

Remedial System Operational Logs

Equipment Maintenance Report

ConocoPhillips Contact: Mr. Tim Johnson

Date: 12/18/03

Consultant & Contact: Landau Associates - Martin Powers

Time: 11:00 AM

Contractor & Contact: H2 Oil Recovery Equipment, Inc. - Scott Wakefield

Weather: 40's & Sunny

1.0 System Description: Site #3485, 2423 Lind Ave, Renton WA

H2-250G Gas Fired Thermal Oxidizer with catalyst plate and DR505 2 hp combustion blower, Sutorbilt 4MP SVE blower with a 10 hp motor (230v, 1 ph, 1725 rpm), 55 gal 3" moisture separator with a Goulds 1/2 hp (230 vac, 1ph) moisture separator pump, all mounted on a trailer; Campbell-Hausfeld (Mod #C1071080VMS, Ser # 020393L 999231) 7.5 hp air compressor (230v, 3480 rpm) and (6) Clean Environment AP3 down well pneumatic pumps

SVE belts - (1) 5VX630

Compressor V-belt - (2) B66

(attach schematic including manufacturer and date of purchase)

3.0 Routine Maintenance Required and Performed:

Description	Interval
Observe complete system operation. Change oil in SVE blower. Check filters,	Monthly
clean or replace, if needed. Change air compressor oil and drain condensation.	
Check belt tension, adjust if needed, and record belt deflection. Record amps	
on blowers, pump and compressor. Calibrate CGM.	

4.0 Equipment Readings and Measurements:

	Date
	12/18/2003
SVE blower (4MP) amps - 34.0/33.8 @ 22"wc	
MS pump (Goulds) amps - 2.4/2.5	Temp controller - 550
Air compressor amps - 36/36 @ 110 psi	Burner temp - 545
Fresh air blower amps - 8.1/7.9	Cat temp - 541
PID - 0 ppm	% LEL - 0%
T.S. blower amps - 4.3/4.0/4.5 @ 10" wc	cfm - 270 SVE
Aeration blower amps - 6.1/6.1	hrs - 26837.8
OWS thickness - 1/2" product	Stripper Effluent Water Meter - 30110 gal
Product tank volume - 42" liquid	
Stripper effluent - 2.1/2.3 @ 14 gpm/ stripper influent - 1.7/1.9/1.9	

5.0 Other Repairs Performed, parts needed, etc.:

Landau has modified system process by bypassing OWS. Well pumps discharge direct to aeration tank. H2 recommended replumbing OWS back in line to prevent accumulation of free product in aeration tank. This action would prevent free product from entering air stripper and oxidizer.

6.0 Equipment Status and Reasons for Downtime:

System operating upon arrival and departure.

Individual Completing this form, including company

Scott Wakefield - H2 Oil Recovery Equipment, Inc.

Catox Conversion

ConocoPhillips

Equipment Maintenance ReportConocoPhillips Contact: Mr. Tim JohnsonDate: 11/18/03Consultant & Contact: Landau Associates - Martin PowersTime: 5:00 PMContractor & Contact: H2 Oil Recovery Equipment, Inc. - Scott WakefieldWeather: 50's & Overcast**1.0 System Description:** Site #3485, 2423 Lind Ave, Renton WA

H2-250G Gas Fired Thermal Oxidizer with catalyst plate and DR505 2 hp combustion blower, Sutorbilt 4MP SVE blower with a 10 hp motor (230v, 1 ph, 1725 rpm), 55 gal 3" moisture separator with a Goulds 1/2 hp (230 vac, 1ph) moisture separator pump, all mounted on a trailer; Campbell-Hausfeld (Mod #C1071080VMS, Ser # 020393L 999231) 7.5 hp air compressor (230v, 3480 rpm) and (6) Clean Environment AP3 down well pneumatic pumps

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3.0 Routine Maintenance Required and Performed:

Description	Interval
Observe complete system operation. Change oil in SVE blower. Check filters,	Monthly
clean or replace, if needed. Change air compressor oil and drain condensation.	
Check belt tension, adjust if needed, and record belt deflection. Record amps	
on blowers, pump and compressor. Calibrate CGM.	

