SECOR

ConocoPhillips

SECOR INTERNATIONAL INCORPORATED
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TOSCO 6380
Bellingham
LUST 4771259

DATE: October 5, 2007

VCP NW 1487

GROUNDWATER MONITORING REPORT

Facility No.: 256380 Address: 200 South 36th Street, Bellingham, Washington
ConocoPhillips Site Manager: Michael Noll (RM&R 1571)
Consultant / Contact Person: SECOR International Inc. / Alice Larsen
Primary Agency/Regulatory ID No.: Washington State Department of Ecology / Site ID No. 8394
SECOR Project No: 01CP.01571.07

WORK PERFORMED THIS QUARTER(S) [2nd - 2007]:

- On June 1, 2007, SECOR personnel monitored, purged, and sampled eight wells (MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, and MW-8) of the existing network of eight groundwater monitoring wells (MW-1 through MW-8).
- Groundwater samples were collected using a peristaltic pump, with dedicated polyethylene tubing in the well casing and a new section of silicon tubing in the pump head. Complete groundwater monitoring, purging, and sampling procedures are provided in Attachment B.
- Samples were submitted to Lancaster Laboratories for analysis of gasoline-range hydrocarbons (TPH-g) per Northwest Method NWTPH-Gx; diesel range (TPH-d) and heavy oil range (TPH-o) hydrocarbons per Northwest Method NWTPH-Dx modified with an acid/silica gel cleanup; benzene, toluene, ethylbenzene, total xylenes (BTEX) and methyl tert butyl ether (MTBE) per United States Environmental Protection Agency (USEPA) Method 8260B. The laboratory analytical report is presented in Attachment A.

WORK PROPOSED FOR NEXT QUARTER [3rd - 2007]:

- Measure depth to water, purge, and sample eight groundwater monitoring wells (MW-1 through MW-8). Submit groundwater samples for analysis for NWTPH-Gx, NWTPH-Dx, BTEX, and MTBE.

DATA SUMMARY THIS QUARTER:

Frequency of Sampling Events:	Quarterly	(03/07,06/07,09/07,12/07)
Depth to Groundwater:	4.10 ft. (MW-5)	(Measured Feet Below
	8.38 ft. (MW-2)	Top of Well Casing/Well ID)
Groundwater Gradient:	Southwest	(Flow Direction)
	0.04 feet per foot.	(Magnitude)
Maximum TPH-G Concentrations:	210 µg/L (MW-7)	(ppb / well ID)
Maximum TPH-D Concentrations:	Not Analyzed	(ppb / well ID)
Maximum TPH-O Concentrations:	Not Analyzed	(ppb / well ID)
Maximum Benzene Concentration:	None Detected	(ppb / well ID)
Maximum Dissolved Lead Concentration:	Not Analyzed	(ppb / well ID)
Measurable Free Product Detected:	No	(Yes - ID well(s)/No)
Free Product Recovered This Quarter:	None	(Gallons)
Cumulative Free Product Recovered to Date:	None	(Gallons)
Water Wells or	One Water Well	(Type)
Surface Waters w/in 2,000 ft:	Connelly Creek	
Radius and Respective	1600 ft. West	(Respective Distance
Direction From Site:	1000 ft. Southwest	& Direction)

Current Remedial Action: NA (SVE/AS/P&T/NA etc.)
Permits for Discharge: None (NPDES, POTW, etc.)

DISCUSSION:

- The groundwater samples were received by Lancaster Laboratories on June 1, 2007. Based on a review of the laboratory reports, it appears that the submitted water samples were analyzed within the specified holding times and that Lancaster followed their appropriate quality assurance/quality control (QA/QC) procedures during analysis.

- TPH-g was detected at concentrations greater than the laboratory reporting limits (RLs), but less than Model Toxics Control Act (MTCA) Method A Cleanup Level, in the groundwater sample collected from well MW-7 (210 micrograms per liter [µg/L]). TPH-g was not detected at concentrations greater than the RLs in any of the remaining samples collected this quarter.

- TPH-d and TPH-o were not analyzed this quarter. The lab unintentionally disposed of the sample bottles prior to analyzing.

- BTEX constituents were not detected at concentrations greater than the RLs in the groundwater samples collected this quarter.

- MTBE was detected at concentrations greater than the RLs, but less than MTCA Method A Cleanup Level, in the groundwater samples collected from wells MW-1, MW-5, and MW-7 (1 µg/L, 0.6 µg/L, and 0.8 µg/L, respectively). MTBE was not detected at concentrations greater than the RLs in the remaining groundwater samples collected this quarter.

- No drums were left on site.

ATTACHMENTS:

Figure 1: Site Location Map
Figure 2: Site Plan with Groundwater Elevations (06/01/07)
Figure 3: Site Plan with Groundwater Analytical Results (06/01/07)

Table 1: Summary of Groundwater Elevations and Sample Analytical Results

Attachment A: Laboratory Analytical Report and Chain-of-Custody Record
Attachment B: SECOR Monitoring Well Gauging, Purging and Sampling Procedures; Groundwater Monitoring Field Data Records

Prepared By:

Tammy Parise

Tammy Parise
Staff Geologist

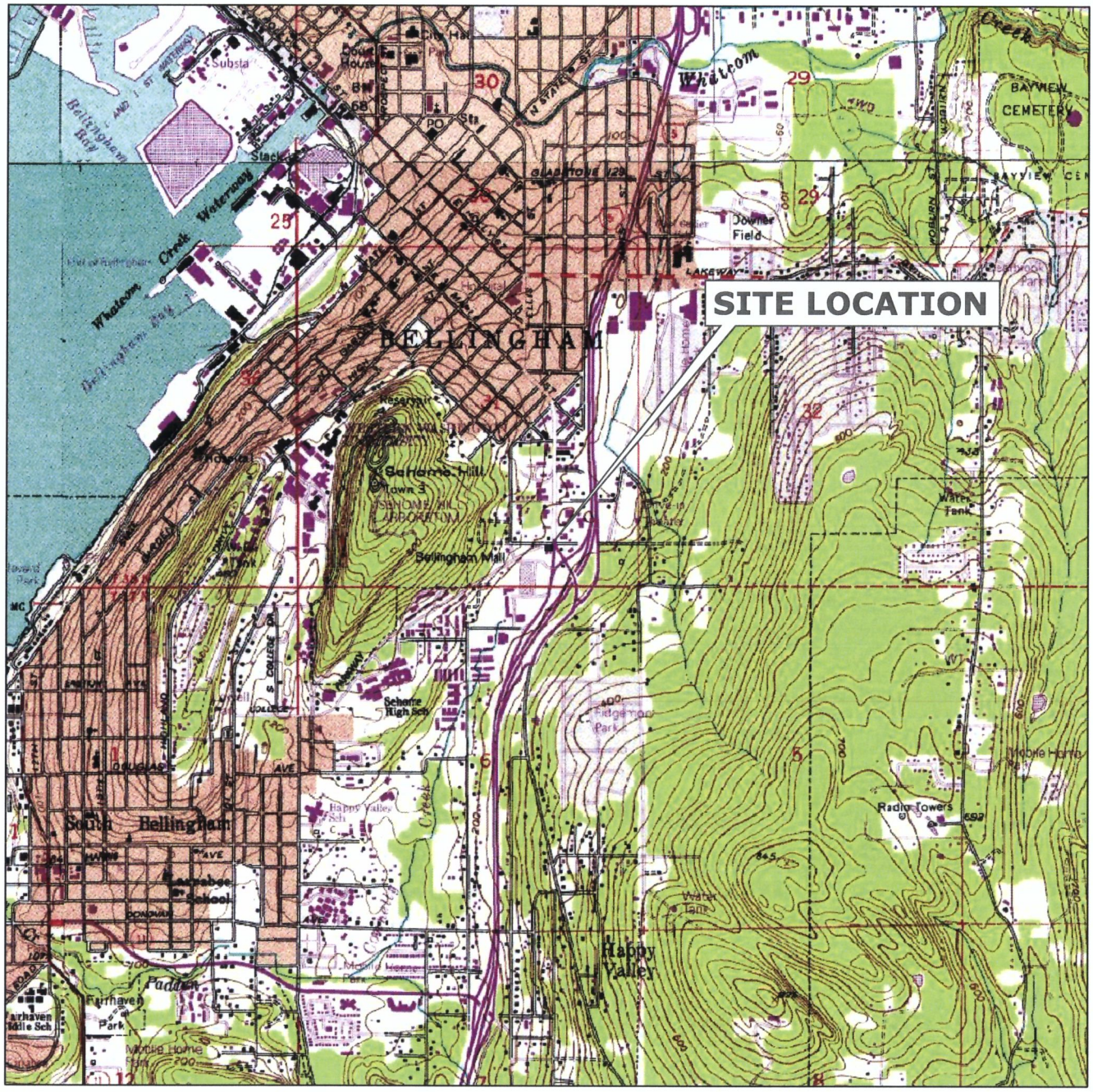
Reviewed By:

