

DATE: November 2, 2005

ConocoPhillips

LUST 1855

GROUNDWATER MONITORING REPORT

Site No.: 255028 Address: 247 D Street, Blaine, Washington
 ConocoPhillips Site Manager: Kipp W. Eckert
 Consultant / Contact Person: SECOR International Inc. / Marc Sauze
 Primary Agency/Regulatory ID No.: Washington State Department of Ecology / Site ID No. 8472
 SECOR Project No: 01CP.05028.08

WORK PERFORMED THIS QUARTER(S) [3rd - 2005]:

- On September 15, 2005, SECOR personnel monitored seven (MW-1 through MW-4 and MW-6 through MW-8) and purged and sampled six (MW-2A through MW-4 and MW-6 through MW-8) of the existing network of eight groundwater monitoring wells (MW-1 through MW-8). Depth to water was recorded in MW-1 but no sample was collected because the well has not historically contained detectable concentrations of petroleum hydrocarbons and halogenated volatile organic compounds (HVOCs). MW-5 was not monitored because it could not be located and has not been monitored since May 25, 1999.
- 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 purging and sampling procedures are provided in Attachment B.
- Samples were submitted to Lancaster Laboratories for analysis of gasoline range hydrocarbon (TPH-g) per Ecology Method NWTPH-Gx, diesel (TPH-d) and motor-oil (TPH-o) range hydrocarbons per Ecology Method NWTPH-Dx modified with an acid/silica gel cleanup; benzene, toluene, ethylbenzene, and total xylenes (BTEX), and volatile organic compounds (VOCs) per United States Environmental Protection Agency (USEPA) Method 5035/8260B. The laboratory report is presented in Attachment A.

WORK PROPOSED FOR NEXT QUARTER [4th - 2005]:

- Measure depth to water of seven (MW-1 through MW-4 and MW-6 through MW-8) and purge and sample six (MW-2A, MW-3, MW-4 and MW-6 through MW-8) groundwater monitoring wells. Submit groundwater samples for analysis for NWTPH-Gx, NWTPH-Dx, BTEX, Methyl tert-butyl ether (MTBE) and VOCs.

**DATA SUMMARY THIS QUARTER:**

Frequency of Sampling Events:

Depth to Groundwater:

Groundwater Gradient:

Maximum TPH-G Concentrations:

Maximum TPH-D Concentrations:

Maximum TPH-O Concentrations:

Maximum Benzene Concentration:

Maximum TCE Concentration:

Maximum 1,2-DCA Concentration:

Maximum Vinyl Chloride Concentration:

Measurable Free Product Detected:

Free Product Recovered This Quarter:

Quarterly

4.76 ft (MW-2A)

to 6.67 ft. (MW-4)

Southwest

0.07 feet per foot

None Detected

None Detected

None Detected

2.6 µg/L (MW-7)

230 µg/L (MW-7)

None Detected

34 µg/L (MW-7)

No

None

(3/05,6/05,9/05,12/05)

(Measured Feet Below

Top of Well Casing)

(Inferred Flow Direction)

(Approximate Magnitude)

(ppb / well ID)

RECEIVED

NOV 15 2005

DEPT OF ECOLOGY

(Yes - ID well(s)/No)

(Gallons)

Cumulative Free Product Recovered to Date:	None	(Gallons)
Water Wells or	No Water Wells Identified	(Type)
Surface Waters w/in 2,000 ft:	Semiahmoo Bay	
Radius and Respective Direction From Site:	1,000 ft, West	(Distance & Direction)
Current Remedial Action:	MNA	(SVE/AS/P&T/MNA etc.)
Permits for Discharge:	None	(NPDES, POTW, etc.)

DISCUSSION:

- The inferred groundwater direction at the site is to the southwest. MW-7 was not used in flow determinations because the elevation appears to be anomalously low.
- The groundwater samples were received by Lancaster Laboratories on September 17, 2005. 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.
- No gasoline, diesel or heavy-oil-range hydrocarbons were detected at concentrations greater than the laboratory reporting limits (RLs) in any of the groundwater samples collected this quarter.
- Benzene was detected at concentrations greater than the RLs in the groundwater samples collected from MW-3, MW-7 and MW-8 at 0.7 micrograms per liter ($\mu\text{g/L}$), 2.6 $\mu\text{g/L}$, and 0.6 $\mu\text{g/L}$, respectively. No BTEX constituents were detected at concentrations greater than the RLs in any other groundwater samples collected this quarter.
- Trichloroethene (TCE) was detected at concentrations greater than MTCA A in groundwater samples collected from MW-7 and MW-8 at 230 $\mu\text{g/L}$ and 12 $\mu\text{g/L}$, respectively.
- Cis-1,2-Dichloroethene (1,2-DCE) was detected at concentrations greater than the RLs in the groundwater samples collected from MW-4, MW-7, and MW-8 at 30 $\mu\text{g/L}$, 460 $\mu\text{g/L}$, and 72 $\mu\text{g/L}$. No cleanup level is currently established for 1,2-DCE under MTCA A.
- Vinyl Chloride (VC) was detected at concentrations greater than MTCA A in the groundwater samples collected from MW-4, MW-7, and MW-8 at 3 $\mu\text{g/L}$, 34 $\mu\text{g/L}$, and 9 $\mu\text{g/L}$, respectively.
- One drum containing approximately 55 gallons of purge water was labeled and left on site.

ATTACHMENTS:

Figure 1: Site Location Map

Figure 2: Site Plan with Groundwater Elevations (09/15/05)

Figure 3: Site Plan with Analytical Results (12/29/04 – 9/15/05)

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:

Meredith Redmon

Meredith Redmon
Staff Scientist

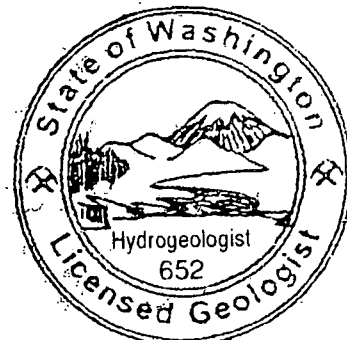
Reviewed By:

