbenzene	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
Methyl tert-butyl ether	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
Toluene	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
Xylenes, Total	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
<i>Surrogates:</i>									
4-Bromofluorobenzene	105	% Rec	1		72-128	Q39567	03/28/2009	03/28/2009	
Dibromofluoromethane	108	% Rec	1		76-127	Q39567	03/28/2009	03/28/2009	
1,2-Dichloroethane-d4	98	% Rec	1		66-133	Q39567	03/28/2009	03/28/2009	
Toluene-d8	98	% Rec	1		75-130	Q39567	03/28/2009	03/28/2009	
NWTPH Diesel				Methods (Preparation Analysis): 3510C NWTPH-D					
Diesel Range Organics	ND	ug/L	1		82	Q39590	03/30/2009	04/02/2009	
Oil Range Organics	ND	ug/L	1		410	Q39590	03/30/2009	04/02/2009	
<i>Surrogates:</i>									
o-Terphenyl	75	% Rec	1		50-150	Q39590	03/30/2009	04/02/2009	
NWTPH Gas				Methods (Preparation Analysis): 5030B NWTPH-G					
Gasoline Range Organics	ND	ug/L	1		50.0	Q39701	04/02/2009	04/02/2009	
<i>Surrogates:</i>									
4-Bromofluorobenzene	79	% Rec	1		53-114	Q39701	04/02/2009	04/02/2009	
Trifluorotoluene	82	% Rec	1		51-142	Q39701	04/02/2009	04/02/2009	

Pace Analytical Services, Inc.

Analytical Results

Pace Analytical Services, Inc.

940 South Harney

Seattle, WA 98108

Phone: (206)767-5060

Fax: (206)767-5063

Project:	Conoco Phillips Site# 01234	SDG Number:	CPWA0914
Project Number:	01CP.01234.44	Project Manager:	Chris Gdak
Client Sample ID:	MW-15	Matrix:	Water
Collected On:	3/26/09 15:05	Lab Sample ID:	CPWA0914-009
Received On:	3/27/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Purgeable Organic Compounds by GC/MS				Methods (Preparation Analysis): 5030B 8260B					
Benzene	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
Ethylbenzene	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
Methyl tert-butyl ether	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
Toluene	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
Xylenes, Total	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
<i>Surrogates:</i>									
4-Bromofluorobenzene	106	% Rec	1		72-128	Q39567	03/28/2009	03/28/2009	
Dibromofluoromethane	108	% Rec	1		76-127	Q39567	03/28/2009	03/28/2009	
1,2-Dichloroethane-d4	97	% Rec	1		66-133	Q39567	03/28/2009	03/28/2009	
Toluene-d8	98	% Rec	1		75-130	Q39567	03/28/2009	03/28/2009	
NWTPH Diesel				Methods (Preparation Analysis): 3510C NWTPH-D					
Diesel Range Organics	ND	ug/L	1		83	Q39590	03/30/2009	04/02/2009	
Oil Range Organics	ND	ug/L	1		420	Q39590	03/30/2009	04/02/2009	
<i>Surrogates:</i>									
o-Terphenyl	68	% Rec	1		50-150	Q39590	03/30/2009	04/02/2009	
NWTPH Gas				Methods (Preparation Analysis): 5030B NWTPH-G					
Gasoline Range Organics	ND	ug/L	1		50.0	Q39701	04/02/2009	04/02/2009	
<i>Surrogates:</i>									
4-Bromofluorobenzene	84	% Rec	1		53-114	Q39701	04/02/2009	04/02/2009	
Trifluorotoluene	87	% Rec	1		51-142	Q39701	04/02/2009	04/02/2009	

Pace Analytical Services, Inc.

Analytical Results

Pace Analytical Services, Inc.