Mark Trewartha, R.G.
Senior Project Hydrogeologist

TP/MT:dc

cc: LUST Coordinator, Washington State Department of Ecology – Bellevue, WA
Mr. Victor Boulos, Keith Oil Company

FIGURES



North

WASHINGTON

1 1/2 0 1

SCALE (MILES)

1000 0 1000 2000 3000 4000 5000 6000 7000

SCALE (FEET)

REFERENCE: USGS 7.5 MINUTE QUADRANGLE; BELLINGHAM SOUTH, WASHINGTON; 1972

SECOR
12034 134th COURT, SUITE 102
REDMOND, WASHINGTON
PHONE: (425) 372-1600 FAX: (425) 372-1650

PREPARED FOR:
ConocoPhillips
FACILITY NO 256380
200 SOUTH 36th STREET
BELLINGHAM, WASHINGTON

SITE LOCATION MAP

FIGURE: **1**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
01CP.01571.07	S. SIMMONS	TD		1/31/06

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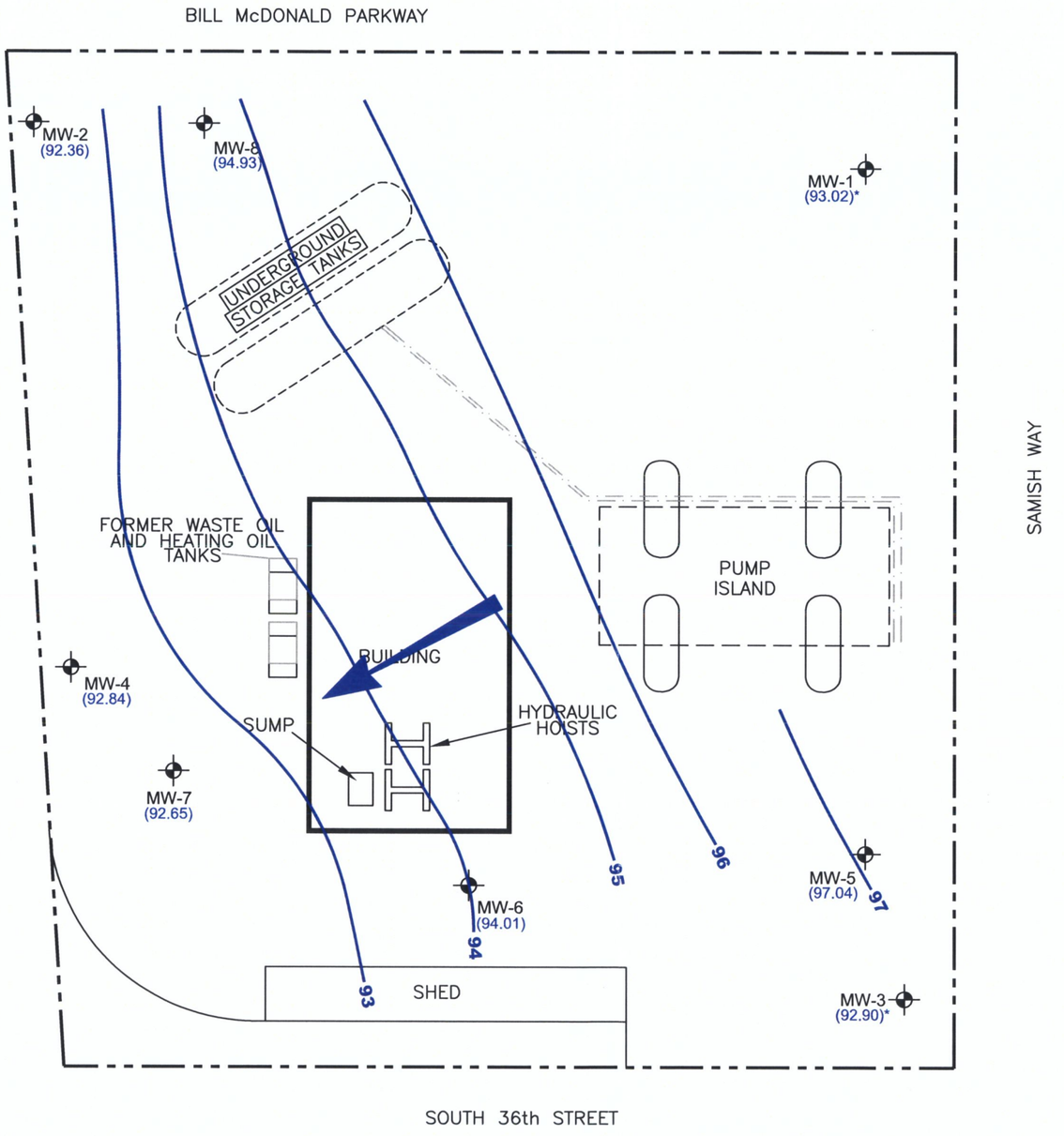

LEGEND

MONITORING WELL LOCATION

SITE BOUNDARY

GROUNDWATER

(70.60) GROUNDWATER ELEVATION (FEET)

INFERRED GROUNDWATER FLOW DIRECTION

94 GROUNDWATER ELEVATION CONTOUR (FEET)

* WELLS MW-1 AND MW-3 NOT USED IN CONTOURING DUE TO AN ANOMALY

NOTES:

1). ALL LOCATIONS ARE APPROXIMATE.

North

0 20 40

APPROXIMATE SCALE (FEET)

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

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REDMOND, WASHINGTON
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FOR: ConocoPhillips
FACILITY NO. 256380 (RM & R 1571)
200 SOUTH 36th STREET
BELLINGHAM, WASHINGTON

SITE PLAN WITH GROUNDWATER ELEVATIONS (6/1/07)

FIGURE: **2**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
01CP.01571.07	JCR	TP		7/26/07

MW-8	9/21/2006	12/13/06	3/7/07	6/1/07
TPHg	<48	<48	<48	<50
TPHd	<76	<76	<75	--
TPHo	<95	<95	<94	--
B	<0.5	<0.5	<0.5	<0.5
T	<0.7	<0.7	<0.7	<0.7
E	<0.8	<0.8	<0.8	<0.8
X	<0.8	<0.8	<0.8	<0.8
MTBE	<0.5	<0.5	<0.5	<0.5
Pb	<6.9	--	--	--

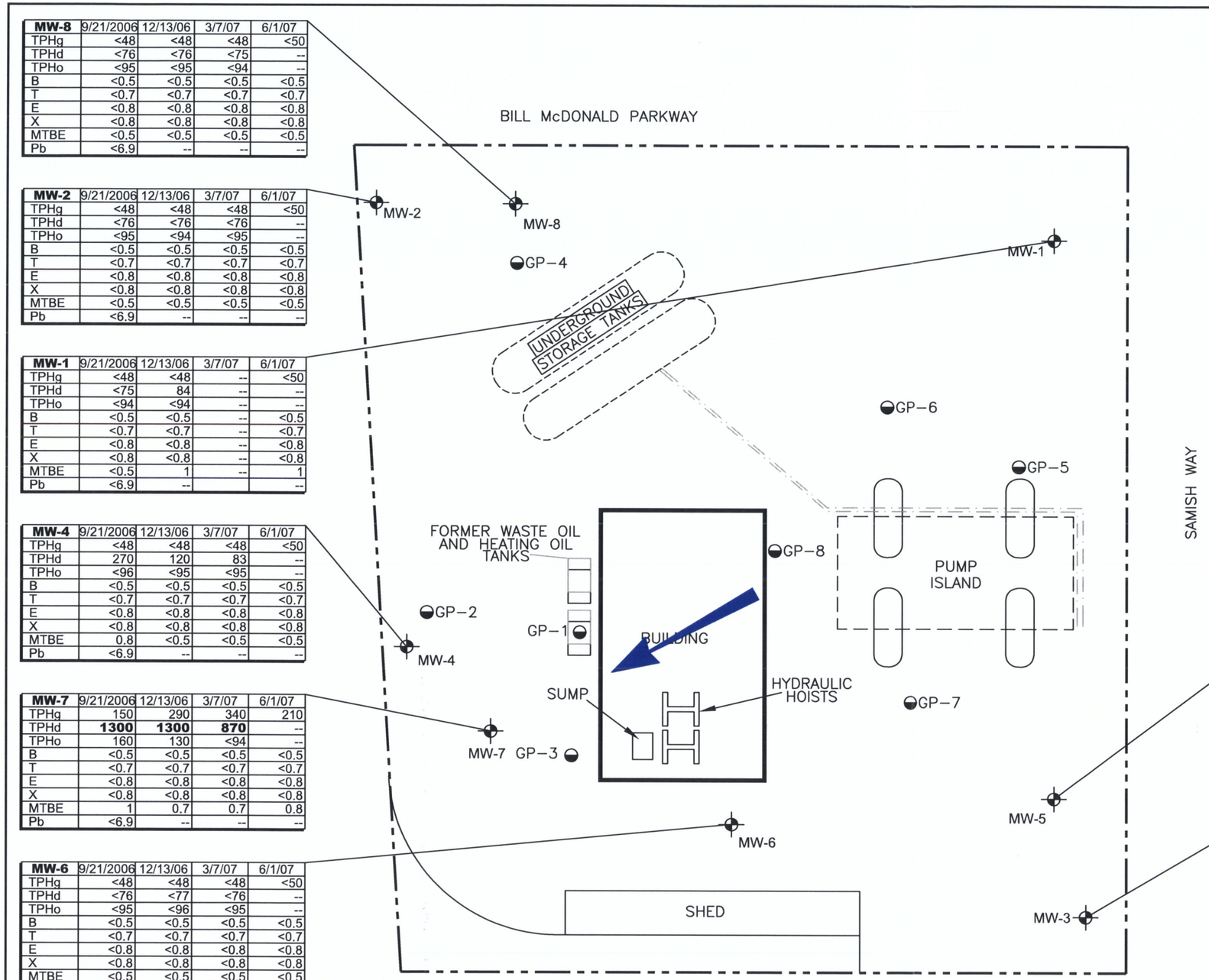
MW-2	9/21/2006	12/13/06	3/7/07	6/1/07
TPHg	<48	<48	<48	<50
TPHd	<76	<76	<76	--
TPHo	<95	<94	<95	--
B	<0.5	<0.5	<0.5	<0.5
T	<0.7	<0.7	<0.7	<0.7
E	<0.8	<0.8	<0.8	<0.8
X	<0.8	<0.8	<0.8	<0.8
MTBE	<0.5	<0.5	<0.5	<0.5
Pb	<6.9	--	--	--