Maureen E. Sanchez

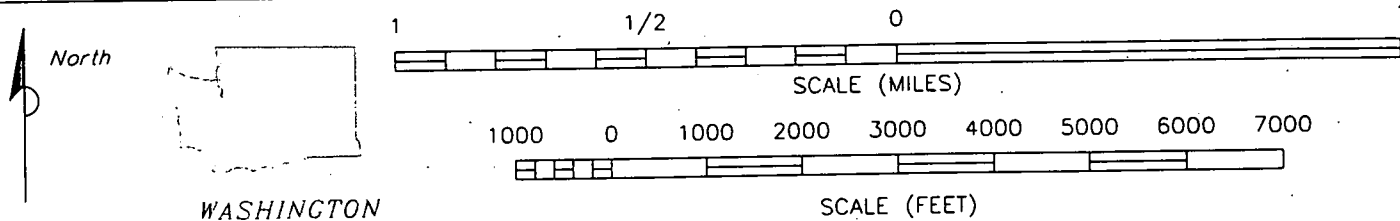
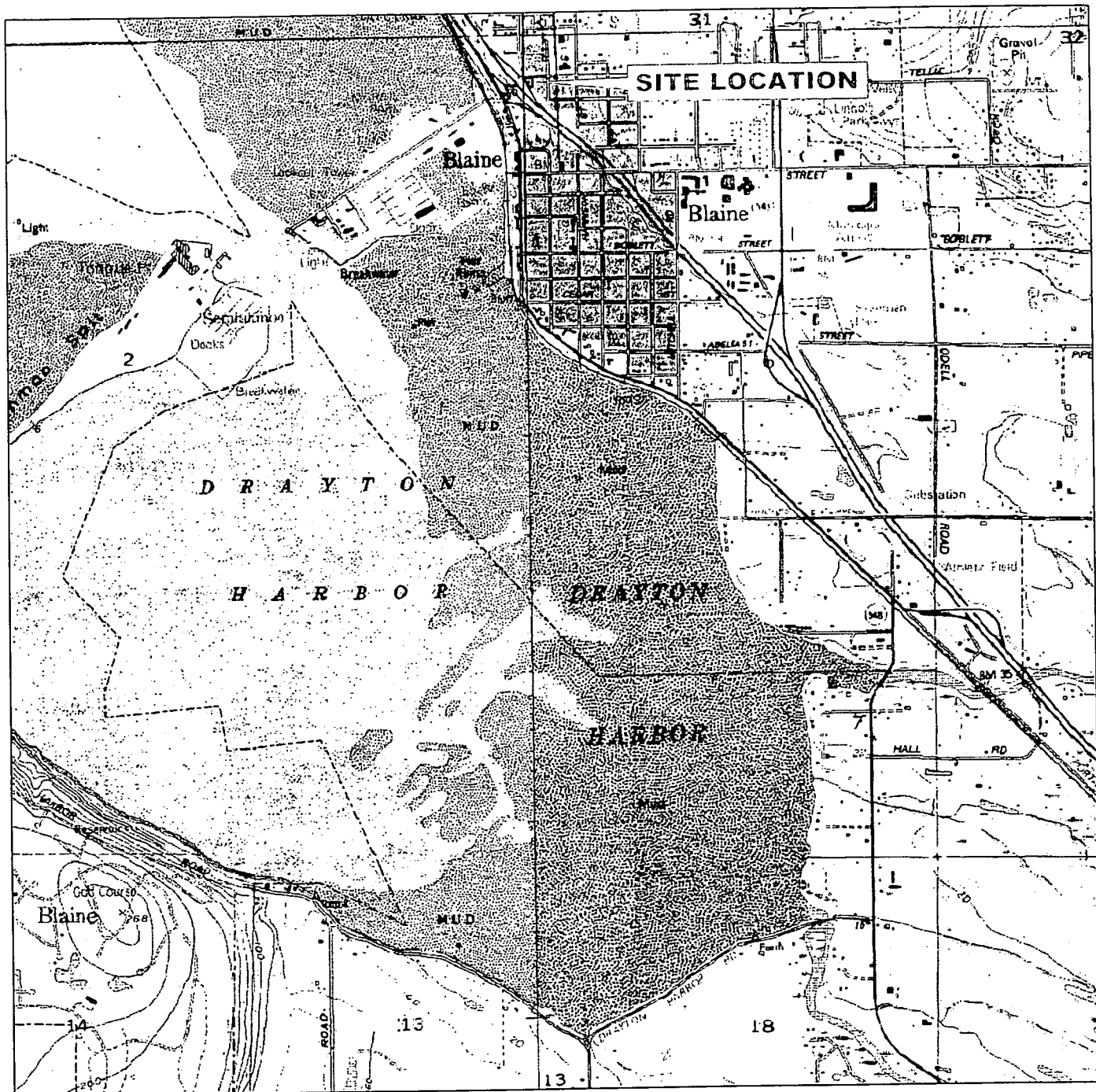
Maureen E. Sanchez, L.G.
Senior Hydrogeologist

CC: Washington State Department of Ecology, Northwest Regional Office

MR/MS/bjw



Maureen E. Sanchez



REFERENCE: USGS 7.5 MINUTE QUADRANGLE; BLAINE, WASHINGTON; 1952



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

PREPARED FOR:

ConocoPhillips

FACILITY NO 255028
247 D STREET
BLAINE, WASHINGTON

JOB NUMBER:
01CP.05028.10

DRAWN BY:
S. SIMMONS

CHECKED BY:

APPROVED BY:

FIGURE:

1

DATE:
2/4/04

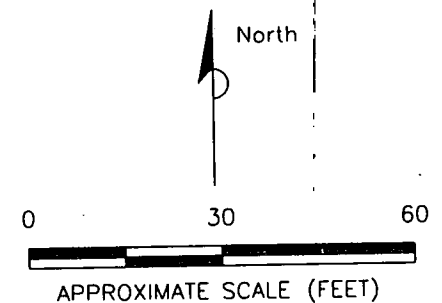
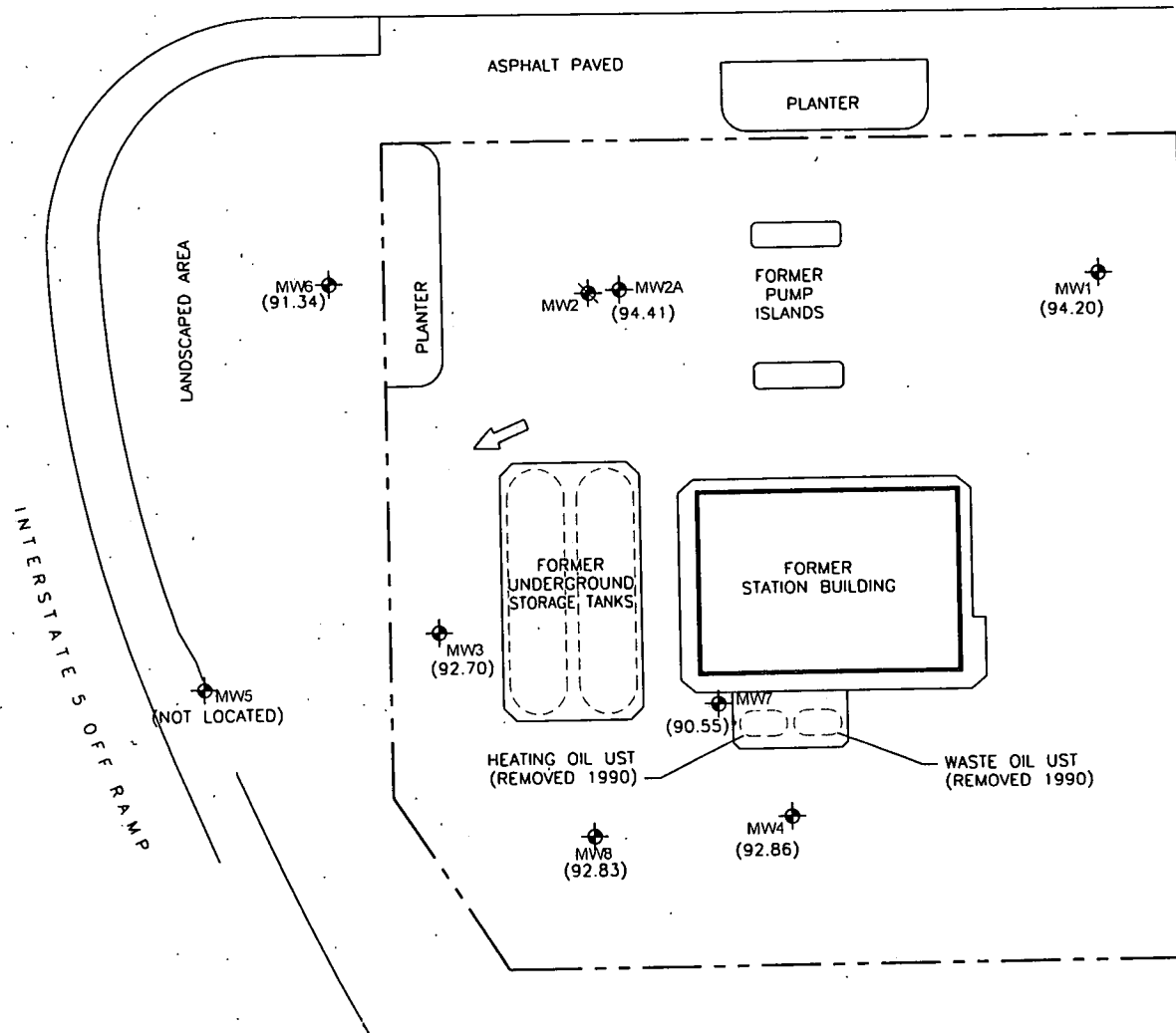
D STREET

