



Stantec

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TOSCO 6380

Bellingham

Release 471259

Quarterly Groundwater Monitoring Report - Second Quarter 2010
ConocoPhillips Service Station No. 256380 (RM&R #1571)
Washington State Department of Ecology Facility No. 11191596
200 South 36th Street
Bellingham, Washington 98225

Stantec Project No.:
212302382

Submitted to:
Ms. Donna Musa
Toxics Cleanup Program
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

August 2, 2010

RECEIVED

AUG 09 2010

DEPT. OF ECOLOGY

Dear Ms. Musa:

Stantec Consulting Corporation (Stantec) is pleased to present this quarterly groundwater monitoring report to the Washington State Department of Ecology (DOE) Toxics Cleanup Program (TCP) on behalf of the ConocoPhillips Company (ConocoPhillips). This report describes the results of groundwater monitoring activities performed by Stantec during the Second Quarter of 2010 (the reporting period) at ConocoPhillips Facility No. 256380 (RM&R #1571; DOE Facility No. 11191596) located at 200 South 36th Street in Bellingham, Washington (the Site).

GROUNDWATER MONITORING ACTIVITIES

Groundwater monitoring activities during the reporting period were performed on June 4, 2010. Groundwater monitoring activities were performed in accordance with Stantec's protocols for groundwater monitoring events (see Appendix A).

Eight groundwater monitoring wells were gauged (MW-1 through MW-8) and six groundwater monitoring wells were sampled (MW-1, MW-3, MW-4, and MW-6 through MW-8). These activities are described below.

Monitoring Well Gauging

Eight groundwater monitoring wells were gauged: MW-1 through MW-8. 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 4.82 feet (MW-5) to 7.76 feet (MW-2) 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. Historic 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 water table at the Site is relatively flat. Groundwater flow direction appears to be divergent directed generally to the northwest and east-southeast at an approximate groundwater gradient of 0.001 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 (Appendix B). Purged groundwater and rinsate/decontamination water were

stored at the Site in a Department of Transportation (DOT)-approved, steel drum pending laboratory characterization and offsite 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 a certified 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) using Environmental Protection Agency (EPA) Method 8260B;
- Total petroleum hydrocarbons (TPH) gasoline range organics (TPH-G) using DOE Northwest Method NWTPH-Gx; and,
- TPH diesel range organics (TPH-D) and TPH oil range organics (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 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 and BTEX for the reporting period and the three previous reporting periods are illustrated on Figure 2.

A summary of the analytical results exceeding Model Toxics Control Act (MTCA) Method A cleanup levels is provided below. Analytical results not described below did not exceed MTCA Method A cleanup levels.

- TPH-D was detected in MW-7 at a concentration of 1,200 micrograms per liter ($\mu\text{g/L}$), which exceeds the MTCA Method A cleanup level of 500 $\mu\text{g/L}$.

The results during this reporting period are generally consistent with the results from other recent groundwater monitoring events.

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 that were identified during chemical analysis. Potential QA/QC concerns were identified on pages 12 and 13 in the analytical report.

WASTE DISPOSAL

Purge and rinsate 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.

CONCLUSIONS

The concentration of TPH-D in MW-7 exceeded the applicable MTCA Method A cleanup level. No other exceedances of MTCA Method A cleanup levels were reported for any of the constituents analyzed at any of the locations sampled during the reporting period.

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 report 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

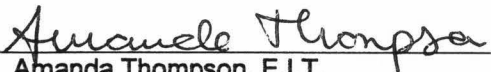
Stantec

Quarterly Groundwater Monitoring Report - Second Quarter 2010

August 2, 2010

existing at the time of the field investigations. No other warranties, expressed or implied are made by Stantec.

Prepared by:


Amanda Thompson, E.I.T.
Staff Engineer

Reviewed by:

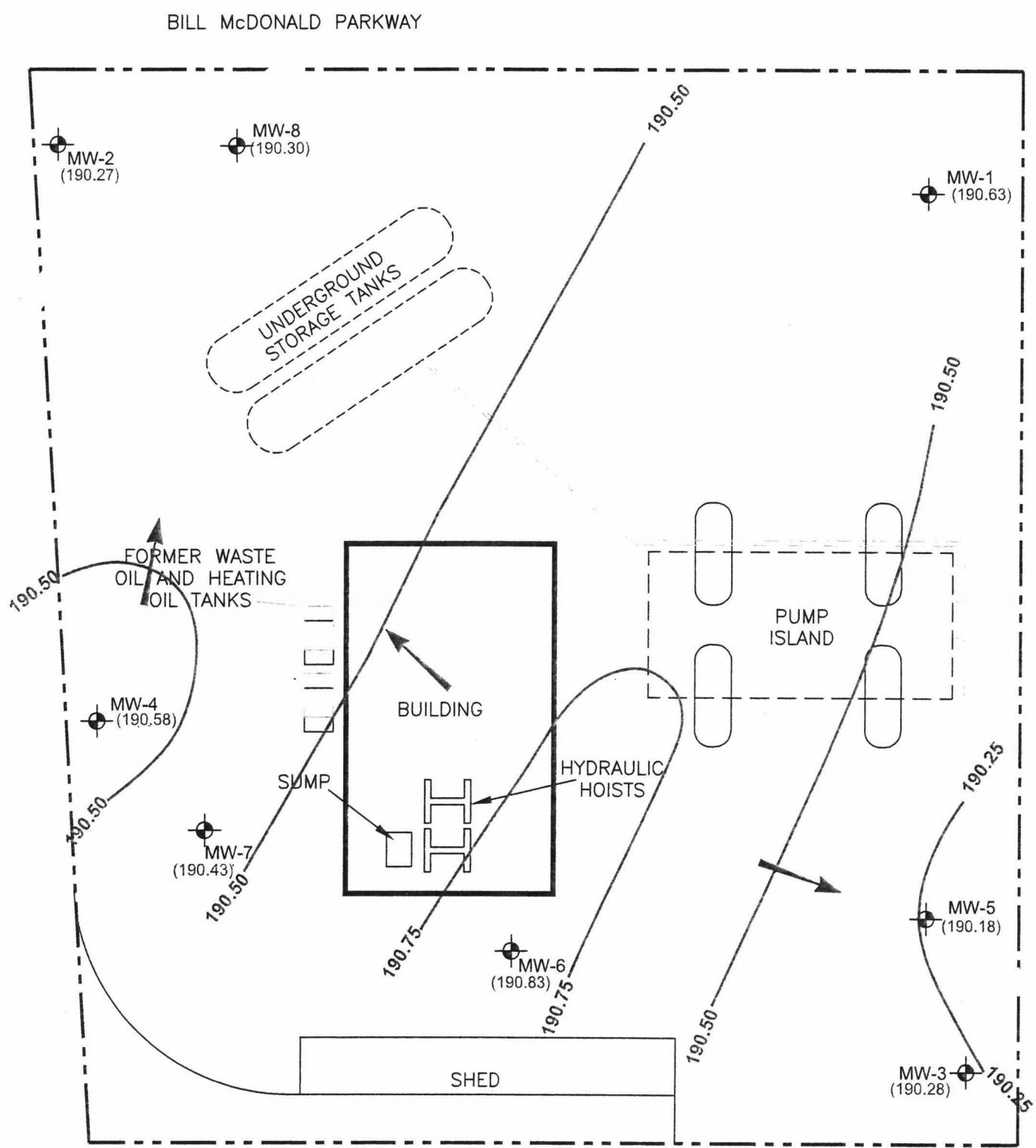
Marc Sauze, P.E.
Senior Engineer



ATTACHMENTS

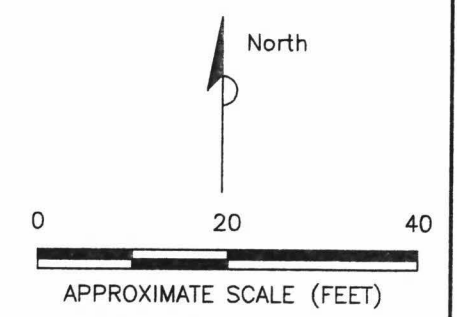
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|------------|--|
| Table 1 | Cumulative Summary of Groundwater Elevations and Sample Analytical Results |
| Figure 1 | Site Plan with Groundwater Elevations (June 4, 2010) |
| Figure 2 | Site Plan with Analytical Results (June 4, 2010) |
| Appendix A | Field and Laboratory Procedures |
| Appendix B | Field Data Sheets |
| Appendix C | Certified Laboratory Analytical Report and Chain-of-Custody Documentation |

FIGURES



- LEGEND**
- MW-1 MONITORING WELL LOCATION AND ID
 - - - - - SITE BOUNDARY
- GROUNDWATER**
- (190.63) GROUNDWATER ELEVATION (FEET)
 - INFERRED GROUNDWATER FLOW DIRECTION
 - 190.25 GROUNDWATER ELEVATION CONTOUR (FEET)

- NOTES:**
- 1). ALL LOCATIONS ARE APPROXIMATE.
 - 2). CONTOUR INTERVAL = 0.25 FEET
 - 3). GROUNDWATER GRADIENT = 0.001 FT/FT



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SOURCE:
 BASE MAP FROM: ENVIRONMENTAL RESOLUTIONS, INC.
 (ERI) TITLED GROUNDWATER SAMPLE ANALYSIS MAP-
 06/10/03, PLATE 1, DATED 07/08/03, PROJECT
 NO. 31065. CADD FILE 31065.13.DWG

 Stantec 12034 134th COURT, SUITE 102 REDMOND, WASHINGTON PHONE: (425) 298-1000 FAX: (425) 298-1020	FOR: ConocoPhillips FACILITY NO. 256380 (RM&R 1571) 200 SOUTH 36th STREET BELLINGHAM, WASHINGTON	SITE PLAN WITH GROUNDWATER ELEVATIONS (JUNE 4, 2010)		FIGURE: 1
	JOB NUMBER: 212302382	DRAWN BY: DJH	CHECKED BY: AT	APPROVED BY: CG