MW-1	9/21/2006	12/13/06	3/7/07	6/1/07
TPHg	<48	<48	--	<50
TPHd	<75	84	--	--
TPHo	<94	<94	--	--
B	<0.5	<0.5	--	<0.5
T	<0.7	<0.7	--	<0.7
E	<0.8	<0.8	--	<0.8
X	<0.8	<0.8	--	<0.8
MTBE	<0.5	1	--	1
Pb	<6.9	--		--

MW-4	9/21/2006	12/13/06	3/7/07	6/1/07
TPHg	<48	<48	<48	<50
TPHd	270	120	83	--
TPHo	<96	<95	<95	--
B	<0.5	<0.5	<0.5	<0.5
T	<0.7	<0.7	<0.7	<0.7
E	<0.8	<0.8	<0.8	<0.8
X	<0.8	<0.8	<0.8	<0.8
MTBE	0.8	<0.5	<0.5	<0.5
Pb	<6.9	--	--	--

MW-7	9/21/2006	12/13/06	3/7/07	6/1/07
TPHg	150	290	340	210
TPHd	**1300**	**1300**	**870**	--
TPHo	160	130	<94	--
B	<0.5	<0.5	<0.5	<0.5
T	<0.7	<0.7	<0.7	<0.7
E	<0.8	<0.8	<0.8	<0.8
X	<0.8	<0.8	<0.8	<0.8
MTBE	1	0.7	0.7	0.8
Pb	<6.9	--	--	--

MW-6	9/21/2006	12/13/06	3/7/07	6/1/07
TPHg	<48	<48	<48	<50
TPHd	<76	<77	<76	--
TPHo	<95	<96	<95	--
B	<0.5	<0.5	<0.5	<0.5
T	<0.7	<0.7	<0.7	<0.7
E	<0.8	<0.8	<0.8	<0.8
X	<0.8	<0.8	<0.8	<0.8
MTBE	<0.5	<0.5	<0.5	<0.5
Pb	<6.9	--	--	--



MW-5	9/21/2006	12/13/06	3/7/07	6/1/07
TPHg	<48	<48	<48	<50
TPHd	<76	83	<76	--
TPHo	<95	<95	<94	--
B	<0.5	<0.5	<0.5	<0.5
T	<0.7	<0.7	<0.7	<0.7
E	<0.8	<0.8	<0.8	<0.8
X	<0.8	<0.8	<0.8	<0.8
MTBE	<0.5	<0.5	<0.5	0.6
Pb	<6.9	--	--	--

MW-3	9/21/2006	12/13/06	3/7/07	6/1/07
TPHg	<48	<48	<48	<50
TPHd	<75	<76	<76	--
TPHo	<94	<95	<95	--
B	<0.5	<0.5	<0.5	<0.5
T	<0.7	<0.7	<0.7	<0.7
E	<0.8	<0.8	<0.8	<0.8
X	<0.8	<0.8	<0.8	<0.8
MTBE	<0.5	<0.5	<0.5	<0.5
Pb	<6.9	--	--	--

LEGEND

MONITORING WELL LOCATION

SITE BOUNDARY

INFERRED GROUNDWATER FLOW DIRECTION

ANALYTES

WELL ID	
TPHg	GASOLINE RANGE HYDROCARBONS
TPHd	DIESEL RANGE HYDROCARBONS
TPHo	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 REPORING LIMITS

ND NOT DETECTED AT OR ABOVE THE LABORATORY METHOD DETECTION LIMIT

-- NOT ANALYZED OR NOT APPLICABLE

NOTES:

1). ALL LOCATIONS ARE APPROXIMATE

North

0 20 40

APPROXIMATE SCALE (FEET)

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

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FOR: ConocoPhillips
FACILITY NO. 256380 (RM & R 1571)
200 SOUTH 36th STREET
BELLINGHAM, WASHINGTON

SITE PLAN WITH ANALYTICAL RESULTS (6/1/07)

FIGURE: 3

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
01CP.01571.07	JCR			7/26/07

TABLE

TABLE 1
GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
ConocoPhillips Facility No. 256380 (RM&R 1571)
200 South 36th Street
Bellingham, Washington

				Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Lead
Well Name	Sample Date	Depth to Water	GW Elevation	Gasoline Range	Diesel Range	Heavy Range	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Total Pb
MW-1	09/21/06	6.13	92.36	<48	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9
98.49	12/13/06	5.75	92.74	<48	84	<94	<0.5	<0.7	<0.8	<0.8	1	--
	03/07/07	Unable to sample; Public Works truck parked over well.					--	--	--	--	--	--
	06/01/07	5.47	93.02	<50	--	--	<0.5	<0.7	<0.8	<0.8	1	--
MW-2	09/21/06	9.00	91.74	<48	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9
100.74	12/13/06	7.80	92.94	<48	<76	<94	<0.5	<0.7	<0.8	<0.8	<0.5	--
	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	--
MW-3	09/21/06	5.51	92.33	<48	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9
97.84	12/13/06	4.75	93.09	<48	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--
	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	--
MW-4	09/21/06	7.20	92.24	<48	270	<96	<0.5	<0.7	<0.8	<0.8	0.8	<6.9
99.44	12/13/06	5.86	93.58	<48	120	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--
	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	--
MW-5	09/21/06	4.85	96.29	<48	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9
101.14	12/13/06	4.98	96.16	<48	83	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--
	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	--
MW-6	09/21/06	6.39	93.35	<48	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9
99.74	12/13/06	4.98	94.76	<48	<77	<96	<0.5	<0.7	<0.8	<0.8	<0.5	--
	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	--

TABLE 1

GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS

ConocoPhillips Facility No. 256380 (RM&R 1571)

200 South 36th Street

Bellingham, Washington

				Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Lead
Well Name	Sample Date	Depth to Water	GW Elevation	Gasoline Range	Diesel Range	Heavy Range	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Total Pb
MW-7	09/21/06	7.56	92.08	150	**1,300**	160	<0.5	<0.7	<0.8	<0.8	1	<6.9
99.64	12/13/06	6.05	93.59	290	**1,300**	130	<0.5	<0.7	<0.8	<0.8	0.7	--
	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	--
MW-8	09/21/06	8.42	94.28	<48	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9
102.7	12/13/06	7.10	95.60	<48	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--
	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	--
MTCA Method A Cleanup Levels:				**1000/800[a]**	**500**	**500**	**5**	**1000**	**700**	**1000**	**20**	**15**

NOTES:

All concentrations are in µg/L (ppb).

Depth to water in feet below top of casing.

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

TPH-g = Gasoline range hydrocarbons by Ecology Method NWTPH-Gx.