LEGEND

- SITE BOUNDARY
- ⊕ MONITORING WELL LOCATION
- ⊕ ABANDONED MONITORING WELL LOCATION
- GROUNDWATER**
- (120.00) GROUNDWATER ELEVATION
- ← INDICATES APPARENT GROUNDWATER FLOW DIRECTION

NOTES:

- 1). ALL LOCATIONS ARE APPROXIMATE.



SOURCE:
 BASE MAP FROM: ENVIRONMENTAL RESOLUTIONS, INC.
 (ERI) TITLED GROUNDWATER SAMPLE ANALYSIS MAP--
 06/09/03, PLATE 1, DATED 07/14/03, PROJECT
 NO. 31017. CADD FILE 31017.13.DWG



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JOB NUMBER:
 01CP.05028.08

DRAWN BY:
 S. SIMMONS

CHECKED BY:
 KH

APPROVED BY:

FIGURE:

2

DATE:
 11/4/05

D STREET

LEGEND

--- SITE BOUNDARY

* MONITORING WELL LOCATION

* ABANDONED MONITORING WELL LOCATION

ANALYTES

TPHg TOTAL PETROLEUM
HYDROCARBONS GASOLINETPHd TOTAL PETROLEUM
HYDROCARBONS DIESELTPHo TOTAL PETROLEUM
HYDROCARBONS OIL

B BENZENE

T TOLUENE

E ETHYLBENZENE

X TOTAL XYLENES

MTBE METHYL TERT-BUTYL ETHER

TCE TRICHLOROETHENE

1,2-DCE cis-1,2-DICHLOROETHENE

CA CHLOROETHANE

1,1-DCA 1,1-DICHLOROETHANE

1,2-DCA 1,2-DICHLOROETHANE

VC VINYL CHLORIDE

-- NOT ANALYZED OR DETECTED

(µg/L) MICROGRAMS PER LITER

(NS) NOT SAMPLED

NOTES:

1). ALL LOCATIONS ARE APPROXIMATE.

2). ALL RESULTS ARE IN (µg/L)

MW6	12/29/04	3/3/05	6/9/05	9/15/05
TPHg	<100	<100	<100	<48
TPHd	<237	<237	<238	<74
TPHo	<474	<474	<476	<93
B	<1.0	<1.00	<1	<0.5
T	1.55	<1.00	<1	<0.5
E	<1.00	<1.00	<1	<0.5
X	<3.00	<3.00	<3	<1.5
1,2-DCE	<1.0	<0.0	<1	<0.8
CA	<1.0	<1.00	<1	<1
1,1-DCA	<1.0	<1.00	<1	<1
1,2-DCA	<1.0	1.31	<1	<1
VC	<1.0	<1.00	<1	<1
MTBE	--	--	5.12	--
TCE	--	<1	<1	<1

MW2A	12/29/04	3/3/05	6/9/05	9/15/05
TPHg	<100	<100	<100	<48
TPHd	<241	<240	<238	<160
TPHo	<481	<480	<476	<200
B	<1.00	<1.00	<1	<0.5
T	<1.00	<1.00	<1	<0.5
E	<1.00	<1.00	<1	<0.5
X	<3.00	<3.00	<3	<1.5
1,2-DCE	<1.0	<1.0	<1	<0.8
CA	<1.0	<1.0	<1	<1
1,1-DCA	<1.0	<1.0	<1	<1
1,2-DCA	<1.0	<1.0	<1	<1
VC	<1.0	<1.0	<1	<1
MTBE	--	--	<1	--
TCE	--	--	<1	<1

MW3	12/29/04	3/3/05	6/9/05	9/15/05
TPHg	<100	<100	<100	<48
TPHd	<239	<238	<238	<75
TPHo	<477	<476	<476	<94
B	<1.00	<1.00	4.83	0.7
T	<1.00	<1.00	<1	<0.5
E	<1.00	<1.00	<1	<0.5
X	<3.00	<3.00	<3	<1.5
1,2-DCE	<1.0	<1.0	<1	<0.8
CA	<1.0	<1.0	<1	<1
1,1-DCA	<1.0	<1.0	<1	<1
1,2-DCA	<1.0	<1.0	<1	<1
VC	<1.0	<1.0	<2.13	<1
MTBE	--	--	39.8	--
TCE	--	--	<1	<1

MW7	6/9/05	9/15/05
TPHg	<100	<48
TPHd	<238	<75
TPHo	<476	<94
B	<1	2.6
T	<1	<0.5
E	<1	<0.5
X	<3	<1.5
1,2-DCE	<1	460
CA	<1	<1
1,1-DCA	<1	<1
1,2-DCA	156	<1
VC	6.36	34
MTBE	138	--
TCE	14.6	230

MW8	6/9/05	9/15/05
TPHg	<100	<48
TPHd	<238	<75
TPHo	<476	<94
B	<5	0.6
T	<5	<0.5
E	<5	<0.5
X	<15	<1.5
1,2-DCE	<5	72
CA	<5	<1
1,1-DCA	<5	<1
1,2-DCA	177	<1
VC	36.3	9
MTBE	<5	--
TCE	72	12

MW4	12/29/04	3/3/05	6/9/05	9/15/05
TPHg	<100	<100	<100	<48
TPHd	<239	<242	<238	<75
TPHo	<478	<483	<476	<94
B	<1.00	<1.00	<1	<0.5
T	<1.00	<1.00	<1	<0.5
E	<1.00	<1.00	<1	<0.5
X	<3.00	<3.00	<3	<1.5
1,2-DCE	23.5	23.8	32.5	30
CA	<1.0	<1.0	<1	<1
1,1-DCA	<1.0	<1.0	<1	<1
1,2-DCA	<1.0	<1.0	<1	<1
VC	2.59	<1.0	2.84	3
MTBE	--	--	<1	--
TCE	--	--	<1	<1

HEATING OIL UST
(REMOVED 1990)WASTE OIL UST
(REMOVED 1990)

North

0 30 60

APPROXIMATE SCALE (FEET)

SOURCE:

BASE MAP FROM: ENVIRONMENTAL RESOLUTIONS, INC.
(ERI) TITLED GROUNDWATER SAMPLE ANALYSIS MAP-
06/09/03, PLATE 1, DATED 07/14/03, PROJECT
NO. 31017. CADD FILE 31017.13.DWG



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DRAWN BY:

S. SIMMONS

CHECKED BY:

APPROVED BY:

FIGURE:

3

DATE:

11/4/05

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TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
 ConocoPhillips Facility No. 255028
 247 D Street
 Blaine, Washington