MW-8	9/29/09	12/9/09	2/26/10	6/4/10
TPH-G	<50.0	57.9	<50.0	<50.0
TPH-D	88.5	112	136	99
TPH-O	<388	<385	496	<392
B	<1.0	<1.0	<1.0	3.8
T	<1.0	<1.0	<1.0	<1.0
E	<1.0	<1.0	<1.0	<1.0
X	<3.0	<3.0	<3.0	<3.0

MW-2	9/29/09	12/9/09	2/26/10	6/4/10
TPH-G	<50.0	--	--	--
TPH-D	<77.7	--	--	--
TPH-O	<388	--	--	--
B	<1.0	--	--	--
T	<1.0	--	--	--
E	<1.0	--	--	--
X	<3.0	--	--	--

MW-1	9/29/09	12/9/09	2/26/10	6/4/10
TPH-G	<50.0	--	<50.0	<50.0
TPH-D	<77.7	--	<77.7	187
TPH-O	<388	--	<388	<392
B	<1.0	--	4.4	<1.0
T	<1.0	--	1.5	<1.0
E	<1.0	--	<1.0	<1.0
X	<3.0	--	7.2	<3.0

MW-4	9/29/09	12/9/09	2/26/10	6/4/10
TPH-G	<50.0	<50.0	<50.0	<50.0
TPH-D	256	142	<77.7	81.3
TPH-O	<396	<385	<388	<396
B	<1.0	<1.0	<1.0	<1.0
T	<1.0	<1.0	<1.0	<1.0
E	<1.0	<1.0	<1.0	<1.0
X	<3.0	<3.0	<1.0	<3.0

MW-7	9/29/09	12/9/09	2/26/10	6/4/10
TPH-G	134	169	190	151
TPH-D	839	891	1,120	1,200
TPH-O	566	<385	518	<388
B	<1.0	<1.0	<1.0	<1.0
T	<1.0	<1.0	<1.0	<1.0
E	<1.0	<1.0	<1.0	<1.0
X	<3.0	<3.0	<3.0	<3.0

MW-6	9/29/09	12/9/09	2/26/10	6/4/10
TPH-G	<50.0	<50.0	<50.0	<50.0
TPH-D	<78.4	121	<76.9	<78.4
TPH-O	<392	<385	<385	<392
B	<1.0	<1.0	<1.0	<1.0
T	<1.0	<1.0	<1.0	<1.0
E	<1.0	<1.0	<1.0	<1.0
X	<3.0	<3.0	<3.0	<3.0

MW-5	9/29/09	12/9/09	2/26/10	6/4/10
TPH-G	<50.0	--	63.1	--
TPH-D	183	--	93.6	--
TPH-O	<386	--	<385	--
B	<1.0	--	<1.0	--
T	<1.0	--	<1.0	--
E	<1.0	--	<1.0	--
X	<3.0	--	<3.0	--

MW-3	9/29/09	12/9/09	2/26/10	6/4/10
TPH-G	<50.0	--	--	<50.0
TPH-D	<78.4	--	--	111
TPH-O	<392	--	--	<392
B	<1.0	--	--	<1.0
T	<1.0	--	--	<1.0
E	<1.0	--	--	<1.0
X	<3.0	--	--	<3.0

LEGEND

- MONITORING WELL LOCATION
- GEOPROBE BORING LOCATION
- SITE BOUNDARY
- INFERRED GROUNDWATER FLOW DIRECTION

ANALYTES

WELL ID	ANALYTE
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

UNITS IN MICROGRAMS PER LITER (µg/L)

- BOLD** VALUES EQUAL OR EXCEED MTCA METHOD A CLEANUP LEVELS.
- < LESS THAN LABORATORY REPORTING LIMIT
- NOT ANALYZED OR NOT APPLICABLE

NOTE:

- 1). ALL LOCATIONS ARE APPROXIMATE.

SOURCE:
 BASE MAP FROM: ENVIRONMENTAL RESOLUTIONS, INC.
 (ERI) TITLED GROUNDWATER SAMPLE ANALYSIS MAP-
 06/10/03, PLATE 1, DATED 07/08/03, PROJECT
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 12034 134th COURT, SUITE 102 REDMOND, WASHINGTON PHONE: (425) 298-1000 FAX: (425) 298-1020	FOR: FACILITY NO. 256380 (RM&R 1571) 200 SOUTH 36th STREET BELLINGHAM, WASHINGTON	SITE PLAN WITH ANALYTICAL RESULTS (JUNE 4, 2010)		FIGURE: 2
	JOB NUMBER: 212302382	DRAWN BY: DJH	CHECKED BY: AT	APPROVED BY: CG

TABLE

TABLE 1
CULMULATIVE SUMMARY OF GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
 ConocoPhillips Facility No. 256380
 200 South 36th Street
 Bellingham, Washington

Well Name	Sample Date	Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons						Lead		
		Depth to Water	LPH	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)	EDC (µg/L)	EDB (µg/L)	Total Pb (µg/L)	Dissolved Pb (µg/L)
MW1	03/11/99	4.96	--	93.53	<50	<250	<750*	<0.500	<0.500	<0.500	<1.00	--	--	--	2.41	--
	98.49	05/25/99	5.33	--	93.16	<50.0	<250	<750*	<0.500	<0.500	<0.500	<1.00	--	--	--	--
	08/12/99	6.66	--	91.83	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--
	12/07/99	6.10	--	92.39	<50.0	<250	<750*	<0.500	<0.500	<0.500	<1.00	--	--	--	6.18	--
	02/10/00	6.10	--	92.39	<50.0	<250	<750*	<0.500	<0.500	<0.500	<1.00	--	--	--	1.75	--
	02/02/01	5.17	--	93.32	<50.0	588	<750*	12.4	1.02	1.10	2.77	--	--	--	--	<1.00
	02/08/02	5.77	--	92.72	838	1,600	<500	128	2.15	85.4	6.55	--	--	--	7.70	<1.00
	09/20/02	6.27	--	92.22	197	1,320	<588*	1.82	<0.500	33.0	<1.00	--	--	--	<1.00	--
	12/04/02	7.05	--	91.44	373	511	<568*	106	1.32	1.39	5.41	--	--	--	4.65	--
	03/05/03	5.70	--	92.79	168	<250	<500	28.3	1.70	3.55	5.87	--	--	--	4.90	--
	06/10/03	5.92	--	92.57	400	<250	<500	36.9	2.43	30.5	6.97	--	--	--	17.1	--
	09/03/03	6.30	--	92.19	258	301	<588*	1.91	3.22	4.30	5.25	--	--	--	8.72	--
	12/12/03	5.530	--	92.960	204	700	304	2.45	<0.500	<0.500	<1.500	--	--	--	<5.0	--
	03/24/04	6.11	--	92.38	163	<126	<251	12.6	<1.00	<1.00	<3.00	--	--	--	14.6	--
	6/17/2004	5.10	--	93.39	<50.0	<118	<237	4.98	<0.500	<0.500	<1.50	--	--	--	--	<10.0
	9/23/2004	5.28	--	93.21	190	<267	<535*	<0.50	<0.50	<0.50	<1.0	--	--	--	<10.0	--
	12/29/2004	5.42	--	93.07	<100	<241	<482	<1.00	<1.00	<1.00	<3.00	--	--	--	--	<10.0
	3/4/2005	5.73	--	92.76	<100	<241	<482	<1.00	<1.00	<1.00	<3.00	--	--	--	<10.0	--
	6/9/2005	6.10	--	92.39	<100	<236	<472	<1	<1	<1	<3	1.26	--	--	--	<15
	09/15/05	6.60	--	91.89	<48	<160	<200	<0.5	<0.5	<0.5	<1.5	--	--	--	--	<0.87
	12/15/05	5.94	--	92.55	<48	170	110	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--
	03/10/06	5.34	--	93.15	<48	<76	<95	0.6	<0.2	<0.2	<0.6	--	--	--	--	--
	06/30/06	8.88	--	89.81	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	1.3	--	--	--	--
	03/07/07	UNABLE TO GAUGE OR SAMPLE; PUBLIC WORKS TRUCKS PARKED OVER WELL.														
	08/01/07	5.47	--	93.02	<50	--	--	<0.5	<0.7	<0.8	<0.8	1.0	--	--	--	--
	09/06/07	6.01	--	92.48	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	0.5	--	--	--	--
	12/03/07	6.63	--	91.86	<50	<400 ^c	<500 ^c	<0.5	<0.7	<0.8	<0.8	0.6	--	--	--	--
	03/05/08	5.34	--	93.15	<50 ^d	<800 ^{a,b}	<1,000 ^{c,e}	11	<0.7	<0.8	<0.8	1	--	--	--	--
	06/11/08	5.34	0.00	93.15	<50	<800 ^{a,b,c}	<1,000 ^{b,d,e}	10	<0.5	<0.5	<0.5	1	--	--	--	--
	09/10/08	5.30	0.00	93.19	<50	<77	<96	<0.5	<0.7	<0.8	<0.8	1	--	--	--	--
	12/10/08	5.62	0.00	92.87	<50	<29	<69	<0.5	<0.7	<0.8	<0.8	--	--	--	--	--
	03/31/09	5.55	0.00	92.94	<50.0	<83	<420	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--
	06/17/09	5.80	0.00	92.69	<50.0	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<0.010	<1.0	<1.0
195.79	09/29/09	6.67	0.00	189.12	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	--	--
	12/09/09	6.00	0.00	189.79	Not part of the sampling schedule this reporting period.										--	--
	02/26/10	5.33	0.00	190.46	<50.0	<77.7	<388	4.4	1.5	<1.0	7.2	--	--	--	--	--
	06/04/10	5.16	0.00	190.63	<50.0	187	<392	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--

TABLE 1
CULMULATIVE SUMMARY OF GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
 ConocoPhillips Facility No. 256380
 200 South 38th Street
 Bellingham, Washington