TPH-d and TPH-o = Diesel and heavy oil range hydrocarbons, respectively, by Ecology Method NWTPH-Dx.

BTEX = Benzene, Toluene, Ethylbenzene, and Total Xylenes by EPA Method 5030/8260B.

Total lead by ICP-US EPA Method 6010.

-- = Not Analyzed or Sampled.

< = Less than the stated laboratory reporting limit.

Bolded values equal or exceed MTCA Method A Cleanup Levels.

[a] MTCA Method A cleanup levels for TPH-g are 1000 µg/L when no benzene is present and 800 µg/L when benzene is present.

ATTACHMENT A
LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY RECORD

Lancaster Laboratories

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

Analysis Report

ANALYTICAL RESULTS

Prepared for:

ConocoPhillips
5528 NW Doane Ave.
Portland OR 97210

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 1040838. Samples arrived at the laboratory on Saturday, June 02, 2007. The PO# for this group is 4506583796 and the release number is NOLL.

Client Description	Lancaster Labs Number
MW-8 Grab Water Sample	5069736
MW-2 Grab Water Sample	5069737
MW-4 Grab Water Sample	5069738
MW-7 Grab Water Sample	5069739
MW-6 Grab Water Sample	5069740
MW-3 Grab Water Sample	5069741
MW-5 Grab Water Sample	5069742
MW-1 Grab Water Sample	5069743
Trip Blank Water Sample	5069744

ELECTRONIC COPY TO	SECOR International	Attn: Meredith Redmon
ELECTRONIC COPY TO	SECOR International	Attn: Tammy Parise
ELECTRONIC COPY TO	SECOR International	Attn: Alice Larsen

Lancaster Laboratories

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

Analysis Report

Questions? Contact your Client Services Representative
Barbara A Weyandt at (717) 656-2300

Respectfully Submitted,

Susan M. Goshert
Group Leader

Lancaster Laboratories

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

Analysis Report

Lancaster Laboratories Sample No. WW 5069743

MW-1 Grab Water Sample
Site# 1571 (256380)
200 S 36th St-Bellingham, WA
Collected: 06/01/2007 14:03 by TP

Account Number: 11817

Submitted: 06/02/2007 09:50
Reported: 06/13/2007 at 14:36
Discard: 07/14/2007

ConocoPhillips
5528 NW Doane Ave.
Portland OR 97210

36B01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
02300	GC/MS Volatiles					
02010	Methyl Tertiary Butyl Ether	1634-04-4	1.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

State of Washington Lab Certification No. C259

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	06/05/2007 12:12	Linda C Pape	1
02300	GC/MS Volatiles	SW-846 8260B	1	06/12/2007 22:15	Ryan V Nolt	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/12/2007 22:15	Ryan V Nolt	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/05/2007 12:12	Linda C Pape	1

Lancaster Laboratories

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

Analysis Report

Lancaster Laboratories Sample No. WW 5069737

MW-2 Grab Water Sample
Site# 1571 (256380)
200 S 36th St-Bellingham, WA
Collected:06/01/2007 10:51 by TP

Account Number: 11817

Submitted: 06/02/2007 09:50
Reported: 06/13/2007 at 14:36
Discard: 07/14/2007

ConocoPhillips
5528 NW Doane Ave.
Portland OR 97210

36B02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
02300	GC/MS Volatiles					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

State of Washington Lab Certification No. C259

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	06/05/2007 10:07	Linda C Pape	1
02300	GC/MS Volatiles	SW-846 8260B	1	06/12/2007 19:54	Ryan V Nolt	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/12/2007 19:54	Ryan V Nolt	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/05/2007 10:07	Linda C Pape	1

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Analysis Report

Lancaster Laboratories Sample No. WW 5069741

MW-3 Grab Water Sample
Site# 1571 (256380)
200 S 36th St-Bellingham, WA
Collected:06/01/2007 13:01 by TP

Account Number: 11817

Submitted: 06/02/2007 09:50
Reported: 06/13/2007 at 14:36
Discard: 07/14/2007

ConocoPhillips
5528 NW Doane Ave.
Portland OR 97210

36B03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
02300	GC/MS Volatiles					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

State of Washington Lab Certification No. C259

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	06/05/2007 11:30	Linda C Pape	1
02300	GC/MS Volatiles	SW-846 8260B	1	06/12/2007 21:28	Ryan V Nolt	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/05/2007 11:30	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/12/2007 21:28	Ryan V Nolt	1

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Analysis Report

Lancaster Laboratories Sample No. WW 5069738

MW-4 Grab Water Sample
Site# 1571 (256380)
200 S 36th St-Bellingham, WA
Collected:06/01/2007 11:26 by TP

Account Number: 11817

Submitted: 06/02/2007 09:50
Reported: 06/13/2007 at 14:36
Discard: 07/14/2007

ConocoPhillips
5528 NW Doane Ave.
Portland OR 97210

36B04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
02300	GC/MS Volatiles					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

State of Washington Lab Certification No. C259

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	06/05/2007 10:27	Linda C Pape	1
02300	GC/MS Volatiles	SW-846 8260B	1	06/12/2007 20:17	Ryan V Nolt	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/12/2007 20:17	Ryan V Nolt	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/05/2007 10:27	Linda C Pape	1

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Analysis Report

Lancaster Laboratories Sample No. WW 5069742

MW-5 Grab Water Sample
Site# 1571 (256380)
200 S 36th St-Bellingham, WA
Collected:06/01/2007 13:32 by TP

Account Number: 11817

Submitted: 06/02/2007 09:50
Reported: 06/13/2007 at 14:36
Discard: 07/14/2007

ConocoPhillips
5528 NW Doane Ave.
Portland OR 97210

36B05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
02300	GC/MS Volatiles					
02010	Methyl Tertiary Butyl Ether	1634-04-4	0.6	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

State of Washington Lab Certification No. C259

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	06/05/2007 11:51	Linda C Pape	1
02300	GC/MS Volatiles	SW-846 8260B	1	06/12/2007 21:51	Ryan V Nolt	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/12/2007 21:51	Ryan V Nolt	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/05/2007 11:51	Linda C Pape	1

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Analysis Report

Lancaster Laboratories Sample No. WW 5069740

MW-6 Grab Water Sample
Site# 1571 (256380)
200 S 36th St-Bellingham, WA
Collected:06/01/2007 12:27 by TP

Account Number: 11817

Submitted: 06/02/2007 09:50
Reported: 06/13/2007 at 14:36
Discard: 07/14/2007

ConocoPhillips
5528 NW Doane Ave.
Portland OR 97210

36B06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
02300	GC/MS Volatiles					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

State of Washington Lab Certification No. C259

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	06/05/2007 11:09	Linda C Pape	1
02300	GC/MS Volatiles	SW-846 8260B	1	06/12/2007 21:04	Ryan V Nolt	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/12/2007 21:04	Ryan V Nolt	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/05/2007 11:09	Linda C Pape	1

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Analysis Report

Lancaster Laboratories Sample No. WW 5069739

MW-7 Grab Water Sample
Site# 1571 (256380)
200 S 36th St-Bellingham, WA
Collected:06/01/2007 11:56 by TP

Account Number: 11817

Submitted: 06/02/2007 09:50
Reported: 06/13/2007 at 14:36
Discard: 07/14/2007

ConocoPhillips
5528 NW Doane Ave.
Portland OR 97210

36B07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	210.	50.	ug/l	1
02300	GC/MS Volatiles					
02010	Methyl Tertiary Butyl Ether	1634-04-4	0.8	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

State of Washington Lab Certification No. C259

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	06/05/2007 10:48	Linda C Pape	1
02300	GC/MS Volatiles	SW-846 8260B	1	06/12/2007 20:41	Ryan V Nolt	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/05/2007 10:48	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/12/2007 20:41	Ryan V Nolt	1

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Analysis Report

Lancaster Laboratories Sample No. WW 5069736

MW-8 Grab Water Sample
Site# 1571 (256380)
200 S 36th St-Bellingham, WA
Collected:06/01/2007 10:22 by TP

Account Number: 11817

Submitted: 06/02/2007 09:50
Reported: 06/13/2007 at 14:36
Discard: 07/14/2007

ConocoPhillips
5528 NW Doane Ave.
Portland OR 97210

36B08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
02300	GC/MS Volatiles					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

State of Washington Lab Certification No. C259

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	06/05/2007 09:46	Linda C Pape	1
02300	GC/MS Volatiles	SW-846 8260B	1	06/12/2007 19:31	Ryan V Nolt	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/05/2007 09:46	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/12/2007 19:31	Ryan V Nolt	1