940 South Harney

Seattle, WA 98108

Phone: (206)767-5060

Fax: (206)767-5063

Project:	Conoco Phillips Site# 01234	SDG Number:	CPWA0914
Project Number:	01CP.01234.44	Project Manager:	Chris Gdak
Client Sample ID:	QCTB	Matrix:	Water
Collected On:	3/26/09 15:05	Lab Sample ID:	CPWA0914-010
Received On:	3/27/09 10:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Purgeable Organic Compounds by GC/MS				Methods (Preparation Analysis): 5030B 8260B					
Benzene	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
Ethylbenzene	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
Methyl tert-butyl ether	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
Toluene	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
Xylenes, Total	ND	ug/L	1		1.0	Q39567	03/28/2009	03/28/2009	
<i>Surrogates:</i>									
4-Bromofluorobenzene	103	% Rec	1		72-128	Q39567	03/28/2009	03/28/2009	
Dibromofluoromethane	112	% Rec	1		76-127	Q39567	03/28/2009	03/28/2009	
1,2-Dichloroethane-d4	101	% Rec	1		66-133	Q39567	03/28/2009	03/28/2009	
Toluene-d8	97	% Rec	1		75-130	Q39567	03/28/2009	03/28/2009	
NWTPH Gas				Methods (Preparation Analysis): 5030B NWTPH-G					
Gasoline Range Organics	ND	ug/L	1		50.0	Q39701	04/02/2009	04/02/2009	
<i>Surrogates:</i>									
4-Bromofluorobenzene	72	% Rec	1		53-114	Q39701	04/02/2009	04/02/2009	
Trifluorotoluene	75	% Rec	1		51-142	Q39701	04/02/2009	04/02/2009	

Pace Analytical Services, Inc.

Quality Control Results

Pace Analytical Services, Inc.

940 South Harney

Seattle, WA 98108

Phone: (206)767-5060

Fax: (206)767-5063

Project:	Conoco Phillips Site# 01234	SDG Number:	CPWA0914
Project Number:	01CP.01234.44	Project Manager:	Chris Gdak
QC Batch(es):	Q39560	Analysis Method:	8260B
QC Batch Method:	5030B-L	Analysis Description:	Purgeable Organic Compounds by GC/MS
Preparation Started:	03/28/2009		
Blank: B032809MVOWY1			

Analyte	Blank Result	Units	DF	Detection Limit Threshold	Control Limit	Qualifiers
Benzene	ND	ug/L	1		0.5	
Ethylbenzene	ND	ug/L	1		0.5	
Methyl tert-butyl ether	ND	ug/L	1		0.5	
Toluene	ND	ug/L	1		0.5	
Xylenes, Total	ND	ug/L	1		0.5	
Surrogates:				% Rec		
4-Bromofluorobenzene			1	115	72-128	
Dibromofluoromethane			1	108	76-127	
1,2-Dichloroethane-d4			1	104	66-133	
Toluene-d8			1	105	75-130	

LCS: S032809MVOWY3

LCS Duplicate: S032809MVOWY3D

Analyte	Blank Spike Result	Units	DF	Spike Conc.	% Rec	Limits	RPD	RPD Limit	Qualifiers
Benzene	9.6	ug/L	1	10.0	96	80-120			
	9.5			10.0	95	80-120	1	30	
Ethylbenzene	8.7	ug/L	1	10.0	87	75-125			
	8.6			10.0	86	75-125	2	30	
Methyl tert-butyl ether	8.6	ug/L	1	10.0	86	65-125			
	8.4			10.0	84	65-125	1	30	
Toluene	8.6	ug/L	1	10.0	86	75-120			
	8.6			10.0	86	75-120	0	30	
Xylenes, Total	25	ug/L	1	30.0	82	75-130			
	24			30.0	81	75-130	2	30	
Surrogates:									
4-Bromofluorobenzene			1		112	72-128			
					114	72-128			
Dibromofluoromethane			1		108	76-127			
					109	76-127			
1,2-Dichloroethane-d4			1		103	66-133			
					103	66-133			
Toluene-d8			1		103	75-130			
					103	75-130			

Pace Analytical Services, Inc.