Well Name	Sample Date	Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons							Lead	
		Depth to Water	LPH	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)	EDC (µg/L)	EDB (µg/L)	Total Pb (µg/L)	Dissolved Pb (µg/L)
MW2	03/11/99	7.93	--	92.81	<50	<250	<750*	<0.500	<0.500	<0.500	<1.00	--	--	--	162	--
100.74	05/25/99	8.18	--	92.56	<50.0	<250	<750*	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--
	08/12/99	8.94	--	91.80	<50.0	281	<750*	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--
	12/07/99	8.04	--	92.70	<50.0	<250	<750*	<0.500	<0.500	<0.500	<1.00	--	--	--	17.0	--
	02/10/00	8.32	--	92.42	<50.0	<250	<750*	<0.500	<0.500	<0.500	<1.00	--	--	--	49.1	--
	02/02/01	6.40	--	94.34	<50.0	<250	<750*	<0.500	<0.500	<0.500	<1.00	--	--	--	--	<1.00
	02/08/02	7.77	--	92.97	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	40.6	<1.00
	09/20/02	9.23	--	91.51	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	<1.00	--
	12/04/02	9.15	--	91.59	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	2.89	--
	03/05/03	8.28	--	92.46	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	19.8	--
	06/10/03	8.56	--	92.18	<50.0	<284	<568*	<0.500	1.36	<0.500	2.53	--	--	--	40.1	--
	09/03/03	9.13	--	91.61	<80.0	<298	<595*	0.829	1.25	0.519	2.49	--	--	--	33.3	--
	12/12/03	8.120	--	92.82	<50.0	<119	<237	<0.250	<0.500	<0.500	<1.500	--	--	--	<5.0	--
	03/24/04	8.13	--	92.61	<100	<124	<248	<1.00	<1.00	<1.00	<3.00	--	--	--	21.3	--
	6/17/2004	8.13	--	92.81	<50.0	<119	<238	<0.250	<0.500	<0.500	<1.50	--	--	--	--	<10.0
	9/23/2004	8.33	--	92.41	<50	<271	<542*	<0.50	<0.50	<0.50	<1.0	--	--	--	<10.0	--
	12/29/2004	7.82	--	92.92	<100	<239	<478	<1.00	<1.00	<1.00	<3.00	--	--	--	--	<10.0
	3/4/2005	8.34	--	92.40	<100	<239	<478	<1.00	<1.00	<1.00	<3.00	--	--	--	<10.0	--
	6/9/2005	8.66	--	92.08	<100	<238	<475	<1	<1	<1	<3	<1	--	--	--	<15
	9/15/2005	5.40	--	95.34	<48	<75	<94	<0.5	<0.5	<0.5	<1.5	--	--	--	--	<0.87
	12/15/2005	8.44	--	92.30	<48	<75	<94	<0.2	<0.2	<0.2	<0.8	--	--	--	--	--
	3/10/2006	8.28	--	92.46	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--
	06/30/06	8.71	--	92.03	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	<0.3	--	--	--	--
	03/07/07	7.80	--	92.94	<48	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	06/01/07	8.38	--	92.36	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	09/06/07	9.06	--	91.68	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	12/03/07	6.69	--	94.05	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	03/05/08	8.05	--	92.69	<50	<800 ^a	<1,000 ^a	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
06/11/08	8.25	0.00	92.49	<50	<76 ^b	<95 ^b	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
09/10/08	8.80	0.00	91.94	<50	<78	<97	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	
12/10/08	Removed from sampling event this quarter.				--	--	--	--	--	--	--	--	--	--	--	--
03/31/09	7.90	0.00	92.84	--	--	--	--	--	--	--	--	--	--	--	--	--
06/17/09	8.53	0.00	92.21	<50.0	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<0.010	<1.0	<1.0	
09/29/09	9.38	0.00	188.65	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	--	--	
198.03	12/09/09	7.99	0.00	190.04	Not part of the sampling schedule this reporting period.							--	--	--	--	--
	02/26/10	8.10	0.00	189.93	Not part of the sampling schedule this reporting period.							--	--	--	--	--
	06/04/10	7.76	0.00	190.27	Not part of the sampling schedule this reporting period.							--	--	--	--	--

TABLE 1
CULMULATIVE SUMMARY OF GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
 ConocoPhillips Facility No. 256380
 200 South 36th Street
 Bellingham, Washington

Well Name	Sample Date	Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons							Lead		
		Depth to Water	LPH	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)	EDC (µg/L)	EDB (µg/L)	Total Pb (µg/L)	Dissolved Pb (µg/L)	
MW3 97.84	03/11/99	4.93	--	92.91	<50	<250	<750 ^a	<0.500	<0.500	<0.500	<1.00	--	--	--	6.35	--	
	05/25/99	5.19	--	92.65	210	383	<750 ^a	<0.500	<0.500	3.04	3.93	--	--	--	--	--	
	08/12/99	5.70	--	92.14	56.3	<250	<750 ^a	<0.500	<0.500	0.732	1.84	--	--	--	--	--	
	12/07/99	5.03	--	92.81	94.7	<250	<750 ^a	<0.500	0.598	<0.500	<1.00	--	--	--	4.40	--	
	02/10/00	4.92	--	92.92	<50.0	<250	<750 ^a	<0.500	<0.500	<0.500	<1.00	--	--	--	17.6	--	
	02/02/01	4.76	--	93.08	63.0	413	<750 ^a	<0.500	<0.500	0.503	<1.00	--	--	--	--	<1.00	
	02/08/02	4.59	--	93.25	91.5	410	<500	<500	<500	<500	<1.00	--	--	--	22.3	<1.00	
	09/20/02	5.88	--	91.96	129	372	<500	<500	<500	<500	<1.00	--	--	--	<1.00	--	
	12/04/02	5.26	--	92.58	147	371	<500	<500	<500	<500	<1.00	--	--	--	4.60	--	
	03/05/03	4.70	--	93.14	62.2	<250	<500	<500	<500	<500	<1.00	--	--	--	12.5	--	
	06/10/03	5.31	--	92.53	<50.0	<250	<500	<500	<500	<500	<1.00	--	--	--	6.90	--	
	09/03/03	5.66	--	92.18	<80.0	<250	<500	2.12	0.753	<0.500	<1.00	--	--	--	<1.00	--	
	12/12/03	4.785	--	93.06	<50.0	<119	<237	<0.250	<0.500	<0.500	<1.500	--	--	--	<5.0	--	
	03/24/04	4.81	--	93.03	<100	<128	<256	<1.00	<1.00	<1.00	<3.00	--	--	--	20.0	--	
	6/17/2004	4.97	--	92.87	<50.0	<119	<238	<0.250	<0.500	<0.500	<1.50	<1.00	--	--	--	<10.0	
	9/23/2004	5.03	--	92.81	140	<255	<509 ^a	<0.50	<0.50	<0.50	<1.0	--	--	--	<10.0	--	
	12/29/2004	4.53	--	93.31	<100	<239	<478	<1.00	<1.00	<1.00	<3.00	--	--	--	--	<10.0	
	3/4/2005	5.02	--	92.82	<100	<241	<482	<1.00	<1.00	<1.00	<3.00	--	--	--	<10.0	--	
	6/9/2005	5.25	--	92.59	<100	<238	<475	<1	<1	<1	<3	<1	--	--	--	<15	
	9/15/2005	7.20	--	90.84	<48	<75	<93	<0.5	<0.5	<0.5	<1.5	--	--	--	--	<0.87	
	12/15/2005	5.09	--	92.75	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--	
	3/10/2006	4.75	--	93.09	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--	
	06/30/06	5.40	--	92.44	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	<0.3	--	--	--	--	
	03/07/07	4.42	--	93.42	<48	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	
	06/01/07	4.94	--	92.90	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	
	09/06/07	5.43	--	92.41	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	
	12/03/07	4.70	--	93.14	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	
	03/05/08	4.89	--	92.95	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	
	06/11/08	5.11	0.00	92.73	<50	100 ^b	560 ^b	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
	09/10/08	5.30	0.00	92.54	<50	<78	<96	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	
	12/10/08	Removed from sampling event this quarter.															
03/31/09	4.90	0.00	92.94	--	--	--	--	--	--	--	--	--	--	--	--		
06/17/09	5.57	0.00	92.27	<50.0	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<0.010	<1.0	<1.0		
09/29/09	5.91	0.00	189.28	<50.0	<78.4	<392	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	--	--		
12/09/09	5.06	0.00	190.13	Not part of the sampling schedule this reporting period.												--	--
02/26/10	5.02	0.00	190.17	Not part of the sampling schedule this reporting period.												--	--
06/04/10	4.91	0.00	190.28	<50.0	111.00	<392	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--		

TABLE 1
CULMULATIVE SUMMARY OF GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
 ConocoPhillips Facility No. 256380
 200 South 38th Street
 Bellingham, Washington