Well Name TOC Elevation	Sample Date	DTW	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X	TCE	1,2-DCE	CA	1,1-DCA	1,2-DCA	VC	MTBE
MW1 100.42	12/29/04	3.13	97.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/03/05	3.38	97.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/09/05	3.57	96.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/15/05	6.22	94.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW2 98.49	Destroyed																
MW2A 99.17	12/29/04	0.88	98.29	<100	<241	<481	<1.00	<1.00	<1.00	<3.00	*	<1.0	<1.0	<1.0	<1.0	<1.0	--
	03/03/05	3.03	96.14	<100	<240	<480	<1.00	<1.00	<1.00	<3.00	*	<1.0	<1.0	<1.0	<1.0	<1.0	--
	06/09/05	3.15	96.02	<100	<238	<476	<1	<1	<1	<3	<1	<1	<1	<1	<1	<1	<1
	09/15/05	4.78	94.41	<48	<160	<200	<0.5	<0.5	<0.5	<1.5	<1	<0.8	<1	<1	<1	<1	--
MW3 98.57	12/29/04	1.54	97.03	<100	<239	<477	<1.00	<1.00	<1.00	<3.00	*	<1.0	<1.0	<1.0	<1.0	<1.0	--
	03/03/05	1.98	96.59	<100	<238	<476	<1.00	<1.00	<1.00	<3.00	*	<1.0	<1.0	<1.0	<1.0	<1.0	--
	06/09/05	2.91	95.66	<100	<238	<476	4.83	<1	<1	<3	<1	<1	<1	<1	<1	<1	39.8
	09/15/05	5.87	92.70	<48	<75	<94	0.7	<0.5	<0.5	<1.5	<1	<0.8	<1	<1	<1	<1	--
MW4 99.53	12/29/04	3.90	95.63	<100	<239	<478	<1.00	<1.00	<1.00	<3.00	*	23.5	<1.0	<1.0	<1.0	2.59	--
	03/03/05	4.57	94.96	<100	<242	<483	<1.00	<1.00	<1.00	<3.00	*	23.8	<1.0	<1.0	<1.0	<1.0	--
	06/09/05	3.83	95.70	<100	<238	<476	<1	<1	<1	<3	<1	32.5	<1	<1	<1	2.84	<1
	09/15/05	6.67	92.86	<48	<75	<94	<0.5	<0.5	<0.5	<1.5	<1	30	<1	<1	<1	3	--
MW5 92.96	08/12/99	Unable to Locate Since 8/12/99															
MW6 97.84	12/29/04	1.12	96.72	<100	<237	<474	<1.00	1.55	<1.00	<3.00	*	<1.0	<1.0	<1.0	<1.0	<1.0	--
	03/03/05	4.64	93.20	<100	<237	<474	<1.00	<1.00	<1.00	<3.00	*	<1.0	<1.0	<1.0	1.31	<1.0	--
	06/09/05	4.96	92.88	<100	<238	<476	<1	<1	<1	<3	<1	<1	<1	<1	<1	<1	5.12
	09/15/05	6.50	91.34	<48	<74	<93	<0.5	<0.5	<0.5	<1.5	<1	<0.8	<1	<1	<1	<1	--
MW-7 95.37	06/09/05	3.16	NM	<100	<238	<476	<1	<1	<1	<3	14.6	<1	<1	<1	156	6.36	138
	9/15/2005 ⁽¹⁾	4.82	93.02	<48	<75	<94	2.6	<0.5	<0.5	<1.5	230	450	<1	<1	<1	34	--
MW-8 99.05	06/09/05	4.31	NM	<100	<238	<476	<5	<5	<5	<15	72	<5	<5	<5	177	36.3	<5
	09/15/05	6.22	92.83	<48	<75	<94	0.6	<0.5	<0.5	<1.5	12	72	<1	<1	<1	9	--
MTCA Method A Cleanup Level				1000/800 ^a	500	500	5	1000	700	1000	5	NA	NA	NA	5	0.2	20

EXPLANATION:

All concentrations are in ug/L (ppb).
 TOC = Top of casing. Wellhead elevations were taken from prior consultant's reports.
 DTW = Depth to water in feet below top of casing
 GW Elev. = Groundwater elevation relative to top of casing elevations
 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
 1,2-DCE = Cis-1,2-Dichloroethene; CA = Chloroethane; 1,1-DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; VC = Vinyl Chloride; TCE = Trichloroethene; MTBE = Methyl Tert-Butyl Ether
 1,2-DCE, CA, 1,1-DCA, 1,2-DCA, TCE, Chloroethane and VC by EPA 8010B (modified) or EPA 8260B; refer to lab reports
 BTEX = Aromatic compounds by EPA Method 8020, EPA 8021B or 8260B; refer to official laboratory reports
 * TCE not reported prior to 6/9/05. Data may be available in previous reports.

< = Less than the stated laboratory reporting limit
 NM = Not Measured; NA = Not Applicable;
 ND = Not Detected above the laboratory reporting limit; -- = Not Analyzed or Sampled
 Bolded values equal or exceed MTCA Method A Cleanup Levels.
 * Concentration levels stated by MTCA Method A for TPH-G are 1000 ug/L when no benzene is present and 800 ug/L when benzene is present.
 Data collected before 12/12/03 are taken from prior consultants
⁽¹⁾ 1,1-dichloroethene and trans-1,2-dichloroethene both detected in this sample at a concentrations of 3 ug/L

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



Analysis Report

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

ANALYTICAL RESULTS

Prepared for:

ConocoPhillips c/o Shaw Env.
19909 120th Ave. NE
Suite 101
Bothell WA 98011
206-706-2341

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 959704. Samples arrived at the laboratory on Saturday, September 17, 2005. The PO# for this group is 1344SEC008 and the release number is ECKERT.

Client Description

MW-2A Grab Water Sample
MW-3 Grab Water Sample
MW-4 Grab Water Sample
MW-6 Grab Water Sample
MW-7 Grab Water Sample
MW-8 Grab Water Sample
Trip Blank Water Sample

Lancaster Labs Number

4605195
4605196
4605197
4605198
4605199
4605200
4605201

1 COPY TO SECOR
1 COPY TO SECOR International

Attn: August Welch
Attn: Meredith Redmon



Analysis Report

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

Questions? Contact your Client Services Representative
Teresa L Cunningham at (717) 656-2300

Respectfully Submitted,

A handwritten signature in cursive script that reads "Dana M. Kauffman".

Dana M. Kauffman
Manager



Analysis Report

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

Page 1 of 2

Lancaster Laboratories Sample No. WW 4605195

MW-2A Grab Water Sample

Site# 1344 (255028)

247 D Street - Blaine, WA

Collected: 09/15/2005 14:05

by MD

Account Number: 11817

Submitted: 09/17/2005 09:55

Reported: 09/29/2005 at 08:35

Discard: 10/30/2005

ConocoPhillips c/o Shaw Env.

19909 120th Ave. NE

Suite 101

Bothell WA 98011

BLNE2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	160.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	200.	ug/l	1
	Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.					
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	48.	ug/l	1
05382	Volatiles by 8260 Full Scan					
05385	Chloromethane	74-87-3	N.D.	1.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	1.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	1.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	2.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.	0.8	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	1.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.	ug/l	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4605195

MW-2A Grab Water Sample

Site# 1344 (255028)

247 D Street - Blaine, WA

Collected: 09/15/2005 14:05

by MD

Account Number: 11817

Submitted: 09/17/2005 09:55

Reported: 09/29/2005 at 08:35

Discard: 10/30/2005

ConocoPhillips c/o Shaw Env.