Quality Control Results

Pace Analytical Services, Inc.

940 South Harney

Seattle, WA 98108

Phone: (206)767-5060

Fax: (206)767-5063

Project:	Conoco Phillips Site# 01234	SDG Number:	CPWA0914
Project Number:	01CP.01234.44	Project Manager:	Chris Gdak
QC Batch(es):	Q39567	Analysis Method:	8260B
QC Batch Method:	5030B-L	Analysis Description:	Purgeable Organic Compounds by GC/MS
Preparation Started:	03/28/2009		
Blank: B032809MVOWB1			

Analyte	Blank Result	Units	DF	Detection Limit Threshold	Control Limit	Qualifiers
Benzene	ND	ug/L	1		0.5	
Ethylbenzene	ND	ug/L	1		0.5	
Methyl tert-butyl ether	ND	ug/L	1		0.5	
Toluene	ND	ug/L	1		0.5	
Xylenes, Total	ND	ug/L	1		0.5	
Surrogates:				% Rec		
4-Bromofluorobenzene			1	108	72-128	
Dibromofluoromethane			1	111	76-127	
1,2-Dichloroethane-d4			1	103	66-133	
Toluene-d8			1	98	75-130	

LCS: S032809MVOWB1

LCS Duplicate: S032809MVOWB1D

Analyte	Blank Spike Result	Units	DF	Spike Conc.	% Rec	Limits	RPD	RPD Limit	Qualifiers
Benzene	10	ug/L	1	10.0	103	80-120			
	10			10.0	100	80-120	3	30	
Ethylbenzene	9.5	ug/L	1	10.0	95	75-125			
	9.2			10.0	92	75-125	3	30	
Methyl tert-butyl ether	8.1	ug/L	1	10.0	81	65-125			
	8.5			10.0	85	65-125	5	30	
Toluene	10	ug/L	1	10.0	101	75-120			
	9.7			10.0	97	75-120	4	30	
Xylenes, Total	29	ug/L	1	30.0	95	75-130			
	28			30.0	93	75-130	3	30	
Surrogates:									
4-Bromofluorobenzene			1		107	72-128			
					104	72-128			
Dibromofluoromethane			1		109	76-127			
					110	76-127			
1,2-Dichloroethane-d4			1		95	66-133			
					97	66-133			
Toluene-d8			1		100	75-130			
					99	75-130			

Pace Analytical Services, Inc.

Quality Control Results

Pace Analytical Services, Inc.

940 South Harney

Seattle, WA 98108

Phone: (206)767-5060

Fax: (206)767-5063

Project:	Conoco Phillips Site# 01234	SDG Number:	CPWA0914
Project Number:	01CP.01234.44	Project Manager:	Chris Gdak

QC Batch(es):	Q39590	Analysis Method:	NWTPH-D
QC Batch Method:	3510C (NWTPH)	Analysis Description:	NWTPH Diesel
Preparation Started:	03/30/2009		

Blank: B033009GSVWLD

Analyte	Blank Result	Units	DF	Detection Limit Threshold	Control Limit	Qualifiers
Diesel Range Organics	ND	ug/L	1		40	
Oil Range Organics	ND	ug/L	1		200	
<i>Surrogates:</i>				% Rec		
o-Terphenyl			1	77	50-150	

LCS: S033009GSVWLD

LCS Duplicate: SD033009GSVWLD

Analyte	Blank Spike Result	Units	DF	Spike Conc.	% Rec	Limits	RPD	RPD Limit	Qualifiers
Diesel Range Organics	3700	ug/L	1	5030	73	51-147			
	3500			5030	69	51-147	6	50	
<i>Surrogates:</i>									
o-Terphenyl			1		83	50-150			
					88	50-150			

Pace Analytical Services, Inc.

Quality Control Results

Pace Analytical Services, Inc.