Well Name	Sample Date	Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons							Lead	
		Depth to Water	LPH	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)	EDC (µg/L)	EDB (µg/L)	Total Pb (µg/L)	Dissolved Pb (µg/L)
MW4	03/11/99	6.39	--	93.05	<50	<250	<750*	<0.500	<0.500	<0.500	<1.00	--	--	--	29.0	--
	05/25/99	6.62	--	92.82	<50.0	<250	<750*	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--
99.44	08/12/99	7.31	--	92.13	<50.0	<250	<750*	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--
	12/07/99	6.37	--	93.07	<50.0	<250	<750*	<0.500	<0.500	<0.500	<1.00	--	--	--	10.2	--
	02/10/00	6.48	--	92.96	<50.0	<250	<750*	<0.500	<0.500	<0.500	<1.00	--	--	--	23.6	--
	02/02/01	6.37	--	93.07	<50.0	<250	<750*	<0.500	<0.500	<0.500	<1.00	--	--	--	--	<1.00
	02/08/02	6.03	--	93.41	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	3.30	<1.00
	09/20/02	7.37	--	92.07	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	<1.00	--
	12/04/02	7.03	--	92.41	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	<1.00	--
	03/05/03	6.33	--	93.11	<50.0	<284	<588*	<0.500	<0.500	<0.500	<1.00	--	--	--	6.81	--
	06/10/03	6.99	--	92.45	<50.0	<250	<500	<0.500	0.687	<0.500	<1.00	--	--	--	10.5	--
	09/03/03	7.80	--	91.84	<80.0	<312	<625*	0.620	<0.500	<0.500	<1.00	--	--	--	2.75	--
	12/12/03	6.485	--	92.96	<50.0	<118	<237	<0.250	<0.500	<0.500	<1.500	--	--	--	<5.0	--
	03/24/04	6.54	--	92.90	<100	<133	<265	<1.00	<1.00	<1.00	<3.00	--	--	--	<5.0	--
	6/17/2004	5.91	--	93.53	<50.0	<119	<237	<0.250	<0.500	<0.500	<1.50	--	--	--	--	<10.0
	9/23/2004	6.52	--	92.92	<50	<250	<518*	<0.50	<0.50	<0.50	<1.0	--	--	--	<10.0	--
	12/29/2004	6.14	--	93.30	<100	<240	<480	<1.00	<1.00	<1.00	<3.00	--	--	--	--	<10.0
	3/4/2005	6.65	--	92.79	<100	<240	<481	<1.00	<1.00	<1.00	<3.00	--	--	--	<10.0	--
	6/9/2005	6.91	--	92.53	<100	<237	<473	<1	<1	<1	<3	<1	--	--	--	<15
	9/15/2005	6.10	--	93.34	<48	150	<93	<0.5	<0.5	<0.5	<1.5	--	--	--	--	<0.87
	12/15/2005	6.73	--	92.71	<48	180	<94	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--
	3/10/2006	6.28	--	93.16	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--
	06/03/06	6.80	--	92.64	<48	130	<95	<0.2	<0.2	<0.2	<0.6	0.8	--	--	--	--
	03/07/07	5.81	--	93.63	<48	83	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	06/01/07	6.60	--	92.84	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	09/06/07	7.12	--	92.32	<50	170	<95	<0.5	<0.7	<0.8	<0.8	0.6	--	--	--	--
	12/03/07	6.00	--	93.44	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	03/05/08	6.17	--	93.27	<50	<77	<96	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	06/11/08	6.02	0.00	93.42	<50	<75 ^b	<94 ^b	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	09/10/08	6.85	0.00	92.59	<50	<78	<97	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	12/10/08	Removed from sampling event this quarter.														
	03/31/09	6.17	0.00	93.27	--	--	--	--	--	--	--	--	--	--	--	--
	06/16/09	7.09	0.00	92.35	<50.0	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<0.010	<1.0	<1.0
196.77	09/29/09	7.71	0.00	189.06	<50.0	256	<396	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	--	--
	12/09/09	6.53	0.00	190.24	<50.0	142	<385	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--
	2/26/2010	6.39	0.00	190.38	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--
	6/4/2010	6.19	0.00	190.58	<50.0	81.3	<396	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--

TABLE 1
CULMULATIVE SUMMARY OF GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
 ConocoPhillips Facility No. 256380
 200 South 38th Street
 Bellingham, Washington

Well Name	Sample Date	Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons							Lead		
		Depth to Water	LPH	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)	EDC (µg/L)	EDB (µg/L)	Total Pb (µg/L)	Dissolved Pb (µg/L)	
MW-5 101.14	1/11/2006	4.04	--	97.10	<48	<75	<94	1.7	<0.2	<0.2	<0.6	--	--	--	<8.4	--	
	3/10/2006	3.81	--	97.33	65	<75	<94	13	0.2	<0.2	<0.6	--	--	--	--	--	
	06/30/06	4.46	--	96.68	57	<76	<95	8.6	<0.2	<0.2	<0.6	<5.0	--	--	--	--	
	03/07/07	3.48	--	97.66	<48	<76	<94	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	
	06/01/07	4.10	--	97.04	<50	--	--	<0.5	<0.7	<0.8	<0.8	0.6	--	--	--	--	
	09/06/07	4.43	--	96.71	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	
	12/03/07	4.64	--	96.50	<50	99	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	
	03/05/08	4.36	--	96.78	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	
	06/11/08	4.21	0.00	96.93	<50	91	<94	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
	09/10/08	4.30	0.00	96.84	<50	<78	<98	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	
	12/10/08	Removed from sampling event this quarter.			--	--	--	--	--	--	--	--	--	--	--	--	--
	03/31/09	4.45	0.00	96.69	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/18/09	4.80	0.00	96.34	<50.0	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<0.010	<1.0	<1.0	
	195.00	09/29/09	5.53	0.00	189.47	<50.0	183	<386	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	--	--
		12/09/09	4.33	0.00	190.67	Not part of the sampling schedule this reporting period.							--	--	--	--	
02/26/10		4.52	0.00	190.48	83.1	93.6	<385	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	
06/04/10		4.82	0.00	190.18	Not part of the sampling schedule this reporting period.							--	--	--	--		
MW-6 99.74	1/11/2006	4.89	--	94.85	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	--	--	--	<8.4	--	
	3/10/2006	5.47	--	94.27	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--	
	06/30/06	6.50	--	93.24	<48	<80	<100	<0.2	<0.2	<0.2	<0.6	<0.3	--	--	--	--	
	03/07/07	5.08	--	94.66	<48	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	
	06/10/07	5.73	--	94.01	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	
	09/06/07	6.22	--	93.52	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	
	12/03/07	5.46	--	94.28	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	
	03/05/08	5.46	--	94.28	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	
	06/11/08	5.39	0.00	94.35	<50	<76	250	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
	09/10/08	5.95	0.00	93.79	<50	<79	<98	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	
	12/10/08	Removed from sampling event this quarter.			--	--	--	--	--	--	--	--	--	--	--	--	--
	03/31/09	5.75	0.00	93.99	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/18/09	6.50	0.00	93.24	<50.0	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<0.010	<1.0	<1.0	
	196.52	09/29/09	7.04	0.00	189.48	<50.0	<78.4	<392	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	--	--
		12/09/09	5.87	0.00	190.65	<50.0	121	<385	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--
02/26/10		5.91	0.00	190.61	<50.0	<76.9	<385	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	
06/04/10		5.69	0.00	190.83	<50.0	<78.4	<392	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	

TABLE 1
CULMULATIVE SUMMARY OF GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
 ConocoPhillips Facility No. 256380
 200 South 36th Street
 Bellingham, Washington

Well Name	Sample Date	Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons							Lead	
		Depth to Water	LPH	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)	EDC (µg/L)	EDB (µg/L)	Total Pb (µg/L)	Dissolved Pb (µg/L)
MW-7	1/11/2006	6.07	--	93.57	160	780^b	<94 ^b	<0.2	<0.2	<0.2	<0.6	2.5	--	--	<8.4	--
99.64	3/10/2006	6.71	--	92.93	140	540	<94	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--
	06/30/06	7.31	--	92.33	190	1,000	<480	0.2	<0.2	<0.2	<0.6	2	--	--	--	--
	03/07/07	6.00	--	93.64	340	870	<94	<0.5	<0.7	<0.8	<0.8	0.7	--	--	--	--
	06/01/07	6.99	--	92.65	210	--	--	<0.5	<0.7	<0.8	<0.8	0.8	--	--	--	--
	09/06/07	7.47	--	92.17	250	1,000	160	<0.5	<0.7	<0.8	<0.8	0.8	--	--	--	--
	12/03/07	4.97	--	94.67	400	970	140	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	03/05/08	6.47	--	93.17	240	930	100	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	06/11/08	6.13	0.00	93.51	240	1,300	860	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	09/10/08	7.20	0.00	92.44	250	580	<97	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	12/10/08	6.88	0.00	92.76	260	460	<88	<0.5	<0.7	<0.8	<0.8	--	--	--	--	--
	03/31/09	6.62	0.00	93.02	352	220	<420	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--
	06/16/09	7.49	0.00	92.15	240	440	<390	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<0.010	<1.0	<1.0
196.93	09/29/09	7.97	0.00	188.96	134	839	566	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	--	--
	12/09/09	6.97	0.00	189.96	169	891	<385	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--
	02/26/10	6.74	0.00	190.19	190	1,120	518	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--
	06/04/10	6.50	0.00	190.43	151	1,200	<388	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--
MW-8	1/11/2006	7.00	--	95.70	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	--	--	--	<8.4	--
102.7	3/10/2006	7.50	--	95.20	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--
	06/30/06	7.97	--	94.73	<48	<77	<96	<0.2	<0.2	<0.2	<0.6	<0.3	--	--	--	--
	03/07/07	6.93	--	95.77	<48	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	06/01/07	7.77	--	94.93	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	09/06/07	8.45	--	94.25	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	12/03/07	7.51	--	95.19	<50	<76	290	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	03/05/08	7.30	--	95.40	<50	<150	860	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	06/11/08	7.22	0.00	95.48	<50 ^d	240	1,000	<0.5 ^d	0.7 ^d	<0.5 ^d	<0.5 ^d	<0.5 ^d	--	--	--	--
	09/10/08	8.20	0.00	94.50	<50	<79	<99	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	12/10/08	7.55	0.00	95.15	<50	<29	180	<0.5	<0.7	<0.8	<0.8	--	--	--	--	--
	03/31/09	7.10	0.00	95.60	<50.0	<82	<410	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--
	06/17/09	8.00	0.00	94.70	<50.0	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	2.8	<0.010	1.3	<1.0
197.48	09/29/09	8.89	0.00	188.59	<50.0	88.5	<388	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	--	--
	12/09/09	7.40	0.00	190.08	57.9	112	<385	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--
	02/26/10	7.40	0.00	190.08	<50.0	136	496	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--
	06/04/10	7.18	0.00	190.30	<50.0	99	<392	3.80	<1.0	<1.0	<3.0	--	--	--	--	--
MTCA Method A Cleanup Levels					1000/800^e	500	500	5	1000	700	1000	20	5	0.01	15	15

TABLE 1
CULMULATIVE SUMMARY OF GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
 ConocoPhillips Facility No. 256380
 200 South 38th Street
 Bellingham, Washington

Well Name	Sample Date	Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons						Lead	
		Depth to Water	LPH	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)	EDC (µg/L)	EDB (µg/L)	Total Pb (µg/L)

NOTES:

TOC = Top of Casing In feet

All concentrations are in micrograms per liter (µg/L) (ppb).