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Analysis Report

Lancaster Laboratories Sample No. WW 5069744

Trip Blank Water Sample
Site# 1571 (256380)
200 S 36th St-Bellingham, WA
Collected:06/01/2007

Account Number: 11817

Submitted: 06/02/2007 09:50
Reported: 06/13/2007 at 14:36
Discard: 07/14/2007

ConocoPhillips
5528 NW Doane Ave.
Portland OR 97210

36BTB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
02300	GC/MS Volatiles					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

State of Washington Lab Certification No. C259

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	06/05/2007 05:13	Linda C Pape	1
02300	GC/MS Volatiles	SW-846 8260B	1	06/12/2007 22:38	Ryan V Nolt	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/12/2007 22:38	Ryan V Nolt	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/05/2007 05:13	Linda C Pape	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: ConocoPhillips
Reported: 06/13/07 at 02:36 PM

Group Number: 1040838

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 07156A54A	Sample number(s): 5069736-5069744							
TPH by NWTPH-Gx waters	N.D.	50.	ug/l	92	92	75-135	0	30
Batch number: T071631AA	Sample number(s): 5069736-5069744							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	95	94	73-119	1	30
Benzene	N.D.	0.5	ug/l	102	97	78-119	5	30
Toluene	N.D.	0.7	ug/l	110	108	85-115	2	30
Ethylbenzene	N.D.	0.8	ug/l	108	106	82-119	2	30
Xylene (Total)	N.D.	0.8	ug/l	109	107	83-113	2	30

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 07156A54A	Sample number(s): 5069736-5069744 UNSPK: P069758								
TPH by NWTPH-Gx waters	95		63-154						
Batch number: T071631AA	Sample number(s): 5069736-5069744 UNSPK: P068906								
Methyl Tertiary Butyl Ether	96		69-127						
Benzene	105		83-128						
Toluene	119		83-127						
Ethylbenzene	115		82-129						
Xylene (Total)	118		82-130						

Surrogate Quality Control

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

Analysis Name: TPH by NWTPH-Gx waters
Batch number: 07156A54A

	Trifluorotoluene-F
5069736	91
5069737	97
5069738	92
5069739	89
5069740	96
5069741	96

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

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: ConocoPhillips
Group Number: 1040838
Reported: 06/13/07 at 02:36 PM

Surrogate Quality Control

5069742	89
5069743	96
5069744	97
Blank	95
LCS	86
LCSD	87
MS	84
Limits:	63-135

Analysis Name: UST-Unleaded Waters by 8260B
Batch number: T071631AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5069736	86	86	98	95
5069737	86	87	101	95
5069738	88	86	99	95
5069739	86	85	101	97
5069740	86	86	97	93
5069741	87	87	99	95
5069742	86	85	101	95
5069743	86	87	99	96
5069744	87	87	99	95
Blank	86	87	98	93
LCS	85	88	99	92
LCSD	86	91	101	96
MS	87	92	101	97
Limits:	80-116	77-113	80-113	78-113

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

ConocoPhillips Analysis Request/Chain of Custody

Lancaster Laboratories

For Lancaster Labs Use ONLY Acct. #: 11817 Group # 1040538 Sample#: 5069736444 SCR#:

006605

Site #: 256380 AOC#:

Site City: Bellingham State: WA

Enfos PO# 4506583796

ConocoPhillips PM: Mike Noll

Samplers Name: Tammy Parise

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Water	Oil	Potable	NPDES	Air	#	BTEX 8260B	MTBE 8260B	Multi PHd w/ silica gel cleanup	Remarks
MW-8	6/1/07	10:22	X			X					X	X	X	X	
MW-2		10:51													
MW-4		11:26													
MW-7		11:56													
MW-6		12:27													
MW-3		1:01													
MW-5		1:32													
MW-1		2:03													
Tripblanks															

Analyses Requested — List total number of containers in the box under each analysis.

Preservation Codes

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

Consultant Information:

Office City: Redmond State: WA

Project Manager: M. redmon

Phone Number: 425 372-1600 Fax: 372-1650

Email: mredmond@ecorisk.com

Electronic Data Deliverables (Circle One) Yes / No Format

Reporting Requirements (Circle One)

Standard Reports/QC Summary Full Validation (LLI Type I)

NJ Regulatory NJ Reduced NY ASP-A NY ASP-B Other

Turnaround Time Requested in Business Days (TAT) (Circle One):

STD. 5 day 48 hour 24 hour Other

Relinquished by:	Date	Time	Received by:	Date	Time
Tammy Parise	6/1/07	3pm			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
			Lisa Cooke	6/2/07	0950

Relinquished by Commercial Carrier:

UPS FedEx X Other

Temperature Upon Receipt 3.7-5 C°

ConocoPhillips Analysis Request/Chain of Custody

Lancaster Laboratories

For Lancaster Labs Use ONLY Acct. #: 11817 Group # 1040838 Sample#: 5069736-44 SCR#:

006604

Site #: 256380 AOC#:

Site City: Bellingham State: WA

Enfos PO#: 4506583796

ConocoPhillips PM: Mike Noll

Samplers Name: TP

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water	Matrix: Potable / NPDES / Oil / Air	Analyses Requested: NWTPH-g #	BTEX 8260B #	MTBE 8260B #	NWTPH-d w/ silica gel cleanup #	Remarks
MW-8	6/1/07	10:22	X			X		4	4	4	4	
MW-2		10:51										
MW-4		11:26										
MW-7		11:56										
MW-6		12:27										
MW-3		1:01										
MW-5		1:32										
MW-1		2:03										
Trip blanks												

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

List total number of containers in the box under each analysis.

Consultant Information:

Office City: Redmond State: WA

Project Manager: Meredith Redmon

Phone Number: 425 372-1600 Fax: 372-1650

Email: mredmond@secor.com

Electronic Data Deliverables (Circle One) Yes / No Format_____

Reporting Requirements (Circle One)

Standard Reports/QC Summary Full Validation (LLI Type I)

NJ Regulatory NJ Reduced NY ASP-A NY ASP-B Other_____

Turnaround Time Requested in Business Days (TAT) (Circle One):

STD. 5 day 48 hour 24 hour Other_____

Relinquished by:	Date	Time	Received by:	Date	Time
Tammy Pané	6/1/07	3pm			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: Lisa Cook	Date 6/2/07	Time 0950

Relinquished by Commercial Carrier: UPS_____ FedEx X Other_____

Temperature Upon Receipt 3.1-5 C°

Lancaster Laboratories
Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	**BMQL**	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
Cal	(diet) calories	**lb.**	pound(s)
meq	milliequivalents	**kg**	kilogram(s)
g	gram(s)	**mg**	milligram(s)
ug	microgram(s)	**l**	liter(s)
ml	milliliter(s)	**ul**	microliter(s)
m3	cubic meter(s)	**fib >5 um/ml**	fibers greater than 5 microns in length per ml

< less than – The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

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

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike amount not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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

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ATTACHMENT B
SECOR MONITORING WELL GAUGING, PURGING AND SAMPLING PROCEDURES; GROUNDWATER MONITORING FIELD DATA RECORDS

SECOR 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.

SECOR

DAILY FIELD LOG

Page: 1 of 1
Date: 6/1/2007

Client: ConocoPhillips	Site No: 256380	Project No: 01CP.01571.02

Scope of Work: x Quarter Monitoring/Sampling

Describe Daily Activities:

Gauged 8 monitoring wells.
Purged 8 monitoring wells.
Sampled 8 monitoring wells.

Number of drums left on site: 0

Field Notes:

9:00 Check in w/ Meredith + Stanton employee
Apply PPE, go over HASP, pack samples on ice prior to sampling due to heat
Set up decon + begin gauging
Low-flow problem - unable to read DO.
10:22 sampled MW-8
10:51 Sampled MW-2
11:26 Sampled MW-4
11:56 Sampled MW-7
12:27 sampled MW-6
1:01 Sampled MW-3
1:32 sampled MW-5
2:03 sampled MW-1
Decon equipment + pack up
Empty purge water into drum, seame load
Purchase more ice + pack for shipping
Check in w/ Meredith + Stanton employee

Arrived on Site: 9:00

Departed Site: 2:50

Decontamination Procedures: 3-Stage (Alconox Wash, Tap Water Rinse, & Distilled Water Rinse)

Daily Health and Safety Log Completed?: Yes

Utility Locations Checked?: N/A

Important Conversations: No

Important Changes in Scope of Work: No

Weather Conditions: 70°F Sunny

Subcontractors On Site: No

SECOR Personnel On Site: TP

Signed: Tammy Pauls

Date: 6/1/07

SECOR
GROUNDWATER SAMPLING FIELD DATA SHEET

SECOR PN: ENFOS PO# 4506583796 DATE: 6/1/07 WELL NO. MW-1

FACILITY NAME: 256380 TEMPERATURE: 80 °F or °C

FIELD PERSONNEL: Tammy Parise WEATHER: Sunny

FIELD MEASUREMENTS:

A. Static Water Level (SWL) below top of casing/piezometer: 5.47 FT. or IN.

B. Thickness of Free Product, if present: _____ Inches _____ FT. or IN.

C. Total Depth of well (TD) from top of casing/piezometer: _____ FT. or IN.

D. Height of Water Column in casing (h = TD - SWL): _____ FT. or IN.

E. **Useful approximate Purge Volumes (PV) per foot of water column for common casing sizes:**

	3 Well Vols.	5 Well Vols.		
2" Diameter =	0.5 gals/ft	0.82 gals/ft	x feet of water_____ =	_____PV (Gal)
4" Diameter =	2.0 gals/ft	3.25 gals/ft	x feet of water_____ =	_____PV (Gal)
6" Diameter =	4.4 gals/ft	7.35 gals/ft	x feet of water_____ =	_____PV (Gal)

PURGING METHOD: LOW FLOW DURATION: START: 1:51 END: 2:17

OBSERVATIONS:	Time	Color	Turbidity	ORP	pH	DO	Temp.	Conduct.	SWL
1ST Volume:	1:56	C	860	-95	7.10		20.27	0.710	5.70
2nd Volume:	1:59	C	-5	-86	7.14		20.31	0.709	5.67
3rd Volume:	2:02	C	-5	-71	7.11		20.55	0.704	5.67
4th Volume:									
Addl. Volumes:									

TOTAL VOLUME OF WATER PURGED FROM WELL: .25 gallons

PURGE WATER STORED/DISPOSED OF WHERE/HOW: Taken offsite

SAMPLES COLLECTED: Depth to Water at time of sample collection: 5.67

Sample Number(s)	Time	Size/Number of Container(s)	Preservative
MW-1	2:03	6 voas	HCl
		1 amber	HCL

COMMENTS:

Casing Capacities:
2-inch hole.....0.16 gal/lin ft.
4-inch hole.....0.65 gal/lin ft.
6.5-inch hole.....1.70 gal/lin ft.
8-inch hole.....2.60 gal/lin ft.
10-inch hole.....4.10 gal/lin ft.

Recharge Calculation at Time of Sample Collection:

Total Depth of Well:
Original Water Column: _____ x 0.80 = --(_____)
Collect sample when Depth to Water measures
Less than or equal to:

SECOR
GROUNDWATER SAMPLING FIELD DATA SHEET

SECOR PN: ENFOS PO# 4506583796 DATE: 6/1/07 WELL NO. MW-2

FACILITY NAME: 256380 TEMPERATURE: 70 °F or °C

FIELD PERSONNEL: Tammy Parise WEATHER: Sunny

FIELD MEASUREMENTS:

A. Static Water Level (SWL) below top of casing/piezometer: 8.38 ~~8.38~~ FT. or IN.

B. Thickness of Free Product, if present: _____ Inches _____ FT. or IN.

C. Total Depth of well (TD) from top of casing/piezometer: _____ FT. or IN.

D. Height of Water Column in casing (h = TD - SWL): _____ FT. or IN.

E. **Useful approximate Purge Volumes (PV) per foot of water column for common casing sizes:**

	3 Well Vols.	5 Well Vols.		
2" Diameter =	0.5 gals/ft	0.82 gals/ft	x feet of water_____ =	_____PV (Gal)
4" Diameter =	2.0 gals/ft	3.25 gals/ft	x feet of water_____ =	_____PV (Gal)
6" Diameter =	4.4 gals/ft	7.35 gals/ft	x feet of water_____ =	_____PV (Gal)

PURGING METHOD: LOW FLOW DURATION: START: 10:39 END: 11:05

OBSERVATIONS:	Time	Color	Turbidity	ORP	pH	DO	Temp.	Conduct.	SWL
1ST Volume:	10:44	C	840	90	7.17	0.00	17.60	0.546	8.45
2nd Volume:	10:47	C	820	93	7.10	1	17.56	0.551	8.46
3rd Volume:	10:50	C	670	95	7.08	1	17.69	0.548	8.47
4th Volume:									
Addl. Volumes:									

TOTAL VOLUME OF WATER PURGED FROM WELL: .25 gallons

PURGE WATER STORED/DISPOSED OF WHERE/HOW: Taken offsite

SAMPLES COLLECTED: Depth to Water at time of sample collection: 8.47

Sample Number(s)	Time	Size/Number of Container(s)	Preservative
MW-2	10:51	6 voas	HCl
		1 amber	HCL

COMMENTS:

Casing Capacities:
2-inch hole.....0.16 gal/lin ft.
4-inch hole.....0.65 gal/lin ft.
6.5-inch hole.....1.70 gal/lin ft.
8-inch hole.....2.60 gal/lin ft.
10-inch hole.....4.10 gal/lin ft.

Recharge Calculation at Time of Sample Collection:

Total Depth of Well:
Original Water Column: _____ x 0.80 = -- (_____)
Collect sample when Depth to Water measures
Less than or equal to:

SECOR
GROUNDWATER SAMPLING FIELD DATA SHEET

SECOR PN: ENFOS PO# 4506583796 DATE: 6/1/07 WELL NO. MW-3

FACILITY NAME: 256380 TEMPERATURE: 75 °F or °C

FIELD PERSONNEL: Tammy Parise WEATHER: Sunny

FIELD MEASUREMENTS:

A. Static Water Level (SWL) below top of casing/piezometer: 4.94 FT. or IN.

B. Thickness of Free Product, if present: _____ Inches _____ FT. or IN.

C. Total Depth of well (TD) from top of casing/piezometer: _____ FT. or IN.

D. Height of Water Column in casing (h = TD - SWL): _____ FT. or IN.

E. **Useful approximate Purge Volumes (PV) per foot of water column for common casing sizes:**

	3 Well Vols.	5 Well Vols.		
2" Diameter =	0.5 gals/ft	0.82 gals/ft	x feet of water_____ =	_____PV (Gal)
4" Diameter =	2.0 gals/ft	3.25 gals/ft	x feet of water_____ =	_____PV (Gal)
6" Diameter =	4.4 gals/ft	7.35 gals/ft	x feet of water_____ =	_____PV (Gal)

PURGING METHOD: LOW FLOW DURATION: START: 12:49 END: 1:14

OBSERVATIONS:	Time	Color	Turbidity	ORP	pH	DO	Temp.	Conduct.	SWL
1ST Volume:	12:54	C	760	-104	7.32	0.00	17.02	0.780	5.07
2nd Volume:	12:57	C	770	-98	7.29	|	17.23	0.766	5.09
3rd Volume:	1:00	C	720	-91	7.25	|	17.86	0.761	5.10
4th Volume:									
Addl. Volumes:									

TOTAL VOLUME OF WATER PURGED FROM WELL: .25 gallons

PURGE WATER STORED/DISPOSED OF WHERE/HOW: Taken offsite

SAMPLES COLLECTED: Depth to Water at time of sample collection: 5.10

Sample Number(s)	Time	Size/Number of Container(s)	Preservative
MW-3	1:01	6 voas	HCl
		1 amber	HCL

COMMENTS:

Casing Capacities:
2-inch hole.....0.16 gal/lin ft.
4-inch hole.....0.65 gal/lin ft.
6.5-inch hole.....1.70 gal/lin ft.
8-inch hole.....2.60 gal/lin ft.
10-inch hole.....4.10 gal/lin ft.

Recharge Calculation at Time of Sample Collection:

Total Depth of Well:
Original Water Column: _____ x 0.80 = --(_____)
Collect sample when Depth to Water measures
Less than or equal to:

SECOR
GROUNDWATER SAMPLING FIELD DATA SHEET

SECOR PN: ENFOS PO# 4506583796 DATE: 6/1/07 WELL NO. MW-4

FACILITY NAME: 256380 TEMPERATURE: 70 °F or °C

FIELD PERSONNEL: Tammy Parise WEATHER: Sunny

FIELD MEASUREMENTS:

A. Static Water Level (SWL) below top of casing/piezometer: 6.60 FT. or IN.

B. Thickness of Free Product, if present: _____ Inches _____ FT. or IN.

C. Total Depth of well (TD) from top of casing/piezometer: _____ FT. or IN.

D. Height of Water Column in casing (h = TD - SWL): _____ FT. or IN.

E. **Useful approximate Purge Volumes (PV) per foot of water column for common casing sizes:**

	3 Well Vols.	5 Well Vols.		
2" Diameter =	0.5 gals/ft	0.82 gals/ft	x feet of water_____ =	_____PV (Gal)
4" Diameter =	2.0 gals/ft	3.25 gals/ft	x feet of water_____ =	_____PV (Gal)
6" Diameter =	4.4 gals/ft	7.35 gals/ft	x feet of water_____ =	_____PV (Gal)

PURGING METHOD: LOW FLOW DURATION: START: 11:11 END: 11:38

OBSERVATIONS:	Time	Color	Turbidity	ORP	pH	DO	Temp.	Conduct.	SWL
1ST Volume:	11:16	C	660	46	7.05	0.00	17.91	0.607	6.61
2nd Volume:	11:19	C	780	56	7.04	1	16.75	0.641	6.65
3rd Volume:	11:22	C	730	58	7.03	1	16.81	0.637	6.65
4th Volume:	11:25	C	620	65	7.02		16.67	0.639	6.66
Addl. Volumes:									

TOTAL VOLUME OF WATER PURGED FROM WELL: .25 gallons

PURGE WATER STORED/DISPOSED OF WHERE/HOW: Taken offsite

SAMPLES COLLECTED: Depth to Water at time of sample collection: 6.66

Sample Number(s)	Time	Size/Number of Container(s)	Preservative
MW-4	11:26	6 voas	HCl
		1 amber	HCL

COMMENTS:

I took additional readings to stabilize temp.