940 South Harney

Seattle, WA 98108

Phone: (206)767-5060

Fax: (206)767-5063

Project:	Conoco Phillips Site# 01234	SDG Number:	CPWA0914
Project Number:	01CP.01234.44	Project Manager:	Chris Gdak
QC Batch(es):	Q39615	Analysis Method:	NWTPH-G
QC Batch Method:	5030B-GCVOA	Analysis Description:	NWTPH Gas
Preparation Started:	03/30/2009		
Blank: B033009GVOWS1			

Analyte	Blank Result	Units	DF	Detection Limit Threshold	Control Limit	Qualifiers
Gasoline Range Organics	ND	ug/L	1		25	
<i>Surrogates:</i>				% Rec		
4-Bromofluorobenzene			1	80	53-114	
Trifluorotoluene			1	96	51-142	

LCS: S033009GVOWS2						
---------------------------	--	--	--	--	--	--

Analyte	Blank Spike Result	Units	DF	Spike Conc.	% Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	271	ug/L	1	250	109	69-138	
<i>Surrogates:</i>							
4-Bromofluorobenzene			1		98	53-114	
Trifluorotoluene			1		100	51-142	

Pace Analytical Services, Inc.

Quality Control Results

Pace Analytical Services, Inc.

940 South Harney

Seattle, WA 98108

Phone: (206)767-5060

Fax: (206)767-5063

Project:	Conoco Phillips Site# 01234	SDG Number:	CPWA0914
Project Number:	01CP.01234.44	Project Manager:	Chris Gdak
QC Batch(es):	Q39701	Analysis Method:	NWTPH-G
QC Batch Method:	5030B-GCVOA	Analysis Description:	NWTPH Gas
Preparation Started:	04/02/2009		

Blank: B040209GVOWS1

Analyte	Blank Result	Units	DF	Detection Limit Threshold	Control Limit	Qualifiers
Gasoline Range Organics	ND	ug/L	1		25	
<i>Surrogates:</i>				% Rec		
4-Bromofluorobenzene			1	89	53-114	
Trifluorotoluene			1	91	51-142	

LCS: S040209GVOWS1

Analyte	Blank Spike Result	Units	DF	Spike Conc.	% Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	268	ug/L	1	250	107	69-138	
<i>Surrogates:</i>							
4-Bromofluorobenzene			1		97	53-114	
Trifluorotoluene			1		97	51-142	

Matrix Spike: CPWA0916-002MS

Parent Sample: CPWA0916-002

Analyte	Matrix Spike Result	Units	DF	Spike Conc.	Parent Result	% Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	421	ug/L	1	313	ND	131	69-138	
<i>Surrogates:</i>								
4-Bromofluorobenzene			1			92	53-114	
Trifluorotoluene			1			91	51-142	

Sample Duplicate: KIAWW0901-005D

Parent Sample: KIAWW0901-005

Analyte	Duplicate Result	Units	DF	Parent Result	RPD	RPD Limit	Qualifiers
Gasoline Range Organics	ND	ug/L	1	ND	200	50	P5
<i>Surrogates:</i>					% Rec		
4-Bromofluorobenzene			1		90	53-114	
Trifluorotoluene			1		90	51-142	

Pace Analytical Services, Inc.

Quality Control Results

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
Phone: (206)767-5060
Fax: (206)767-5063

Project:	Conoco Phillips Site# 01234	SDG Number:	CPWA0914
Project Number:	01CP.01234.44	Project Manager:	Chris Gdak

QC Batch(es):	Q39753	Analysis Method:	NWTPH-G
QC Batch Method:	5030B-GCVOA	Analysis Description:	NWTPH Gas
Preparation Started:	04/03/2009		

Blank: B040309GVOWS1

Analyte	Blank Result	Units	DF	Detection Limit Threshold	Control Limit	Qualifiers
Gasoline Range Organics	ND	ug/L	1		25	
Surrogates:					% Rec	
4-Bromofluorobenzene			1		93	53-114
Trifluorotoluene			1		94	51-142