Wellhead elevations in feet were taken from prior consultant's reports.

LPH = Liquid phase hydrocarbon

DTW = Depth to water in feet below top of casing

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

TPH-G = Total Petroleum Hydrocarbons as Gasoline by Ecology Method NWTPH-Gx

TPH-D and TPH-O = Total Petroleum Hydrocarbons as Diesel and Oil, respectively, by Ecology Method NWTPH-Dx

B = Benzene; T = Toluene; E = Ethylbenzene; X = Total Xylenes

BTEX = Aromatic compounds by EPA Method 8020, 8021B or 8260B, refer to laboratory reports.

EDC = 1,2-Dichloroethane by EPA Method 8260B.

EDB = 1,2-Dibromoethane by EPA Method 8011.

Total Pb by EPA Method 6020; Diss Pb = Dissolved lead by EPA Method 6020

After 9/03/03 Total Pb = Total lead by ICP-USEPA Method 6010; Diss Pb = Dissolved lead by ICP-USEPA Method 6010

– = Not Analyzed or Sampled

< = Less than the stated laboratory reporting limit

Shaded values equal or exceed MTCA Method A Cleanup Levels.

^a Concentration levels stated by MTCA Method A for TPH-G are 1000 µg/L when no benzene is present and 800 µg/L when benzene is present.

Data collected before 12/12/03 are taken from prior consultants.

^b The recovery for the laboratory control sample (LCS) with this sample is below quality control limits. Since no sample remained for a reextraction the data is reported.

^c Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

^d Preservation requirements were not met. The vial submitted for volatile analysis did not have a pH < 2 at the time of analyses. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt. The pH of this sample was pH=6.

^e The laboratory reporting limits (RLs) are above current MTCA Method A cleanup levels

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
CP 256380 (RM&R 01571) Bellingham, Washington

Name(s) D. Reitz Date: 06/04/10 Time of Arrival Call-In: 0800
Arrival Time: 0500 Departure Time: 1040 Time of Departure Call-In: 1030
Who did you call? T. Parise

DRUM INVENTORY

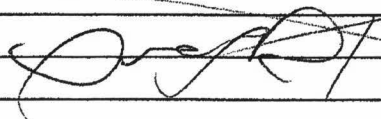
<u>1</u>	WATER		CARBON	TOTAL OPEN TOP
	SOIL		EMPTY	TOTAL BUNG TOP <u>1</u>

HEALTH AND SAFETY ASSESSMENT

Don P. P. E.
Set-up Decon. Station
Review HASP & J.S.A.

DESCRIPTION OF ACTIVITIES ONSITE AND NOTES

0500 Arrive on site. Meet with site-contact. Perform tailgate safety meeting. Don appropriate PPE. Set-up decon station. Purchase ice.
0530 Initiate gauging of physical measurements at 8 GUM wells prior to 2010 GUM sample procedures.
0630 Initiate 2010 GUM sample procedures at 6 GUM wells after completion of gauge procedures.
0800 Call-in to office.
1000 Complete 2010 GUM sample procedures. Decon. equipment and release purge water/decon. rinsates into staged drum. Label drum.
1015 Load equipment into truck & pack samples cooler.
1030 Call-in to office and check-out with site-contact.
1040 Depart job site.
1230 Drop samples at lab.

 06/04/10

Stantec Consulting Corporation

HYDROLOGIC DATA SHEET

Gauge Date: 06/03/10

Project Name: CP RM&R 1571 Bellingham

Field Technician: David Reitz

Project Number: 212302382

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 N

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

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
MW-1		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	0530	-	5.16	22.60	Y	N	Y	
MW-2		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	0540	-	7.76	20.80	N	N	N	
MW-3		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	0550	-	4.91	21.00	Y	N	Y	
MW-4		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	0620	-	6.19	20.40	Y	N	Y	
MW-5		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	0600	-	4.82	13.70	N	N	N	
MW-6		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	0610	-	5.69	13.90	Y	N	Y	
MW-7		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	0630	-	6.50	17.90	Y	N	Y	
MW-8		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	0610	-	7.18	17.50	Y	N	Y	

STANTEC Consulting Corporation

WATER SAMPLE FIELD DATA SHEET

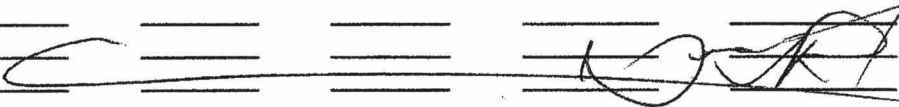
PROJECT #: 212302382 PURGED BY: D. Reitz WELL I.D.: MLW-1
 CLIENT NAME: COP SAMPLED BY: D. Reitz SAMPLE I.D.: MLW-1
 LOCATION: 200 S. 36th St. Bellingham, WA

DATE PURGED 06/04/01 START (2400hr) 0640 END (2400hr) 0710
 DATE SAMPLED 06/04/01 SAMPLE TIME (2400hr) 0655 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) = 22.60
 DEPTH TO WATER (feet) = 5.16
 WATER COLUMN HEIGHT (feet) = 17.44 ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (ML)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
<u>06/04/10</u>	<u>0645</u>	<u>800</u>	<u>15.1</u>	<u>0.083</u>	<u>5.91</u>	<u>Clr</u>
	<u>0648</u>	<u>500</u>	<u>16.4</u>	<u>0.082</u>	<u>5.87</u>	<u>Clr</u>
	<u>0651</u>	<u>500</u>	<u>16.6</u>	<u>0.083</u>	<u>5.88</u>	<u>Clr</u>
	<u>0654</u>	<u>500</u>	<u>16.4</u>	<u>0.084</u>	<u>5.89</u>	<u>Clr</u>
						
Calculated Variance of Final Three Samples:			<u>0.2</u>	<u>0.002</u>	<u>0.02</u>	
Acceptable Variance Limits:			<u>≤ 10%</u>	<u>≤ 3%</u>	<u>≤ 0.1</u>	

DEPTH TO PURGE INTAKE DURING PURGE: 18.00 SAMPLE DTW: 5.44

ANTICIPATED PURGE INTAKE DEPTH: 18.00 ANALYSES: TPH-G, TPH-D, BTEX by 8260B

SAMPLE VESSEL / PRESERVATIVE: _____

PURGING EQUIPMENT: Horiba water meter SAMPLING EQUIPMENT: _____
Peristaltic pump 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] Page 1 of 1

STANTEC Consulting Corporation

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 212302382 PURGED BY: D. Reitz WELL I.D.: MW-3
 CLIENT NAME: COP SAMPLED BY: D. Reitz SAMPLE I.D.: MW-3
 LOCATION: 200 S. 36th St. Bellingham, WA

DATE PURGED 06, 04, 10 START (2400hr) 0710 END (2400hr) 0735
 DATE SAMPLED 06, 04, 10 SAMPLE TIME (2400hr) 0725 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) = 21.00
 DEPTH TO WATER (feet) = 4.91
 WATER COLUMN HEIGHT (feet) = 16.09 ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (ML)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
<u>06/04/10</u>	<u>0715</u>	<u>200</u>	<u>14.4</u>	<u>0.086</u>	<u>6.16</u>	<u>Clr</u>
	<u>0718</u>	<u>500</u>	<u>14.6</u>	<u>0.085</u>	<u>6.14</u>	<u>Clr</u>
	<u>0721</u>	<u>500</u>	<u>14.8</u>	<u>0.085</u>	<u>6.15</u>	<u>Clr</u>
	<u>0724</u>	<u>500</u>	<u>14.4</u>	<u>0.086</u>	<u>6.15</u>	<u>Clr</u>
Calculated Variance of Final Three Samples:			<u>0.4</u>	<u>0.001</u>	<u>0.01</u>	
Acceptable Variance Limits:			<u>≤ 10%</u>	<u>≤ 3%</u>	<u>≤ 0.1</u>	

[Signature] 06/04/10

DEPTH TO PURGE INTAKE DURING PURGE: 16.00 SAMPLE DTW: 4.97

ANTICIPATED PURGE INTAKE DEPTH: 16.00 ANALYSES: TPH-G, TPH-D, BTEX by 8260B

SAMPLE VESSEL / PRESERVATIVE: _____

PURGING EQUIPMENT:
Horibag water meter
Peristaltic pump
 Flow Through Cell Disconnected Prior to Sample Collection?: YES X NO _____

SAMPLING EQUIPMENT:
Interface probe
Peristaltic pump

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]*

STANTEC Consulting Corporation

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 212302382 PURGED BY: D. Ratz WELL I.D.: MW-6
 CLIENT NAME: COP SAMPLED BY: D. Ratz SAMPLE I.D.: MW-6
 LOCATION: 200 S. 36th St, Bellingham, WA

DATE PURGED 06/04/10 START (2400hr) 0805 END (2400hr) 0835
 DATE SAMPLED 06/04/10 SAMPLE TIME (2400hr) 0820 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) = 13.90
 DEPTH TO WATER (feet) = 5.69
 WATER COLUMN HEIGHT (feet) = 8.21 ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (ML)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
<u>06/04/10</u>	<u>0810</u>	<u>800</u>	<u>15.0</u>	<u>0.083</u>	<u>6.07</u>	<u>Clr</u>
	<u>0813</u>	<u>500</u>	<u>15.3</u>	<u>0.083</u>	<u>6.11</u>	<u>Clr</u>
	<u>0816</u>	<u>500</u>	<u>14.6</u>	<u>0.084</u>	<u>6.13</u>	<u>Clr</u>
	<u>0819</u>	<u>500</u>	<u>14.6</u>	<u>0.084</u>	<u>6.12</u>	<u>Clr</u>
Calculated Variance of Final Three Samples:			<u>0.7</u>	<u>0.001</u>	<u>0.02</u>	
Acceptable Variance Limits:			<u>≤ 10%</u>	<u>≤ 3%</u>	<u>≤ 0.1</u>	