19909 120th Ave. NE

Suite 101

Bothell WA 98011

BLNE2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05419	Bromoform	75-25-2	N.D.	1.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	1.	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	1.	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	1.	ug/l	1
08202	Volatiles 8260 full scan cont					
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	ug/l	1
08203	Freon 113	76-13-1	N.D.	2.	ug/l	1

State of Washington Lab Certification No. C259

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel	NWTPH-Dx, ECY 97-602(modified)	1	09/22/2005 17:59	Matthew E Barton	1
05879	BTEX	SW-846 8021B	1	09/21/2005 21:40	Martha L Seidel	1
08274	TPH by NWTPH-Gx waters	NWTPH-Gx - 8015B Mod.	1	09/21/2005 21:40	Martha L Seidel	1
05382	Volatiles by 8260 Full Scan	SW-846 8260B	1	09/19/2005 23:20	Emiley A King	1
08202	Volatiles 8260 full scan cont	SW-846 8260B	1	09/19/2005 23:20	Emiley A King	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/21/2005 21:40	Martha L Seidel	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/19/2005 23:20	Emiley A King	n.a.
02135	Extraction - DRO Water Special	NWTPH-Dx, ECY 97-602, 6/97	1	09/21/2005 06:30	Denise L Trimby	1



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Lancaster Laboratories Sample No. WW 4605196

MW-3 Grab Water Sample

Site# 1344 (255028)

247 D Street - Blaine, WA

Collected: 09/15/2005 14:31

by MD

Account Number: 11817

Submitted: 09/17/2005 09:55

Reported: 09/29/2005 at 08:35

Discard: 10/30/2005

ConocoPhillips c/o Shaw Env.

19909 120th Ave. NE

Suite 101

Bothell WA 98011

BLNE3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	75.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	94.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	0.7	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	48.	ug/l	1
05382	Volatiles by 8260 Full Scan					
05385	Chloromethane	74-87-3	N.D.	1.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	1.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	1.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	2.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.	0.8	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	1.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05419	Bromoform	75-25-2	N.D.	1.	ug/l	1



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Lancaster Laboratories Sample No. WW 4605196

MW-3 Grab Water Sample

Site# 1344 (255028)

247 D Street - Blaine, WA

Collected: 09/15/2005 14:31

by MD

Account Number: 11817

Submitted: 09/17/2005 09:55

Reported: 09/29/2005 at 08:35

Discard: 10/30/2005

ConocoPhillips c/o Shaw Env.

19909 120th Ave. NE

Suite 101

Bothell WA 98011

BLNE3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Units	Dilution Factor
				Detection Limit		
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	1.	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	1.	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	1.	ug/l	1
08202	Volatiles 8260 full scan cont					
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	ug/l	1
08203	Freon 113	76-13-1	N.D.	2.	ug/l	1

State of Washington Lab Certification No. C259

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
02211	TPH by NWTPH-Dx(water) w/SiGel	NWTPH-Dx, ECY 97-602(modified)	1	09/22/2005 18:47	Matthew E Barton	1
05879	BTEX	SW-846 8021B	1	09/21/2005 22:13	Martha L Seidel	1
08274	TPH by NWTPH-Gx waters	NWTPH-Gx - 8015B Mod.	1	09/21/2005 22:13	Martha L Seidel	1
05382	Volatiles by 8260 Full Scan	SW-846 8260B	1	09/20/2005 06:14	Emiley A King	1
08202	Volatiles 8260 full scan cont	SW-846 8260B	1	09/20/2005 06:14	Emiley A King	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/21/2005 22:13	Martha L Seidel	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/20/2005 06:14	Emiley A King	n.a.
02135	Extraction - DRO Water Special	NWTPH-Dx, ECY 97-602, 6/97	1	09/21/2005 06:30	Denise L Trimby	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4605197

MW-4 Grab Water Sample

Site# 1344 (255028)

247 D Street - Blaine, WA

Collected: 09/15/2005 15:57

by MD

Account Number: 11817

Submitted: 09/17/2005 09:55

Reported: 09/29/2005 at 08:35

Discard: 10/30/2005

ConocoPhillips c/o Shaw Env.

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BLNE4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	75.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	94.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	48.	ug/l	1
05382	Volatiles by 8260 Full Scan					
05385	Chloromethane	74-87-3	N.D.	1.	ug/l	1
05386	Vinyl Chloride	75-01-4	3.	1.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	1.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	2.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.	0.8	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	30.	0.8	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	1.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05419	Bromoform	75-25-2	N.D.	1.	ug/l	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4605197

MW-4 Grab Water Sample

Site# 1344 (255028)

247 D Street - Blaine, WA

Collected: 09/15/2005 15:57

by MD

Account Number: 11817

Submitted: 09/17/2005 09:55

Reported: 09/29/2005 at 08:35

Discard: 10/30/2005

ConocoPhillips c/o Shaw Env.

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BLNE4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	1.	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	1.	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	1.	ug/l	1
08202	Volatiles 8260 full scan cont					
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	ug/l	1
08203	Freon 113	76-13-1	N.D.	2.	ug/l	1

State of Washington Lab Certification No. C259

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel	NWTPH-Dx, ECY 97-602(modified)	1	09/22/2005 19:11	Matthew E Barton	1
05879	BTEX	SW-846 8021B	1	09/21/2005 22:45	Martha L Seidel	1
08274	TPH by NWTPH-Gx waters	NWTPH-Gx - 8015B Mod.	1	09/21/2005 22:45	Martha L Seidel	1
05382	Volatiles by 8260 Full Scan	SW-846 8260B	1	09/20/2005 06:38	Emiley A King	1
08202	Volatiles 8260 full scan cont	SW-846 8260B	1	09/20/2005 06:38	Emiley A King	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/21/2005 22:45	Martha L Seidel	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/20/2005 06:38	Emiley A King	n.a.
02135	Extraction - DRO Water Special	NWTPH-Dx, ECY 97-602, 6/97	1	09/21/2005 06:30	Denise L Trimby	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4605198

MW-6 Grab Water Sample

Site# 1344 (255028)

247 D Street - Blaine, WA

Collected: 09/15/2005 15:30

by MD

Account Number: 11817

Submitted: 09/17/2005 09:55

Reported: 09/29/2005 at 08:35

Discard: 10/30/2005

ConocoPhillips c/o Shaw Env.

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BLNE6

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	74.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	93.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	48.	ug/l	1
05382	Volatiles by 8260 Full Scan					
05385	Chloromethane	74-87-3	N.D.	1.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	1.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	1.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	2.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.	0.8	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	1.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05419	Bromoform	75-25-2	N.D.	1.	ug/l	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4605198

MW-6 Grab Water Sample

Site# 1344 (255028)

247 D Street - Blaine, WA

Collected: 09/15/2005 15:30

by MD

Account Number: 11817

Submitted: 09/17/2005 09:55

Reported: 09/29/2005 at 08:35

Discard: 10/30/2005

ConocoPhillips c/o Shaw Env.