LCS: S040309GVOWS1

Analyte	Blank Spike Result	Units	DF	Spike Conc.	% Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	293	ug/L	1	250	117	69-138	
Surrogates:							
4-Bromofluorobenzene			1		97	53-114	
Trifluorotoluene			1		96	51-142	

Matrix Spike: CPWA0917-004MS

Parent Sample: CPWA0917-004

Analyte	Matrix Spike Result	Units	DF	Spike Conc.	Parent Result	% Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	364	ug/L	1	313	ND	116	69-138	
Surrogates:								
4-Bromofluorobenzene			1			88	53-114	
Trifluorotoluene			1			86	51-142	

Sample Duplicate: CPWA0917-003D

Parent Sample: CPWA0917-003

Analyte	Duplicate Result	Units	DF	Parent Result	RPD	RPD Limit	Qualifiers
Gasoline Range Organics	ND	ug/L	1	ND	0	30	
Surrogates:					% Rec		
4-Bromofluorobenzene			1		85	53-114	
Trifluorotoluene			1		84	51-142	

Pace Analytical Services, Inc.

Notes and Definitions

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
Phone: (206)767-5060
Fax: (206)767-5063

SDG No: **CPWA0914**

Report Specific Notes:

ND The analyte of interest was not detected, to the limit of detection indicated

* Recovery result outside established control limits

Laboratory Reporting Conventions:

DF Dilution factor

Detection Limit Threshold The project or method defined limit that defines the lower bound for estimated results. This may be the MDL or IDL or a project-specified value.

MDL The project or method defined limit that defines the lower bound for estimated results. This may be the MDL or IDL or a project-specified value. Detection Limit Thresholds are listed on the report only if the data has been evaluated below the Reporting Limit. Results between the Reporting Limit and the Detection Limit Threshold are reported as estimated results.

IDL Instrument Detection Limit. IDLs are in instrument basis units. Reported results for samples are normalized appropriately using the preparation and analysis steps performed.

Reporting Limit The minimum detection limit for reporting unqualified results under routine laboratory operating conditions. Typically this is the PQL but it may be a different concentration on a project-specific basis.

QC Batch Group Quality Control Batch Group. The entity that links analytical results and supporting quality control results.

% Rec Percent recovery.

Limits The upper and lower control limits for spike recoveries.

RPD Relative Percent Difference. The relative difference between duplicate results (matrix spike, blank spike, or sample duplicate) expressed as a percentage.

RPD Limit The maximum RPD allowed for a set of duplicate measurements (see RPD).

Spike conc. The measured concentration, in sample basis units, of a spiked sample.

PQL Practical Quantitation Limit. The quantitation limit achievable by the laboratory under routine operating conditions. The PQL will be normalized for deviations from these conditions such as dilutions, dry weight adjustment, etc.

LCS Laboratory Control Sample

SDG: CPWA-0914

Chain Of Custody Record

PACE Analytical Laboratory

940 S. Harney Street, Seattle, WA

(206) 767-5060

INVOICE REMITTANCE ADDRESS:

Stanfec
Attn: Chris Gdak
12034 134th CT; Suite 102
Redmond, WA 98052

Purchase Order #

ConocoPhillips ADC#

01234

DATE: 03/26/09

PAGE: 1 of 2

[illegible]

12-11-11 11:11 36-1/2 755

Jenny Goss 3/27/09 10:00

Case

11

Cooler Receipt Form
Pace Analytical Services, Inc.