Casing Capacities:
2-inch hole.....0.16 gal/lin ft.
4-inch hole.....0.65 gal/lin ft.
6.5-inch hole.....1.70 gal/lin ft.
8-inch hole.....2.60 gal/lin ft.
10-inch hole.....4.10 gal/lin ft.

Recharge Calculation at Time of Sample Collection:

Total Depth of Well:
Original Water Column: _____ x 0.80 = --(_____)
Collect sample when Depth to Water measures
Less than or equal to:

SECOR
GROUNDWATER SAMPLING FIELD DATA SHEET

SECOR PN: ENFOS PO# 4506583796 DATE: 6/1/07 WELL NO. MW-5

FACILITY NAME: 256380 TEMPERATURE: 80 °F or °C

FIELD PERSONNEL: Tammy Parise WEATHER: Sunny

FIELD MEASUREMENTS:

A. Static Water Level (SWL) below top of casing/piezometer: 4.10 FT. or IN.

B. Thickness of Free Product, if present: _____ Inches _____ FT. or IN.

C. Total Depth of well (TD) from top of casing/piezometer: _____ FT. or IN.

D. Height of Water Column in casing (h = TD - SWL): _____ FT. or IN.

E. **Useful approximate Purge Volumes (PV) per foot of water column for common casing sizes:**

	3 Well Vols.	5 Well Vols.		
2" Diameter =	0.5 gals/ft	0.82 gals/ft	x feet of water_____ =	_____PV (Gal)
4" Diameter =	2.0 gals/ft	3.25 gals/ft	x feet of water_____ =	_____PV (Gal)
6" Diameter =	4.4 gals/ft	7.35 gals/ft	x feet of water_____ =	_____PV (Gal)

PURGING METHOD: LOW FLOW DURATION: START: 1:20 END: 1:46

OBSERVATIONS:	Time	Color	Turbidity	ORP	pH	DO	Temp.	Conduct.	SWL
1ST Volume:	1:25	C	790	-69	7.18	0.00	19.67	0.762	4.40
2nd Volume:	1:28	C	630	-60	7.13		19.94	0.752	4.42
3rd Volume:	1:31	C	600	-54	7.13		20.37	0.745	4.45
4th Volume:									
Addl. Volumes:									

TOTAL VOLUME OF WATER PURGED FROM WELL: .25 gallons

PURGE WATER STORED/DISPOSED OF WHERE/HOW: Taken offsite

SAMPLES COLLECTED: Depth to Water at time of sample collection: 4.45

Sample Number(s)	Time	Size/Number of Container(s)	Preservative
MW-5	1:32	6 voas	HCl
		1 amber	HCL

COMMENTS:

Casing Capacities:
2-inch hole.....0.16 gal/lin ft.
4-inch hole.....0.65 gal/lin ft.
6.5-inch hole.....1.70 gal/lin ft.
8-inch hole.....2.60 gal/lin ft.
10-inch hole.....4.10 gal/lin ft.

Recharge Calculation at Time of Sample Collection:

Total Depth of Well:
Original Water Column: _____ x 0.80 = --( )
Collect sample when Depth to Water measures
Less than or equal to:

SECOR
GROUNDWATER SAMPLING FIELD DATA SHEET

SECOR PN: ENFOS PO# 4506583796 DATE: 6/1/07 WELL NO. MW-6

FACILITY NAME: 256380 TEMPERATURE: 75 °F or °C

FIELD PERSONNEL: Tammy Parise WEATHER: Sunny

FIELD MEASUREMENTS:

A. Static Water Level (SWL) below top of casing/piezometer: 5.73 FT. or IN.

B. Thickness of Free Product, if present: _____ Inches _____ FT. or IN.

C. Total Depth of well (TD) from top of casing/piezometer: _____ FT. or IN.

D. Height of Water Column in casing (h = TD - SWL): _____ FT. or IN.

E. **Useful approximate Purge Volumes (PV) per foot of water column for common casing sizes:**

	3 Well Vols.	5 Well Vols.	
2" Diameter =	0.5 gals/ft	0.82 gals/ft	x feet of water_____ = _____PV (Gal)
4" Diameter =	2.0 gals/ft	3.25 gals/ft	x feet of water_____ = _____PV (Gal)
6" Diameter =	4.4 gals/ft	7.35 gals/ft	x feet of water_____ = _____PV (Gal)

PURGING METHOD: LOW FLOW DURATION: START: 12:15 END: 12:41

OBSERVATIONS:	Time	Color	Turbidity	ORP	pH	DO	Temp.	Conduct.	SWL
1ST Volume:	12:20	C	660	-82	7.34	0.00	17.23	0.780	5.81
2nd Volume:	12:23	C	530	-82	7.42	"	17.01	0.776	5.87
3rd Volume:	12:26	C	520	-86	7.32	"	16.68	0.777	5.82
4th Volume:									
Addl. Volumes:									

TOTAL VOLUME OF WATER PURGED FROM WELL: .25 gallons

PURGE WATER STORED/DISPOSED OF WHERE/HOW: Taken offsite

SAMPLES COLLECTED: Depth to Water at time of sample collection: 5.82

Sample Number(s)	Time	Size/Number of Container(s)	Preservative
MW-6	12:27	6 voas	HCl
		1 amber	HCL

COMMENTS:

Casing Capacities:
2-inch hole.....0.16 gal/lin ft.
4-inch hole.....0.65 gal/lin ft.
6.5-inch hole.....1.70 gal/lin ft.
8-inch hole.....2.60 gal/lin ft.
10-inch hole.....4.10 gal/lin ft.

Recharge Calculation at Time of Sample Collection:

Total Depth of Well:
Original Water Column: _____ x 0.80 = --(_____)
Collect sample when Depth to Water measures
Less than or equal to:

SECOR
GROUNDWATER SAMPLING FIELD DATA SHEET

SECOR PN: ENFOS PO# 4506583796 DATE: 6/1/07 WELL NO. MW-7

FACILITY NAME: 256380 TEMPERATURE: 75 °F or °C

FIELD PERSONNEL: Tammy Parise WEATHER: Sunny

FIELD MEASUREMENTS:

A. Static Water Level (SWL) below top of casing/piezometer: 6.99 FT. or IN.

B. Thickness of Free Product, if present: _____ Inches _____ FT. or IN.

C. Total Depth of well (TD) from top of casing/piezometer: _____ FT. or IN.

D. Height of Water Column in casing (h = TD - SWL): _____ FT. or IN.

E. **Useful approximate Purge Volumes (PV) per foot of water column for common casing sizes:**

	3 Well Vols.	5 Well Vols.		
2" Diameter =	0.5 gals/ft	0.82 gals/ft	x feet of water_____ =	_____PV (Gal)
4" Diameter =	2.0 gals/ft	3.25 gals/ft	x feet of water_____ =	_____PV (Gal)
6" Diameter =	4.4 gals/ft	7.35 gals/ft	x feet of water_____ =	_____PV (Gal)

PURGING METHOD: LOW FLOW DURATION: START: 11:44 END: 12:09

OBSERVATIONS:	Time	Color	Turbidity	ORP	pH	DO	Temp.	Conduct.	SWL
1ST Volume:	11:49	C	750	-108	7.17	0.00	19.96	0.685	7.10
2nd Volume:	11:52	C	680	-108	7.20	/	19.96	0.682	7.10
3rd Volume:	11:55	C	630	-111	7.29	/	20.07	0.674	7.10
4th Volume:									
Addl. Volumes:									

TOTAL VOLUME OF WATER PURGED FROM WELL: .25 gallons

PURGE WATER STORED/DISPOSED OF WHERE/HOW: Taken offsite

SAMPLES COLLECTED: Depth to Water at time of sample collection: 7.10

Sample Number(s)	Time	Size/Number of Container(s)	Preservative
MW-7	11:56	6 voas	HCl
		1 amber	HCL

COMMENTS:

Casing Capacities:
2-inch hole.....0.16 gal/lin ft.
4-inch hole.....0.65 gal/lin ft.
6.5-inch hole.....1.70 gal/lin ft.
8-inch hole.....2.60 gal/lin ft.
10-inch hole.....4.10 gal/lin ft.