19909 120th Ave. NE

Suite 101

Bothell WA 98011

BLNE6

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	1.	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	1.	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	1.	ug/l	1
08202	Volatiles 8260 full scan cont					
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	ug/l	1
08203	Freon 113	76-13-1	N.D.	2.	ug/l	1

State of Washington Lab Certification No. C259

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02211.	TPH by NWTPH-Dx(water) w/SiGel	NWTPH-Dx, ECY 97-602(modified)	1	09/22/2005 19:58	Matthew E Barton	1
05879	BTEX	SW-846 8021B	1	09/21/2005 23:18	Martha L Seidel	1
08274	TPH by NWTPH-Gx waters	NWTPH-Gx - 8015B Mod.	1	09/21/2005 23:18	Martha L Seidel	1
05382	Volatiles by 8260 Full Scan	SW-846 8260B	1	09/20/2005 07:02	Emiley A King	1
08202	Volatiles 8260 full scan cont	SW-846 8260B	1	09/20/2005 07:02	Emiley A King	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/21/2005 23:18	Martha L Seidel	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/20/2005 07:02	Emiley A King	n.a.
02135	Extraction - DRO Water Special	NWTPH-Dx, ECY 97-602, 6/97	1	09/21/2005 06:30	Denise L Trimby	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4605199

MW-7 Grab Water Sample

Site# 1344 (255028)

247 D Street - Blaine, WA

Collected: 09/15/2005 16:20

by MD

Account Number: 11817

Submitted: 09/17/2005 09:55

Reported: 09/29/2005 at 08:35

Discard: 10/30/2005

ConocoPhillips c/o Shaw Env.

19909 120th Ave. NE

Suite 101

Bothell WA 98011

BLNE7

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	75.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	94.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	2.6	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	48.	ug/l	1
05382	Volatiles by 8260 Full Scan					
05385	Chloromethane	74-87-3	N.D.	1.	ug/l	1
05386	Vinyl Chloride	75-01-4	34.	1.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	1.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	2.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	3.	0.8	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	3.	0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	460.	4.	ug/l	5
05396	Chloroform	67-66-3	N.D.	0.8	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	1.	ug/l	1
05403	Trichloroethene	79-01-6	230.	1.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05419	Bromoform	75-25-2	N.D.	1.	ug/l	1



Lancaster Laboratories Sample No. WW 4605199

MW-7 Grab Water Sample

Site# 1344 (255028)

247 D Street - Blaine, WA

Collected: 09/15/2005 16:20 by MD

Account Number: 11817

Submitted: 09/17/2005 09:55

Reported: 09/29/2005 at 08:35

Discard: 10/30/2005

ConocoPhillips c/o Shaw Env.

19909 120th Ave. NE

Suite 101

Bothell WA 98011

BLNE7

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	1.	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	1.	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	1.	ug/l	1
08202	Volatiles 8260 full scan cont					
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	ug/l	1
08203	Freon 113	76-13-1	N.D.	2.	ug/l	1

State of Washington Lab Certification No. C259

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel	NWTPH-Dx, ECY 97-602(modified)	1	09/22/2005 20:46	Matthew E Barton	1
05879	BTEX	SW-846 8021B	1	09/22/2005 02:03	Martha L Seidel	1
08274	TPH by NWTPH-Gx waters	NWTPH-Gx - 8015B Mod.	1	09/22/2005 02:03	Martha L Seidel	1
05382	Volatiles by 8260 Full Scan	SW-846 8260B	1	09/20/2005 05:25	Emiley A King	1
05382	Volatiles by 8260 Full Scan	SW-846 8260B	1	09/20/2005 10:46	Shawn J Rice	5
08202	Volatiles 8260 full scan cont	SW-846 8260B	1	09/20/2005 05:25	Emiley A King	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/22/2005 02:03	Martha L Seidel	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/20/2005 05:25	Emiley A King	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	2	09/20/2005 10:46	Shawn J Rice	n.a.
02135	Extraction - DRO Water Special	NWTPH-Dx, ECY 97-602, 6/97	1	09/21/2005 06:30	Denise L Trimby	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4605200

MW-8 Grab Water Sample

Site# 1344 (255028)

247 D. Street - Blaine, WA

Collected: 09/15/2005 14:53

by MD

Account Number: 11817

Submitted: 09/17/2005 09:55

Reported: 09/29/2005 at 08:35

Discard: 10/30/2005

ConocoPhillips c/o Shaw Env.

19909 120th Ave. NE

Suite 101

Bothell WA 98011

BLNE8

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	75.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	94.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	0.6	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	48.	ug/l	1
05382	Volatiles by 8260 Full Scan					
05385	Chloromethane	74-87-3	N.D.	1.	ug/l	1
05386	Vinyl Chloride	75-01-4	9.	1.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	1.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	2.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.	0.8	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	72.	0.8	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	1.	ug/l	1
05403	Trichloroethene	79-01-6	12.	1.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05419	Bromoform	75-25-2	N.D.	1.	ug/l	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4605200

MW-8 Grab Water Sample

Site# 1344 (255028)

247 D Street - Blaine, WA

Collected: 09/15/2005 14:53

by MD

Account Number: 11817

Submitted: 09/17/2005 09:55

Reported: 09/29/2005 at 08:35

Discard: 10/30/2005

ConocoPhillips c/o Shaw Env.

19909 120th Ave. NE

Suite 101

Bothell WA 98011

BLNE8

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Units	Dilution Factor
				Detection Limit		
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	1.	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	1.	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	1.	ug/l	1
08202	Volatiles 8260 full scan cont					
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	ug/l	1
08203	Freon 113	76-13-1	N.D.	2.	ug/l	1

State of Washington Lab Certification No. C259

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
02211	TPH by NWTPH-Dx(water) w/SiGel	NWTPH-Dx, ECY 97-602(modified)	1	09/22/2005 20:22	Matthew E Barton	1
05879	BTEX	SW-846 8021B	1	09/22/2005 02:36	Martha L Seidel	1
08274	TPH by NWTPH-Gx waters	NWTPH-Gx - 8015B Mod.	1	09/22/2005 02:36	Martha L Seidel	1
05382	Volatiles by 8260 Full Scan	SW-846 8260B	1	09/20/2005 05:49	Emiley A King	1
08202	Volatiles 8260 full scan cont	SW-846 8260B	1	09/20/2005 05:49	Emiley A King	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/22/2005 02:36	Martha L Seidel	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/20/2005 05:49	Emiley A King	n.a.
02135	Extraction - DRO Water Special	NWTPH-Dx, ECY 97-602, 6/97	1	09/21/2005 06:30	Denise L Trimby	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4605201

Trip Blank Water Sample
Site# 1344 (255028)
247 D Street - Blaine, WA
Collected: n.a.

Account Number: 11817

Submitted: 09/17/2005 09:55
Reported: 09/29/2005 at 08:35
Discard: 10/30/2005

ConocoPhillips c/o Shaw Env.
19909 120th Ave. NE
Suite 101
Bothell WA 98011

TBBLN

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	48.	ug/l	1
05382	Volatiles by 8260 Full Scan					
05385	Chloromethane	74-87-3	N.D.	1.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	1.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	1.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	2.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.	0.8	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	1.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05419	Bromoform	75-25-2	N.D.	1.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	1.	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	1.	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	1.	ug/l	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4605201

Trip Blank Water Sample
Site# 1344 (255028)
247 D Street - Blaine, WA
Collected: n.a.

Account Number: 11817

Submitted: 09/17/2005 09:55
Reported: 09/29/2005 at 08:35
Discard: 10/30/2005

ConocoPhillips c/o Shaw Env.
19909 120th Ave. NE
Suite 101
Bothell WA 98011

TBBLN

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08202	Volatiles 8260 full scan cont					
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	ug/l	1
08203	Freon 113	76-13-1	N.D.	2.	ug/l	1

State of Washington Lab Certification No. C259

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
05879	BTEX	SW-846 8021B	1	09/21/2005 13:24	Martha L Seidel	1
08274	TPH by NWTPH-Gx waters	NWTPH-Gx - 8015B Mod.	1	09/21/2005 13:24	Martha L Seidel	1
05382	Volatiles by 8260 Full Scan	SW-846 8260B	1	09/20/2005 11:10	Shawn J Rice	1
08202	Volatiles 8260 full scan cont	SW-846 8260B	1	09/20/2005 11:10	Shawn J Rice	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/21/2005 13:24	Martha L Seidel	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/20/2005 11:10	Shawn J Rice	n.a.