SDG: CPWA0914

Taken By: Client

Cooler: AAF951

Transferred: Pace

COC #:

Project: WA Conoco Phillips (Stantec - Conoco Phillips)

Date samples were received at the laboratory: 3/27/2009

Date cooler was opened: 3/27/2009 10:00AM

A. PRELIMINARY EXAMINATION PHASE:

1. Did cooler come with a shipping slip (airbill, etc.)? NO
if YES, record carrier name and airbill number:
2. Were custody seals unbroken and intact at the date and time of arrival? INTACT
Date On Custody Seal: 3/26/2009 Custody Seals Description: one in front
3. Were custody papers sealed in a plastic bag and taped inside to the lid? YES
4. Did you screen samples for radioactivity using the Geiger Counter? NO
5. Were custody papers filled out properly (ink, signed, etc.)? YES
6. Did you sign custody papers in the appropriate place? YES
7. If required, was enough cooling material present? YES
8. Have designated person initial here to acknowledge receipt of cooler: TJN

B. LOG-IN PHASE:

Date samples were logged-in: 3/27/2009 5:01PM

Logged-in by Taryn Namba (sign) Taryn Namba

9. Describe type of packing in cooler:

ice, plastic bags

10. Were all bottles sealed in separate plastic bags? YES
11. Were labels in good condition? YES
12. Were all bottle labels complete (ID, date, time signature, preservative, etc.)? YES
13. Did all bottle labels agree with custody papers? YES
14. Were correct containers used for the tests indicated? YES
15. Were the correct pHs observed? YES
16. Was a sufficient amount of sample sent for tests indicated? YES
17. Were VOA samples compliant with headspace, septum and cap? YES
18. Temperatures: 5.9

DISCREPANCIES:

COMMENTS:

Other cooler that samples were received in: AAT309 Temps: 5.3, 4.7, 3.4

Date Printed: 3/27/2009 17:19

Supplemental Sample Receipt Log
Pace Analytical Services, Inc.

SDG: CPWA0914

Cooler: AAF951

Temperatures: 5.9

COC #:

Sample	Bottle #	Bottle Description	pH	VOA*
CPWA0914-001	0001	1000 mL boston round, amber glass, HCl	<2	N/A
	0003	40 ml OTWS, clear glass, HCl	N/C	Yes
	0004	40 ml OTWS, clear glass, HCl	N/C	Yes
	0005	40 ml OTWS, clear glass, HCl	N/C	Yes
	0006	40 ml OTWS, clear glass, HCl	N/C	Yes
	0007	40 ml OTWS, clear glass, HCl	N/C	Yes
	0008	40 ml OTWS, clear glass, HCl	N/C	Yes
CPWA0914-002	0001	1000 mL boston round, amber glass, HCl	<2	N/A
	0003	40 ml OTWS, clear glass, HCl	N/C	Yes
	0004	40 ml OTWS, clear glass, HCl	N/C	Yes
	0005	40 ml OTWS, clear glass, HCl	N/C	Yes
	0006	40 ml OTWS, clear glass, HCl	N/C	Yes
	0007	40 ml OTWS, clear glass, HCl	N/C	Yes
	0008	40 ml OTWS, clear glass, HCl	N/C	Yes
CPWA0914-003	0001	1000 mL boston round, amber glass, HCl	<2	N/A
	0003	40 ml OTWS, clear glass, HCl	N/C	Yes
	0004	40 ml OTWS, clear glass, HCl	N/C	Yes
	0005	40 ml OTWS, clear glass, HCl	N/C	Yes
	0006	40 ml OTWS, clear glass, HCl	N/C	Yes
	0007	40 ml OTWS, clear glass, HCl	N/C	Yes
	0008	40 ml OTWS, clear glass, HCl	N/C	Yes
CPWA0914-004	0001	1000 mL boston round, amber glass, HCl	<2	N/A
	0003	40 ml OTWS, clear glass, HCl	N/C	Yes
	0004	40 ml OTWS, clear glass, HCl	N/C	Yes
	0005	40 ml OTWS, clear glass, HCl	N/C	Yes
	0006	40 ml OTWS, clear glass, HCl	N/C	Yes
	0007	40 ml OTWS, clear glass, HCl	N/C	Yes
	0008	40 ml OTWS, clear glass, HCl	N/C	Yes
CPWA0914-005	0001	1000 mL boston round, amber glass, HCl	<2	N/A
	0003	40 ml OTWS, clear glass, HCl	N/C	Yes
	0004	40 ml OTWS, clear glass, HCl	N/C	Yes

* VOA vial compliant

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2

Base Preserved pH pH must be greater than 12

NC Not Checked for pH

Supplemental Sample Receipt Log
Pace Analytical Services, Inc.