DEPTH TO PURGE INTAKE DURING PURGE: 9.00 SAMPLE DTW: 5.82

ANTICIPATED PURGE INTAKE DEPTH: 9.00 ANALYSES: TPH-G, TPH-D, BTEX by 8260B

SAMPLE VESSEL / PRESERVATIVE: _____

PURGING EQUIPMENT:
Horiba water meter
Peristaltic pump
 Flow Through Cell Disconnected prior to Sample Collection?: YES X NO _____

SAMPLING EQUIPMENT:
Interface probe
Peristaltic pump
 YES _____ 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] Page 1 of 1

STANTEC Consulting Corporation

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 212302382 PURGED BY: D. Reitz WELL I.D.: MW-7
 CLIENT NAME: COP SAMPLED BY: D. Reitz SAMPLE I.D.: MW-7
 LOCATION: 200 S. 36th St. Bellingham, WA

DATE PURGED 06/04/10 START (2400hr) 0915 END (2400hr) 0950
 DATE SAMPLED 06/04/10 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) = 17.90
 DEPTH TO WATER (feet) = 6.50
 WATER COLUMN HEIGHT (feet) = 11.40 ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (ML)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
<u>06/04/10</u>	<u>0920</u>	<u>800</u>	<u>14.4</u>	<u>0.088</u>	<u>6.06</u>	<u>Clr</u>
	<u>0923</u>	<u>500</u>	<u>14.4</u>	<u>0.084</u>	<u>6.04</u>	<u>Clr</u>
	<u>0926</u>	<u>500</u>	<u>14.2</u>	<u>0.084</u>	<u>6.05</u>	<u>Clr</u>
	<u>0929</u>	<u>500</u>	<u>14.2</u>	<u>0.084</u>	<u>6.05</u>	<u>Clr</u>
Calculated Variance of Final Three Samples:			<u>0.2</u>	<u>0</u>	<u>0.01</u>	
Acceptable Variance Limits:			<u>≤ 10%</u>	<u>≤ 3%</u>	<u>≤ 0.1</u>	

DEPTH TO PURGE INTAKE DURING PURGE: 13.00 SAMPLE DTW: 6.73

ANTICIPATED PURGE INTAKE DEPTH: 13.00 ANALYSES: TPH-G, TPH-D, BTEX by 8260B

SAMPLE VESSEL / PRESERVATIVE: _____

PURGING EQUIPMENT:
Horiba water meter
Peristaltic pump Interface probe
 Flow Through Cell Disconnected Prior to Sample Collection?: YES X NO _____

SAMPLING EQUIPMENT:
Peristaltic pump
 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]

STANTEC Consulting Corporation

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 212302382 PURGED BY: D. Reitz WELL I.D.: MLW-8
 CLIENT NAME: COP SAMPLED BY: D. Reitz SAMPLE I.D.: MLW-8
 LOCATION: 200 S. 36th St. Bellingham, WA.

DATE PURGED 06/04/10 START (2400hr) 0840 END (2400hr) 0910
 DATE SAMPLED 06/04/10 SAMPLE TIME (2400hr) 0855 LOW-FLOW USED
 SAMPLE TYPE: Groundwater Surface Water Treatment Effluent Other

CASING DIAMETER: 2" 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) = 17.50
 DEPTH TO WATER (feet) = 7.18
 WATER COLUMN HEIGHT (feet) = 10.32 ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (ML)	TEMP. (degrees E)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
<u>06/04/10</u>	<u>0845</u>	<u>800</u>	<u>15.1</u>	<u>0.085</u>	<u>6.20</u>	<u>Clr</u>
	<u>0848</u>	<u>500</u>	<u>15.4</u>	<u>0.088</u>	<u>6.18</u>	<u>Clr</u>
	<u>0851</u>	<u>500</u>	<u>14.9</u>	<u>0.089</u>	<u>6.17</u>	<u>Clr</u>
	<u>0854</u>	<u>500</u>	<u>15.2</u>	<u>0.090</u>	<u>6.16</u>	<u>Clr</u>
<i>[Signature]</i> <u>06/04/10</u>						
Calculated Variance of Final Three Samples:			<u>0.5</u>	<u>0.002</u>	<u>0.02</u>	
Acceptable Variance Limits:			<u>≤ 10%</u>	<u>≤ 3%</u>	<u>≤ 0.1</u>	

DEPTH TO PURGE INTAKE DURING PURGE: 12.00 SAMPLE DTW: 7.43

ANTICIPATED PURGE INTAKE DEPTH: 12.00 ANALYSES: TPH-G, TPH-D, BTEX by 8260B

SAMPLE VESSEL / PRESERVATIVE: _____

PURGING EQUIPMENT:

Horiba water meter
Peristaltic pump
Interface probe

SAMPLING EQUIPMENT:

Peristaltic pump

Flow Through Cell Disconnected Prior to Sample Collection? YES 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]

Chain Of Custody Record

PACE Analytical Laboratory
 940 S. Harney Street, Seattle, WA
 (206) 767-5060

INVOICE REMITTANCE ADDRESS:	Purchase Order #	4512896507	DATE: 06/04/10
	ConocoPhillips AOC#		PAGE: 1 of 1
	01571		
	Stantec Attn: Chris Gdak 12034 134th Court NE, Suite 102 Redmond, WA 98052		

SAMPLING COMPANY: STANTEC	Valid Value ID:	CONOCOPHILLIPS SITE NUMBER AOC 01571	GLOBAL ID NO.:
ADDRESS: 12034 134th Court NE, Suite 102 Redmond, WA 98052		SITE ADDRESS (Street and City): 200 South 36th Street, Bellingham, WA 98225	ConocoPhillips Manager Myron Smith
PROJECT CONTACT (Hardcopy or PDF Report to): Chris Gdak		EDF DELIVERABLE TO (RP or Designee):	PHONE NO.:
TELEPHONE: (425) 298-1023	FAX: (425) 298-1020	E-MAIL: chris.gdak@stantec.com	E-MAIL:
SAMPLER NAME(S) (Print): David Reitz	CONSULTANT PROJECT NUMBER: 212302382	REQUESTED ANALYSES	

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

* Field Point name only required if different from Sample ID

LAB USE ONLY	Field Point Name	Sample ID	SAMPLING		MATRIX	NO. OF CONT.	NWTPH-Gx	NWTPH-Dx	BTEX by 8260B	REQUESTED ANALYSES												TEMPERATURE ON RECEIPT C°		
			DATE	TIME																				
		MW-1	06/04/10	0655	GW	7	X	X	X															
		MW-3	"	0725	GW	7	X	X	X															
		MW-4	"	0750	GW	7	X	X	X															
		MW-6	"	0820	GW	7	X	X	X															
		MW-7	"	0930	GW	7	X	X	X															
		MW-8	"	0855	GW	7	X	X	X															
		QCTB			DI	6	X		X															

Released by: (Signature)	Received by: (Signature)	Date: 06/04/10	Time: 1230
Released by: (Signature)	Received by: (Signature)	Date:	Time:
Released by: (Signature)	Received by: (Signature)	Date:	Time:

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

June 16, 2010

Chris Gdak
Stantec
12034 134th Ct NE, Suite 102
Redmond, WA 98052

RE: Project: 01571 - Bellingham
Pace Project No.: 253873

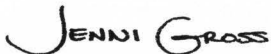
Dear Chris Gdak:

Enclosed are the analytical results for sample(s) received by the laboratory on June 04, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

One of six VOA vials for the Trip Blank were received out of EPA compliance for head space. Sufficient sample volume was submitted for analysis requested, no further action was taken.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jennifer Gross

jennifer.gross@pacelabs.com
Project Manager

Enclosures

cc: Andrea Donnell, COP_Stantec Washington
Tammy Parise, COP_Stantec Washington

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 01571 - Bellingham
Pace Project No.: 253873

Washington Certification IDs

940 South Harney Street Seattle, WA 98108
Washington Certification #: C1229
Oregon Certification #: WA200007
Alaska CS Certification #: UST-025

California Certification #: 01153CA
Alaska Drinking Water Micro Certification #: WA01230
Alaska Drinking Water VOC Certification #: WA01-09
Florida/NELAP Certification #: E87617

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SAMPLE ANALYTE COUNT

Project: 01571 - Bellingham
Pace Project No.: 253873

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
253873001	MW-1	NWTPH-Dx	ERB	4	PASI-S
		NWTPH-Gx	LPM	3	PASI-S
		EPA 5030B/8260	LPM	8	PASI-S
253873002	MW-3	NWTPH-Dx	ERB	4	PASI-S
		NWTPH-Gx	LPM	3	PASI-S
		EPA 5030B/8260	LPM	8	PASI-S
253873003	MW-4	NWTPH-Dx	ERB	4	PASI-S
		NWTPH-Gx	LPM	3	PASI-S
		EPA 5030B/8260	LPM	8	PASI-S
253873004	MW-6	NWTPH-Dx	ERB	4	PASI-S
		NWTPH-Gx	LPM	3	PASI-S
		EPA 5030B/8260	LPM	8	PASI-S
253873005	MW-7	NWTPH-Dx	ERB	4	PASI-S
		NWTPH-Gx	LPM	3	PASI-S
		EPA 5030B/8260	LPM	8	PASI-S
253873006	MW-8	NWTPH-Dx	ERB	4	PASI-S
		NWTPH-Gx	LPM	3	PASI-S
		EPA 5030B/8260	LPM	8	PASI-S
253873007	QC TB	NWTPH-Gx	LPM	3	PASI-S
		EPA 5030B/8260	LPM	8	PASI-S

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 01571 - Bellingham
Pace Project No.: 253873