Quality Control Summary

Client Name: ConocoPhillips c/o Shaw Env.
Reported: 09/29/05 at 08:35 AM

Group Number: 959704

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: 052630018A	Sample number(s): 4605195-4605200					51-113		
Diesel Range Organics	N.D.	0.080	mg/l	80				
Heavy Range Organics	N.D.	0.10	mg/l					
Batch number: 05264A51A	Sample number(s): 4605195-4605198, 4605201					70-130	7	30
TPH by NWTPH-Gx waters	N.D.	48.	ug/l	85	79			
Benzene	N.D.	0.5	ug/l	108	103			
Toluene	N.D.	0.5	ug/l	109	104			
Ethylbenzene	N.D.	0.5	ug/l	103	98			
Total Xylenes	N.D.	1.5	ug/l	104	100			
Batch number: 05264A51B	Sample number(s): 4605199-4605200					70-130	7	30
TPH by NWTPH-Gx waters	N.D.	48.	ug/l	85	79			
Benzene	N.D.	0.5	ug/l	108	103			
Toluene	N.D.	0.5	ug/l	109	104			
Ethylbenzene	N.D.	0.5	ug/l	103	98			
Total Xylenes	N.D.	1.5	ug/l	104	100			
Batch number: T052622AA	Sample number(s): 4605195-4605200					66-139	4	30
Chloromethane	N.D.	1.	ug/l	97	93			
Vinyl Chloride	N.D.	1.	ug/l	99	96			
Bromomethane	N.D.	1.	ug/l	83	79			
Chloroethane	N.D.	1.	ug/l	94	90			
Trichlorofluoromethane	N.D.	2.	ug/l	98	95			
1,1-Dichloroethene	N.D.	0.8	ug/l	98	94			
Methylene Chloride	N.D.	2.	ug/l	97	96			
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	98	96			
1,1-Dichloroethane	N.D.	1.	ug/l	98	97			
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	97	96			
Chloroform	N.D.	0.8	ug/l	100	96			
1,1,1-Trichloroethane	N.D.	0.8	ug/l	103	99			
Carbon Tetrachloride	N.D.	1.	ug/l	97	93			
1,2-Dichloroethane	N.D.	1.	ug/l	107	105			
Trichloroethene	N.D.	1.	ug/l	99	96			
1,2-Dichloropropane	N.D.	1.	ug/l	97	96			
Bromodichloromethane	N.D.	1.	ug/l	98	96			
1,1,2-Trichloroethane	N.D.	0.8	ug/l	98	100			
Tetrachloroethene	N.D.	0.8	ug/l	95	92			
Dibromochloromethane	N.D.	1.	ug/l	101	100			
Chlorobenzene	N.D.	0.8	ug/l	92	90			
Bromoform	N.D.	1.	ug/l	90	92			
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	91	93			
1,3-Dichlorobenzene	N.D.	1.	ug/l	90	91			
1,4-Dichlorobenzene	N.D.	1.	ug/l	89	90			

*- 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.

Quality Control Summary

Client Name: ConocoPhillips c/o Shaw Env.
Reported: 09/29/05 at 08:35 AM

Group Number: 959704

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichlorobenzene	N.D.	1.	ug/l	88	91	81-112	3	30
trans-1,3-Dichloropropene	N.D.	1.	ug/l	86	88	79-114	3	30
cis-1,3-Dichloropropene	N.D.	1.	ug/l	86	84	78-114	2	30
Freon 113	N.D.	2.	ug/l	85	83	73-140	3	30
Batch number: T052622AB Sample number(s): 4605199,4605201								
Chloromethane	N.D.	1.	ug/l	97	93	66-139	4	30
Vinyl Chloride	N.D.	1.	ug/l	99	96	71-126	3	30
Bromomethane	N.D.	1.	ug/l	83	79	62-131	4	30
Chloroethane	N.D.	1.	ug/l	94	90	67-127	4	30
Trichlorofluoromethane	N.D.	2.	ug/l	98	95	70-148	4	30
1,1-Dichloroethene	N.D.	0.8	ug/l	98	94	79-130	4	30
Methylene Chloride	N.D.	2.	ug/l	97	96	85-120	2	30
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	98	96	83-117	2	30
1,1-Dichloroethane	N.D.	1.	ug/l	98	97	83-127	1	30
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	97	96	84-117	2	30
Chloroform	N.D.	0.8	ug/l	100	96	86-124	5	30
1,1,1-Trichloroethane	N.D.	0.8	ug/l	103	99	83-127	3	30
Carbon Tetrachloride	N.D.	1.	ug/l	97	93	77-130	5	30
1,2-Dichloroethane	N.D.	1.	ug/l	107	105	77-132	2	30
Trichloroethene	N.D.	1.	ug/l	99	96	87-117	3	30
1,2-Dichloropropane	N.D.	1.	ug/l	97	96	80-117	1	30
Bromodichloromethane	N.D.	1.	ug/l	98	96	83-121	2	30
1,1,2-Trichloroethane	N.D.	0.8	ug/l	98	100	86-113	2	30
Tetrachloroethene	N.D.	0.8	ug/l	95	92	74-125	2	30
Dibromochloromethane	N.D.	1.	ug/l	101	100	78-119	1	30
Chlorobenzene	N.D.	0.8	ug/l	92	90	85-115	2	30
Bromoform	N.D.	1.	ug/l	90	92	69-118	2	30
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	91	93	72-119	3	30
1,3-Dichlorobenzene	N.D.	1.	ug/l	90	91	81-114	1	30
1,4-Dichlorobenzene	N.D.	1.	ug/l	89	90	84-116	1	30
1,2-Dichlorobenzene	N.D.	1.	ug/l	88	91	81-112	3	30
trans-1,3-Dichloropropene	N.D.	1.	ug/l	86	88	79-114	3	30
cis-1,3-Dichloropropene	N.D.	1.	ug/l	86	84	78-114	2	30
Freon 113	N.D.	2.	ug/l	85	83	73-140	3	30

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 052630018A Sample number(s): 4605195-4605200									
Diesel Range Organics						N.D.	N.D.	0 (1)	20
Heavy Range Organics						N.D.	N.D.	0 (1)	20
Batch number: 05264A51A Sample number(s): 4605195-4605198,4605201									
TPH by NWTPH-Gx waters	87		63-154						
Benzene	113		78-131						
Toluene	111		78-129						
Ethylbenzene	108		75-133						
Total Xylenes	108		80-134						
Batch number: 05264A51B Sample number(s): 4605199-4605200									

*- 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.