SDG: CPWA0914

Cooler: AAF951

Temperatures: 5.9

COC #:

Sample	Bottle #	Bottle Description	pH	VOA*
	0005	40 ml OTWS, clear glass, HCl	N/C	Yes
	0006	40 ml OTWS, clear glass, HCl	N/C	Yes
	0007	40 ml OTWS, clear glass, HCl	N/C	Yes
	0008	40 ml OTWS, clear glass, HCl	N/C	Yes
CPWA0914-006	0001	1000 mL boston round, amber glass, HCl	<2	N/A
	0003	40 ml OTWS, clear glass, HCl	N/C	Yes
	0004	40 ml OTWS, clear glass, HCl	N/C	Yes
	0005	40 ml OTWS, clear glass, HCl	N/C	Yes
	0006	40 ml OTWS, clear glass, HCl	N/C	Yes
	0007	40 ml OTWS, clear glass, HCl	N/C	Yes
	0008	40 ml OTWS, clear glass, HCl	N/C	Yes
CPWA0914-007	0001	1000 mL boston round, amber glass, HCl	<2	N/A
	0003	40 ml OTWS, clear glass, HCl	N/C	Yes
	0004	40 ml OTWS, clear glass, HCl	N/C	Yes
	0005	40 ml OTWS, clear glass, HCl	N/C	Yes
	0006	40 ml OTWS, clear glass, HCl	N/C	Yes
	0007	40 ml OTWS, clear glass, HCl	N/C	Yes
	0008	40 ml OTWS, clear glass, HCl	N/C	Yes
CPWA0914-008	0001	1000 mL boston round, amber glass, HCl	<2	N/A
	0003	40 ml OTWS, clear glass, HCl	N/C	Yes
	0004	40 ml OTWS, clear glass, HCl	N/C	Yes
	0005	40 ml OTWS, clear glass, HCl	N/C	Yes
	0006	40 ml OTWS, clear glass, HCl	N/C	Yes
	0007	40 ml OTWS, clear glass, HCl	N/C	Yes
	0008	40 ml OTWS, clear glass, HCl	N/C	Yes
CPWA0914-009	0001	1000 mL boston round, amber glass, HCl	<2	N/A
	0003	40 ml OTWS, clear glass, HCl	N/C	Yes
	0004	40 ml OTWS, clear glass, HCl	N/C	Yes
	0005	40 ml OTWS, clear glass, HCl	N/C	Yes
	0006	40 ml OTWS, clear glass, HCl	N/C	Yes
	0007	40 ml OTWS, clear glass, HCl	N/C	Yes

* VOA vial compliant

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature

Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH

pH must be less than 2

Base Preserved pH

pH must be greater than 12

NC

Not Checked for pH

Supplemental Sample Receipt Log
Pace Analytical Services, Inc.

SDG: CPWA0914

Cooler: AAF951

Temperatures: 5.9

COC #:

Sample	Bottle #	Bottle Description	pH	VOA*
	0008	40 ml OTWS, clear glass, HCl	N/C	Yes
CPWA0914-010	0001	40 ml OTWS, clear glass, HCl	N/C	Yes
	0002	40 ml OTWS, clear glass, HCl	N/C	Yes
	0003	40 ml OTWS, clear glass, HCl	N/C	Yes
	0004	40 ml OTWS, clear glass, HCl	N/C	Yes
	0005	40 ml OTWS, clear glass, HCl	N/C	Yes
	0006	40 ml OTWS, clear glass, HCl	N/C	Yes

* VOA vial compliant

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature Allowable temperature range is 4+/- 2 degrees Celsius

Acid Preserved pH pH must be less than 2

Base Preserved pH pH must be greater than 12

NC Not Checked for pH