Recharge Calculation at Time of Sample Collection:

Total Depth of Well:
Original Water Column: _____ x 0.80 = -- (_____)
Collect sample when Depth to Water measures
Less than or equal to:

SECOR
GROUNDWATER SAMPLING FIELD DATA SHEET

SECOR PN: ENFOS PO# 4506583796 DATE: 6/1/07 WELL NO. MW-8

FACILITY NAME: 256380 TEMPERATURE: 70 °F or °C

FIELD PERSONNEL: Tammy Parise WEATHER: Sunny

FIELD MEASUREMENTS:

A. Static Water Level (SWL) below top of casing/piezometer: 7.77 FT. or IN.

B. Thickness of Free Product, if present: _____ Inches _____ FT. or IN.

C. Total Depth of well (TD) from top of casing/piezometer: _____ FT. or IN.

D. Height of Water Column in casing (h = TD - SWL): _____ FT. or IN.

E. **Useful approximate Purge Volumes (PV) per foot of water column for common casing sizes:**

	3 Well Vols.	5 Well Vols.	
2" Diameter =	0.5 gals/ft	0.82 gals/ft	x feet of water_____ = _____PV (Gal)
4" Diameter =	2.0 gals/ft	3.25 gals/ft	x feet of water_____ = _____PV (Gal)
6" Diameter =	4.4 gals/ft	7.35 gals/ft	x feet of water_____ = _____PV (Gal)

PURGING METHOD: LOW FLOW DURATION: START: 10:10 END: 10:34

OBSERVATIONS:	Time	Color	Turbidity	ORP	pH	DO	Temp.	Conduct.	SWL
1ST Volume:	10:15	C	610	71	6.76	0.50	18.37	0.825	7.85
2nd Volume:	10:18	C	570	69	6.86	1	18.50	0.852	7.86
3rd Volume:	10:21	C	560	66	6.95	1	18.54	0.858	7.86
4th Volume:									
Addl. Volumes:									

TOTAL VOLUME OF WATER PURGED FROM WELL: .25 gallons

PURGE WATER STORED/DISPOSED OF WHERE/HOW: Taken offsite

SAMPLES COLLECTED: Depth to Water at time of sample collection: 7.86

Sample Number(s)	Time	Size/Number of Container(s)	Preservative
MW-8	10:22	6 voas	HCl
		1 amber	HCL

COMMENTS:

Casing Capacities:
2-inch hole.....0.16 gal/lin ft.
4-inch hole.....0.65 gal/lin ft.
6.5-inch hole.....1.70 gal/lin ft.
8-inch hole.....2.60 gal/lin ft.
10-inch hole.....4.10 gal/lin ft.

Recharge Calculation at Time of Sample Collection:

Total Depth of Well:
Original Water Column: _____ x 0.80 = --(_____)
Collect sample when Depth to Water measures
Less than or equal to:

ConocoPhillips Analysis Request/Chain of Custody

Lancaster Laboratories

For Lancaster Labs Use ONLY Acct. #: ______ Group # ______ Sample#: ______ SCR#: ______

006604

Site #: 256380 AOC#: ______
Site City: Bellingham State: WA
Enfos PO# 4506583796
ConocoPhillips PM: Mike Noll
Samplers Name: TP

Analyses Requested — List total number of containers in the box under each analysis.

Preservation Codes: H, H, H, H

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

Matrix: Soil; Water (☐ Potable ☐ NPDES); ☐ Oil ☐ Air

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil / Air	NWTPH g	BTEX 8260B	MTBE 8260B	NWTPH d w/ silica gel cleanup	Remarks
MW-8	6/1/07	10:22	X			X		4	4	4	4	
MW-2		10:51										
MW-14		11:26										
MW-7		11:56										
MW-6		12:27										
MW-3		1:01										
MW-5		1:32										
MW-1		2:03										
Trip blanks												

Consultant Information:
Office City: Redmond State: WA
Project Manager: Meredith Redmon
Phone Number: 425 372-1600 Fax: 372-1650
Email: mredmon@seror.com

Electronic Data Deliverables (Circle One) (Yes) / No Format ______

Reporting Requirements (Circle One)
Standard Reports/QC Summary Full Validation (LLI Type I)
NJ Regulatory NJ Reduced NY ASP-A NY ASP-B Other ______

Turnaround Time Requested in Business Days (TAT) (Circle One):
(STD.) 5 day 48 hour 24 hour Other ______

Relinquished by:	Date	Time	Received by:	Date	Time
Tammy Pane	6/1/07	3pm			

Relinquished by Commercial Carrier:
UPS ______ FedEx ______ Other ______
Temperature Upon Receipt ______ C°

ConocoPhillips Analysis Request/Chain of Custody

Lancaster Laboratories 006605

For Lancaster Labs Use ONLY Acct. #: ______ Group # ______ Sample#: ______ SCR#: ______

Site #: 256380 AOC#: ______

Site City: Bellingham State: WA

Enfos PO# 4506583796

ConocoPhillips PM: Mike Noll

Samplers Name: Timmy Parise

Analyses Requested (List total number of containers in the box under each analysis.)

Preservation Codes: H, H, H, H

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	☐ Oil ☐ Air	NWTPH g	BTEX 8260B	MTBE 8260B	NWTPH dx	silica gel/cleanup	Remarks
MW-8	6/1/07	10:22	X			X		X	X	X	X		
MW-2	|	10:51	|			|		|	|	|	|		
MW-4	|	11:26	|			|		|	|	|	|		
MW-7	|	11:56	|			|		|	|	|	|		
MW-6	|	12:27	|			|		|	|	|	|		
MW-3	|	1:01	|			|		|	|	|	|		
MW-5	|	1:32	|			|		|	|	|	|		
MW-1	|	2:03	|			|		|	|	|	|		
Tripblanks	|		|			|		|	|	|			

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

Consultant Information:
Office City: Redmond State: WA
Project Manager: M. Redmon
Phone Number: 425 372-1600 Fax: 372-1650
Email: mredmon@secor.com

Electronic Data Deliverables (Circle One) Yes / No Format ______

Reporting Requirements (Circle One)
Standard Reports/QC Summary Full Validation (LLI Type I)
NJ Regulatory NJ Reduced NY ASP-A NY ASP-B Other ______

Turnaround Time Requested in Business Days (TAT) (Circle One):
STD 5 day 48 hour 24 hour Other ______

Relinquished by:	Date	Time	Received by:	Date	Time
Timmy Parise	6/1/07	3pm			

Relinquished by Commercial Carrier:
UPS ______ FedEx ______ Other ______

Temperature Upon Receipt ______ C°

Lancaster Laboratories

Sample Container Record

Order Number: 43816
Order Date: 05/25/2007
Page 1 of 1
Standard Frm#: 69200

Client: 11817
ConocoPhillips
1571 - Bellingham, WA

Ship To:

SECOR International
12034 134th Court NE
Ste 102
Redmond, WA 98052
425-372-1600
Attn: Tammy Parise

Group: 1

Number of Sample Locations: 9

One complete set of bottles listed below must be filled for each of the 9 sample location(s).

QC type

Count	Code	Description	Preservative	Analysis Name	Hold Time
3	26	40 ml glass vial	HCl	TPH by NWTPH-Gx waters	14 days
1	29	1000 ml round amber glass	HCl	TPH by NWTPH-Dx(water) w/SiGel	14 days
3	38	40 ml glass vial (GC/MS)	HCl	GC/MS Volatiles	14 days

Group: 2

Number of Sample Locations: 1

Sample Description	QC type
Trip Blank	Trip Blank

Count	Code	Description	Preservative	Analysis Name	Hold Time
2	26	40 ml glass vial	HCl	TPH by NWTPH-Gx waters	14 days
2	38	40 ml glass vial (GC/MS)	HCl	GC/MS Volatiles	14 days

RECEIVED
OCT 26 2007
DEPT. OF ECOLOGY
TCP-NWRO

If you have any questions, please contact your Client Service Representative, Barbara Weyandt at (717) 656-2300 X 1576

Date Needed:	Shipping Method	This order is:
05/30/2007	2nd Day	Per your Request