Quality Control Summary

Client Name: ConocoPhillips c/o Shaw Env.
Reported: 09/29/05 at 08:35 AM

Group Number: 959704

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
TPH by NWTPH-Gx waters	87		63-154						
Benzene	113		78-131						
Toluene	111		78-129						
Ethylbenzene	108		75-133						
Total Xylenes	108		80-134						

Batch number: T052622AA	Sample number(s): 4605195-4605200								
Chloromethane	102		69-155						
Vinyl Chloride	107		81-150						
Bromomethane	87		59-143						
Chloroethane	100		63-142						
Trichlorofluoromethane	114		77-177						
1,1-Dichloroethene	104		87-145						
Methylene Chloride	96		79-133						
trans-1,2-Dichloroethene	99		82-133						
1,1-Dichloroethane	100		85-135						
cis-1,2-Dichloroethene	99		83-126						
Chloroform	101		82-131						
1,1,1-Trichloroethane	109		81-142						
Carbon Tetrachloride	105		79-155						
1,2-Dichloroethane	108		70-143						
Trichloroethene	102		83-136						
1,2-Dichloropropane	100		83-129						
Bromodichloromethane	101		80-129						
1,1,2-Trichloroethane	100		77-125						
Tetrachloroethene	96		78-133						
Dibromochloromethane	100		82-119						
Chlorobenzene	93		83-120						
Bromoform	87		64-119						
1,1,2,2-Tetrachloroethane	93		69-128						
1,3-Dichlorobenzene	90		79-123						
1,4-Dichlorobenzene	88		81-122						
1,2-Dichlorobenzene	87		82-117						
trans-1,3-Dichloropropene	86		77-123						
cis-1,3-Dichloropropene	86		80-126						
Freon 113	101		73-166						

Batch number: T052622AB	Sample number(s): 4605199,4605201								
Chloromethane	102		69-155						
Vinyl Chloride	107		81-150						
Bromomethane	87		59-143						
Chloroethane	100		63-142						
Trichlorofluoromethane	114		77-177						
1,1-Dichloroethene	104		87-145						
Methylene Chloride	96		79-133						
trans-1,2-Dichloroethene	99		82-133						
1,1-Dichloroethane	100		85-135						
cis-1,2-Dichloroethene	99		83-126						
Chloroform	101		82-131						
1,1,1-Trichloroethane	109		81-142						
Carbon Tetrachloride	105		79-155						
1,2-Dichloroethane	108		70-143						
Trichloroethene	102		83-136						
1,2-Dichloropropane	100		83-129						
Bromodichloromethane	101		80-129						

*- 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.

Quality Control Summary

Client Name: ConocoPhillips c/o Shaw Env.
Reported: 09/29/05 at 08:35 AM

Group Number: 959704

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,1,2-Trichloroethane	100		77-125						
Tetrachloroethene	96		78-133						
Dibromochloromethane	100		82-119						
Chlorobenzene	93		83-120						
Bromoform	87		64-119						
1,1,2,2-Tetrachloroethane	93		69-128						
1,3-Dichlorobenzene	90		79-123						
1,4-Dichlorobenzene	88		81-122						
1,2-Dichlorobenzene	87		82-117						
trans-1,3-Dichloropropene	86		77-123						
cis-1,3-Dichloropropene	86		80-126						
Freon 113	101		73-166						

Surrogate Quality Control

Analysis Name: TPH by NWTPH-Dx(water) w/SiGel
Batch number: 052630018A
Orthoterphenyl

4605195	101
4605196	95
4605197	103
4605198	104
4605199	100
4605200	108
Blank	95
DUP	93
LCS	111

Limits: 50-150

Analysis Name: BTEX

Batch number: 05264A51A

Trifluorotoluene-P

Trifluorotoluene-F

4605195	99	91
4605196	100	93
4605197	102	92
4605198	96	87
4605201	101	91
Blank	100	93
LCS	102	93
LCSD	101	91
MS	102	86

Limits: 69-129

63-135

Analysis Name: BTEX

Batch number: 05264A51B

Trifluorotoluene-P

Trifluorotoluene-F

4605199	113	94
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*- 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.

Quality Control Summary

Client Name: ConocoPhillips c/o Shaw Env.
Reported: 09/29/05 at 08:35 AM

Group Number: 959704

Surrogate Quality Control

4605200	104	93
Blank	100	92
LCS	102	93
LCSD	101	91
MS	102	86

Limits: 69-129 63-135

Analysis Name: EPA SW846/8260 (water)
Batch number: T052622AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4605195	97	91	97	104
4605196	101	92	95	104
4605197	102	92	94	104
4605198	101	91	94	103
4605199	100	89	95	105
4605200	101	91	94	102
Blank	95	93	98	105
LCS	95	92	100	106
LCSD	94	89	101	106
MS	95	91	99	106

Limits: 80-116 77-113 80-113 78-113

Analysis Name: EPA SW846/8260 (water)
Batch number: T052622AB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4605201	99	90	95	104
Blank	100	91	96	105
LCS	95	92	100	106
LCSD	94	89	101	106
MS	95	91	99	106

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.

 Lancaster Laboratories
Where quality is a science.

Group# 959704

For Lancaster Laboratories use only

Acct. #: 11517

Sample #: 4609193-20

SCR#:

220265
1205784

[illegible]

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
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value - The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	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.

Measurement uncertainty values, as applicable, are available upon request.

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

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

SECOR MONITORING WELL PURGING AND SAMPLING PROCEDURES

Purging Procedures

- A. Static water levels were obtained by slowly lowering an electronic water level indicator into each respective well until the instrument indicated that the groundwater surface had been encountered. The measurement was made from a location permanently marked on the top of each respective casing to within the nearest 0.01 foot. If liquid phase hydrocarbons were present in any of the monitoring wells, the thickness of the liquid hydrocarbon layer was measured using a Marine Moisture Control interface probe, and then recorded. Each water level measurement was repeated at least once to verify the accuracy of the initial measurement. Prior to collecting groundwater samples, each monitoring well was purged using a submersible pump or a disposable bailer while noting parameters of odor, turbidity, and color.
- 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 deionized water rinse.
- D. A minimum of three well volumes will be removed using a submersible pump or a new, disposable, polyethylene bailer. If the well goes dry, the procedure listed in step E2 (below) should be followed.
- E. Note clarity, color, turbidity, and odor of purge water, and measure depth to groundwater.
- F. 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 dedicated or new 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.

SECOR

DAILY FIELD LOG

Page: 1 of 1
Date:

Client: ConocoPhillips	Site No: <u>5028</u>	Project No: <u>01CP 105028-08</u>
Scope of Work: <u>x</u> Quarter Monitoring/Sampling W/O #: <u>13445 EC 008</u>		
Describe Daily Activities:		
Gauged <u>7</u> monitoring wells. Purged <u>6</u> monitoring wells. Sampled <u>6</u> monitoring wells.	Number of drums left on site: <u>(1) ~ 20 gallons</u>	
Field Notes:		
1325 - MO onsite TO SAMPLE GW. Reviewed HASP AND SETUP. 1405 - Purged AND SAMPLED MW-2A 1431 - Purged AND SAMPLED MW-3 1453 - Purged AND SAMPLED MW-8 1530 - Purged AND SAMPLED MW-6. 1557 - Purged AND SAMPLED MW-4 1620 - Purged AND SAMPLED MW-7 1630 - Began TRANSFERRING purged water TO drum LEFT onsite. 1640 - gauged MW-1. 17:10 - MO OFFSITE.		
Arrived on Site: <u>1325</u>	Departed Site: <u>17:10</u>	
Decontamination Procedures: <u>3-Stage (Alconox Wash, Tap Water Rinse, & Distilled Water Rinse)</u>		
Daily Health and Safety Log Completed?:	Utility Locations Checked?:	
Important Conversations:		
Important Changes in Scope of Work:		
Weather Conditions: <u>Cloudy</u>	Subcontractors On Site:	
SECOR Personnel On Site:		
Signed: <u>[Signature]</u>	Date: <u>9-16-08</u>	