Sample: MW-1		Lab ID: 253873001	Collected: 06/04/10 06:55	Received: 06/04/10 12:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510						
Diesel Range	187 ug/L		78.4	1	06/07/10 15:00	06/08/10 22:43		
Motor Oil Range	ND ug/L		392	1	06/07/10 15:00	06/08/10 22:43	64742-65-0	
n-Octacosane (S)	77 %		50-150	1	06/07/10 15:00	06/08/10 22:43	630-02-4	
o-Terphenyl (S)	76 %		50-150	1	06/07/10 15:00	06/08/10 22:43	84-15-1	
NWTPH-Gx GCV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	ND ug/L		50.0	1		06/08/10 04:08		
a,a,a-Trifluorotoluene (S)	102 %		50-150	1		06/08/10 04:08	98-08-8	
4-Bromofluorobenzene (S)	91 %		50-150	1		06/08/10 04:08	460-00-4	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND ug/L		1.0	1		06/07/10 14:34	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		06/07/10 14:34	100-41-4	
Toluene	ND ug/L		1.0	1		06/07/10 14:34	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		06/07/10 14:34	1330-20-7	
4-Bromofluorobenzene (S)	105 %		80-120	1		06/07/10 14:34	460-00-4	
Dibromofluoromethane (S)	95 %		80-122	1		06/07/10 14:34	1868-53-7	
1,2-Dichloroethane-d4 (S)	118 %		80-124	1		06/07/10 14:34	17060-07-0	
Toluene-d8 (S)	102 %		80-123	1		06/07/10 14:34	2037-26-5	

Sample: MW-3		Lab ID: 253873002	Collected: 06/04/10 07:25	Received: 06/04/10 12:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510						
Diesel Range	111 ug/L		78.4	1	06/07/10 15:00	06/08/10 22:59		
Motor Oil Range	ND ug/L		392	1	06/07/10 15:00	06/08/10 22:59	64742-65-0	
n-Octacosane (S)	101 %		50-150	1	06/07/10 15:00	06/08/10 22:59	630-02-4	
o-Terphenyl (S)	95 %		50-150	1	06/07/10 15:00	06/08/10 22:59	84-15-1	
NWTPH-Gx GCV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	ND ug/L		50.0	1		06/08/10 04:31		
a,a,a-Trifluorotoluene (S)	98 %		50-150	1		06/08/10 04:31	98-08-8	
4-Bromofluorobenzene (S)	92 %		50-150	1		06/08/10 04:31	460-00-4	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND ug/L		1.0	1		06/07/10 14:57	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		06/07/10 14:57	100-41-4	
Toluene	ND ug/L		1.0	1		06/07/10 14:57	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		06/07/10 14:57	1330-20-7	
4-Bromofluorobenzene (S)	107 %		80-120	1		06/07/10 14:57	460-00-4	
Dibromofluoromethane (S)	96 %		80-122	1		06/07/10 14:57	1868-53-7	
1,2-Dichloroethane-d4 (S)	117 %		80-124	1		06/07/10 14:57	17060-07-0	
Toluene-d8 (S)	101 %		80-123	1		06/07/10 14:57	2037-26-5	

Date: 06/16/2010 03:16 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 01571 - Bellingham
Pace Project No.: 253873

Sample: MW-4		Lab ID: 253873003	Collected: 06/04/10 07:50	Received: 06/04/10 12:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510						
Diesel Range	81.3 ug/L		79.2	1	06/09/10 13:00	06/11/10 02:59		
Motor Oil Range	ND ug/L		396	1	06/09/10 13:00	06/11/10 02:59	64742-65-0	
n-Octacosane (S)	96 %		50-150	1	06/09/10 13:00	06/11/10 02:59	630-02-4	
o-Terphenyl (S)	88 %		50-150	1	06/09/10 13:00	06/11/10 02:59	84-15-1	
NWTPH-Gx GCV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	ND ug/L		50.0	1		06/08/10 04:55		
a,a,a-Trifluorotoluene (S)	100 %		50-150	1		06/08/10 04:55	98-08-8	
4-Bromofluorobenzene (S)	95 %		50-150	1		06/08/10 04:55	460-00-4	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND ug/L		1.0	1		06/07/10 15:20	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		06/07/10 15:20	100-41-4	
Toluene	ND ug/L		1.0	1		06/07/10 15:20	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		06/07/10 15:20	1330-20-7	
4-Bromofluorobenzene (S)	107 %		80-120	1		06/07/10 15:20	460-00-4	
Dibromofluoromethane (S)	93 %		80-122	1		06/07/10 15:20	1868-53-7	
1,2-Dichloroethane-d4 (S)	117 %		80-124	1		06/07/10 15:20	17060-07-0	
Toluene-d8 (S)	100 %		80-123	1		06/07/10 15:20	2037-26-5	

Sample: MW-6		Lab ID: 253873004	Collected: 06/04/10 08:20	Received: 06/04/10 12:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510						
Diesel Range	ND ug/L		78.4	1	06/09/10 13:00	06/11/10 03:47		
Motor Oil Range	ND ug/L		392	1	06/09/10 13:00	06/11/10 03:47	64742-65-0	
n-Octacosane (S)	100 %		50-150	1	06/09/10 13:00	06/11/10 03:47	630-02-4	
o-Terphenyl (S)	93 %		50-150	1	06/09/10 13:00	06/11/10 03:47	84-15-1	
NWTPH-Gx GCV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	ND ug/L		50.0	1		06/08/10 05:19		
a,a,a-Trifluorotoluene (S)	101 %		50-150	1		06/08/10 05:19	98-08-8	
4-Bromofluorobenzene (S)	95 %		50-150	1		06/08/10 05:19	460-00-4	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND ug/L		1.0	1		06/07/10 15:43	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		06/07/10 15:43	100-41-4	
Toluene	ND ug/L		1.0	1		06/07/10 15:43	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		06/07/10 15:43	1330-20-7	
4-Bromofluorobenzene (S)	108 %		80-120	1		06/07/10 15:43	460-00-4	
Dibromofluoromethane (S)	93 %		80-122	1		06/07/10 15:43	1868-53-7	
1,2-Dichloroethane-d4 (S)	116 %		80-124	1		06/07/10 15:43	17060-07-0	
Toluene-d8 (S)	103 %		80-123	1		06/07/10 15:43	2037-26-5	

Date: 06/16/2010 03:16 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 01571 - Bellingham
Pace Project No.: 253873

Sample: MW-7		Lab ID: 253873005	Collected: 06/04/10 09:30	Received: 06/04/10 12:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510						
Diesel Range	1200 ug/L		77.7	1	06/09/10 13:00	06/11/10 04:03		
Motor Oil Range	ND ug/L		388	1	06/09/10 13:00	06/11/10 04:03	64742-65-0	
n-Octacosane (S)	103 %		50-150	1	06/09/10 13:00	06/11/10 04:03	630-02-4	
o-Terphenyl (S)	101 %		50-150	1	06/09/10 13:00	06/11/10 04:03	84-15-1	
NWTPH-Gx GCV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	151 ug/L		50.0	1		06/08/10 05:42		
a,a,a-Trifluorotoluene (S)	97 %		50-150	1		06/08/10 05:42	98-08-8	
4-Bromofluorobenzene (S)	94 %		50-150	1		06/08/10 05:42	460-00-4	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND ug/L		1.0	1		06/07/10 16:06	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		06/07/10 16:06	100-41-4	
Toluene	ND ug/L		1.0	1		06/07/10 16:06	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		06/07/10 16:06	1330-20-7	
4-Bromofluorobenzene (S)	107 %		80-120	1		06/07/10 16:06	460-00-4	
Dibromofluoromethane (S)	98 %		80-122	1		06/07/10 16:06	1868-53-7	
1,2-Dichloroethane-d4 (S)	123 %		80-124	1		06/07/10 16:06	17060-07-0	
Toluene-d8 (S)	103 %		80-123	1		06/07/10 16:06	2037-26-5	

Sample: MW-8		Lab ID: 253873006	Collected: 06/04/10 08:55	Received: 06/04/10 12:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510						
Diesel Range	99.0 ug/L		78.4	1	06/09/10 13:00	06/11/10 04:19		
Motor Oil Range	ND ug/L		392	1	06/09/10 13:00	06/11/10 04:19	64742-65-0	
n-Octacosane (S)	103 %		50-150	1	06/09/10 13:00	06/11/10 04:19	630-02-4	
o-Terphenyl (S)	94 %		50-150	1	06/09/10 13:00	06/11/10 04:19	84-15-1	
NWTPH-Gx GCV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	ND ug/L		50.0	1		06/08/10 06:06		
a,a,a-Trifluorotoluene (S)	101 %		50-150	1		06/08/10 06:06	98-08-8	
4-Bromofluorobenzene (S)	95 %		50-150	1		06/08/10 06:06	460-00-4	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	3.8 ug/L		1.0	1		06/07/10 16:29	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		06/07/10 16:29	100-41-4	
Toluene	ND ug/L		1.0	1		06/07/10 16:29	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		06/07/10 16:29	1330-20-7	
4-Bromofluorobenzene (S)	104 %		80-120	1		06/07/10 16:29	460-00-4	
Dibromofluoromethane (S)	97 %		80-122	1		06/07/10 16:29	1868-53-7	
1,2-Dichloroethane-d4 (S)	121 %		80-124	1		06/07/10 16:29	17060-07-0	
Toluene-d8 (S)	103 %		80-123	1		06/07/10 16:29	2037-26-5	

ANALYTICAL RESULTS

Project: 01571 - Bellingham
Pace Project No.: 253873

Sample: QC TB		Lab ID: 253873007	Collected: 06/04/10 00:00	Received: 06/04/10 12:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	ND	ug/L	50.0	1		06/09/10 04:47		
a,a,a-Trifluorotoluene (S)	105	%	50-150	1		06/09/10 04:47	98-08-8	
4-Bromofluorobenzene (S)	97	%	50-150	1		06/09/10 04:47	460-00-4	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND	ug/L	1.0	1		06/07/10 10:45	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/07/10 10:45	100-41-4	
Toluene	ND	ug/L	1.0	1		06/07/10 10:45	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/07/10 10:45	1330-20-7	
4-Bromofluorobenzene (S)	99	%	80-120	1		06/07/10 10:45	460-00-4	
Dibromofluoromethane (S)	92	%	80-122	1		06/07/10 10:45	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	80-124	1		06/07/10 10:45	17060-07-0	
Toluene-d8 (S)	102	%	80-123	1		06/07/10 10:45	2037-26-5	

QUALITY CONTROL DATA

Project: 01571 - Bellingham
Pace Project No.: 253873

QC Batch: OEXT/2240 Analysis Method: NWTPH-Dx
QC Batch Method: EPA 3510 Analysis Description: NWTPH-Dx GCS
Associated Lab Samples: 253873001, 253873002

METHOD BLANK: 29389 Matrix: Water
Associated Lab Samples: 253873001, 253873002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range	ug/L	ND	80.0	06/08/10 17:10	
Motor Oil Range	ug/L	ND	400	06/08/10 17:10	
n-Octacosane (S)	%	105	50-150	06/08/10 17:10	
o-Terphenyl (S)	%	95	50-150	06/08/10 17:10	

LABORATORY CONTROL SAMPLE & LCSD: 29390 29391

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range	ug/L	5000	4900	4980	98	100	51-147	2	30	
Motor Oil Range	ug/L	5000	5100	5250	102	105	20-160	3	30	
n-Octacosane (S)	%				90	99	50-150			
o-Terphenyl (S)	%				109	112	50-150			

QUALITY CONTROL DATA

Project: 01571 - Bellingham
Pace Project No.: 253873

QC Batch: OEXT/2247 Analysis Method: NWTPH-Dx
QC Batch Method: EPA 3510 Analysis Description: NWTPH-Dx GCS
Associated Lab Samples: 253873003, 253873004, 253873005, 253873006

METHOD BLANK: 29601 Matrix: Water
Associated Lab Samples: 253873003, 253873004, 253873005, 253873006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range	ug/L	ND	80.0	06/11/10 02:11	
Motor Oil Range	ug/L	ND	400	06/11/10 02:11	
n-Octacosane (S)	%	109	50-150	06/11/10 02:11	
o-Terphenyl (S)	%	97	50-150	06/11/10 02:11	

LABORATORY CONTROL SAMPLE & LCSD: 29602 29603

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range	ug/L	5000	4390	3970	88	79	51-147	10	30	
Motor Oil Range	ug/L	5000	4770	4110	95	82	20-160	15	30	
n-Octacosane (S)	%				92	81	50-150			
o-Terphenyl (S)	%				109	95	50-150			

QUALITY CONTROL DATA

Project: 01571 - Bellingham
Pace Project No.: 253873

QC Batch: GCV/1573 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx GCV Water
Associated Lab Samples: 253873001, 253873002, 253873003, 253873004, 253873005, 253873006

METHOD BLANK: 29472 Matrix: Water
Associated Lab Samples: 253873001, 253873002, 253873003, 253873004, 253873005, 253873006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	ND	50.0	06/08/10 00:11	
4-Bromofluorobenzene (S)	%	104	50-150	06/08/10 00:11	
a,a,a-Trifluorotoluene (S)	%	105	50-150	06/08/10 00:11	

LABORATORY CONTROL SAMPLE: 29473

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	250	232	93	50-163	
4-Bromofluorobenzene (S)	%			95	50-150	
a,a,a-Trifluorotoluene (S)	%			102	50-150	

SAMPLE DUPLICATE: 29515

Parameter	Units	253842005 Result	Dup Result	RPD	Qualifiers
Gasoline Range Organics	ug/L	84.6	76.2	10	
4-Bromofluorobenzene (S)	%	99	100	1	
a,a,a-Trifluorotoluene (S)	%	104	103	1	

SAMPLE DUPLICATE: 29516

Parameter	Units	253872003 Result	Dup Result	RPD	Qualifiers
Gasoline Range Organics	ug/L	ND	20.6J		
4-Bromofluorobenzene (S)	%	93	90	4	
a,a,a-Trifluorotoluene (S)	%	98	100	2	

QUALITY CONTROL DATA

Project: 01571 - Bellingham
Pace Project No.: 253873

QC Batch: GCV/1575 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx GCV Water
Associated Lab Samples: 253873007

METHOD BLANK: 29532 Matrix: Water
Associated Lab Samples: 253873007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	ND	50.0	06/09/10 03:36	
4-Bromofluorobenzene (S)	%	94	50-150	06/09/10 03:36	
a,a,a-Trifluorotoluene (S)	%	106	50-150	06/09/10 03:36	

LABORATORY CONTROL SAMPLE: 29533

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	250	255	102	50-163	
4-Bromofluorobenzene (S)	%			95	50-150	
a,a,a-Trifluorotoluene (S)	%			109	50-150	

SAMPLE DUPLICATE: 29668

Parameter	Units	253875002 Result	Dup Result	RPD	Qualifiers
Gasoline Range Organics	ug/L	111	113	2	
4-Bromofluorobenzene (S)	%	93	101	8	
a,a,a-Trifluorotoluene (S)	%	99	104	5	

SAMPLE DUPLICATE: 29669

Parameter	Units	253876002 Result	Dup Result	RPD	Qualifiers
Gasoline Range Organics	ug/L	ND	ND		
4-Bromofluorobenzene (S)	%	89	99	11	
a,a,a-Trifluorotoluene (S)	%	100	106	6	

QUALITY CONTROL DATA

Project: 01571 - Bellingham
Pace Project No.: 253873

QC Batch: MSV/2453 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 253873001, 253873002, 253873003, 253873004, 253873005, 253873006, 253873007

METHOD BLANK: 29377 Matrix: Water
Associated Lab Samples: 253873001, 253873002, 253873003, 253873004, 253873005, 253873006, 253873007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	06/07/10 10:00	
Ethylbenzene	ug/L	ND	1.0	06/07/10 10:00	
Toluene	ug/L	ND	1.0	06/07/10 10:00	
Xylene (Total)	ug/L	ND	3.0	06/07/10 10:00	
1,2-Dichloroethane-d4 (S)	%	111	80-124	06/07/10 10:00	
4-Bromofluorobenzene (S)	%	101	80-120	06/07/10 10:00	
Dibromofluoromethane (S)	%	98	80-122	06/07/10 10:00	
Toluene-d8 (S)	%	108	80-123	06/07/10 10:00	

LABORATORY CONTROL SAMPLE: 29378

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	23.2	116	75-124	
Ethylbenzene	ug/L	20	21.5	108	76-124	
Toluene	ug/L	20	21.1	105	75-124	
Xylene (Total)	ug/L	60	64.6	108	76-123	
1,2-Dichloroethane-d4 (S)	%			103	80-124	
4-Bromofluorobenzene (S)	%			93	80-120	
Dibromofluoromethane (S)	%			103	80-122	
Toluene-d8 (S)	%			102	80-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 29387 29388

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		253842001 Result	Spike Conc.	Spike Conc.	MS Result					
Benzene	ug/L	ND	20	20	25.4	25.8	127	129	75-124	1 M0
Ethylbenzene	ug/L	ND	20	20	23.5	23.5	118	117	76-124	.4
Toluene	ug/L	ND	20	20	22.6	21.4	113	107	75-124	5
Xylene (Total)	ug/L	ND	60	60	69.0	71.1	115	118	76-123	3
1,2-Dichloroethane-d4 (S)	%						111	112	80-124	
4-Bromofluorobenzene (S)	%						108	101	80-120	
Dibromofluoromethane (S)	%						102	111	80-122	
Toluene-d8 (S)	%						100	96	80-123	

QUALIFIERS

Project: 01571 - Bellingham
Pace Project No.: 253873

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-S Pace Analytical Services - Seattle

BATCH QUALIFIERS

Batch: GCSV/1652

[1] A sample duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 01571 - Bellingham
Pace Project No.: 253873

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
253873001	MW-1	EPA 3510	OEXT/2240	NWTPH-Dx	GCSV/1645
253873002	MW-3	EPA 3510	OEXT/2240	NWTPH-Dx	GCSV/1645
253873003	MW-4	EPA 3510	OEXT/2247	NWTPH-Dx	GCSV/1652
253873004	MW-6	EPA 3510	OEXT/2247	NWTPH-Dx	GCSV/1652
253873005	MW-7	EPA 3510	OEXT/2247	NWTPH-Dx	GCSV/1652
253873006	MW-8	EPA 3510	OEXT/2247	NWTPH-Dx	GCSV/1652
253873001	MW-1	NWTPH-Gx	GCV/1573		
253873002	MW-3	NWTPH-Gx	GCV/1573		
253873003	MW-4	NWTPH-Gx	GCV/1573		
253873004	MW-6	NWTPH-Gx	GCV/1573		
253873005	MW-7	NWTPH-Gx	GCV/1573		
253873006	MW-8	NWTPH-Gx	GCV/1573		
253873007	QC TB	NWTPH-Gx	GCV/1575		
253873001	MW-1	EPA 5030B/8260	MSV/2453		
253873002	MW-3	EPA 5030B/8260	MSV/2453		
253873003	MW-4	EPA 5030B/8260	MSV/2453		
253873004	MW-6	EPA 5030B/8260	MSV/2453		
253873005	MW-7	EPA 5030B/8260	MSV/2453		
253873006	MW-8	EPA 5030B/8260	MSV/2453		
253873007	QC TB	EPA 5030B/8260	MSV/2453		



Sample Condition Upon Receipt

Client Name: Stantec Project # 253873

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____
Tracking #: _____

Optional:
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used Horiba 132013 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 4.2
Temp should be above freezing to 5°C

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 6/4/10 nre

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>Water</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: <u>VOA</u> coliform, TOC, O&G, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15. <u>1 of 6 Trip blanks received with headspace.</u>
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Field Data Required? Y / N

Client Notification/ Resolution:
Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

Project Manager Review: Jenni Gross Date: 6/4/10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