4.0 Equipment Readings and Measurements:

	Date
	11/18/03
SVE blower (4MP) amps - 37.8/37.3	
MS pump (Goulds) amps - 2.5/2.5	Temp controller - 553
Air compressor amps - n/a	Burner temp - 549
Fresh air blower amps - 6.9/7.4	Cat temp - 573
PID - 150 ppm	% LEL - 2%
T.S. blower amps - 3.4/3.5/3.5 @ 6" wc	cfm - 280 SVE
Aeration blower amps - 5.5/5.4	hrs - 26458.7
OWS thickness - 2" product	Stripper Effluent Water Meter - 11710 gal
Product tank volume - 18.25"	Pre cat - 5" backpressure
Stripper effluent - 2.0/2.0 @ 14 gpm/ stripper influent - off for repair	

5.0 Other Repairs Performed, parts needed, etc.:

Changed thermal oxidizer over to catalyst mode, tested, and verified interlocks and program changes.

Water treatment off. DW Close is replacing stripper influent pump that was formerly a gear pump.

Tested stripper effluent pump. 100% open = 14+ gpm.

6.0 Equipment Status and Reasons for Downtime:

System operating upon arrival and departure.

Individual Completing this form, including company

Scott Wakefield - H2 Oil Recovery Equipment, Inc.

Equipment Maintenance Report

ConocoPhillips Contact: Mr. Tim Johnson

Date: 10/22/03

Consultant & Contact: Landau Associates - Martin Powers

Time: 7:00 PM

Contractor & Contact: H2 Oil Recovery Equipment, Inc. - Scott Wakefield

Weather: 60's & Heavy Rain

1.0 System Description: Site #3485, 2423 Lind Ave, Renton WA

H2-250G Gas Fired Thermal Oxidizer with catalyst plate and DR505 2 hp combustion blower, Sutorbilt 4MP SVE blower with a 10 hp motor (230v, 1 ph, 1725 rpm), 55 gal 3" moisture separator with a Goulds 1/2 hp (230 vac, 1ph) moisture separator pump, all mounted on a trailer; Campbell-Hausfeld (Mod #C1071080VMS, Ser # 020393L 999231) 7.5 hp air compressor (230v, 3480 rpm) and (6) Clean Environment AP3 down well pneumatic pumps

SVE belts - (1) 5VX630

Compressor V-belt - (2) B66

(attach schematic including manufacturer and date of purchase)

3.0 Routine Maintenance Required and Performed:

Description	Interval
Observe complete system operation. Change oil in SVE blower. Check filters, clean or replace, if needed. Change air compressor oil and drain condensation.	Monthly
Check belt tension, adjust if needed, and record belt deflection. Record amps on blowers, pump and compressor. Calibrate CGM.	

4.0 Equipment Readings and Measurements:

	Date
	10/22/2003
SVE blower (4MP) amps - 36.8/34.4	
MS pump (Goulds) amps - 2.0/2.5	Temp controller - 1400
Air compressor amps - 30.0/30.0 @ 75 psi	Burner temp - 1400
Fresh air blower amps - 6.3/6.7	Cat temp - 1400
PID - n/a	% LEL - 5.2%
T.S. blower amps - 3.4/3.5/3.8 @ 15" wc	cfm -
Aeration blower amps - 5.3/5.2	hrs - 0015
OWS thickness - 3.5" product	Stripper Effluent Water Meter - 4410 gal
Product tank volume - FULL to H/L (Landau to have pumped)	
Stripper effluent - 2.0/2.1 @ 14 gpm/ stripper influent - 3.3/3.2/3.3 @ 9 gpm	

5.0 Other Repairs Performed, parts needed, etc.:

Water treatment system had failed on a h/l shutdown event. The 275 gal. Batch had continued to leak out the top of the tank fitting since the pump's air solenoid was not alarmed. Liquid release was process water that was contained within the berm. Only a slight sheen visible on water surface. Landau placed absorbant diapers down as a precaution. Cause for backup in process water was due to motor starter thermal trip on 4500R influent. Additionally, high level intrinsic module in panel had failed.

The 8000 gal. air sparge tank still has separated hydrocarbon thickness on top of the water level. H2 recommends that all product be removed and cleaned from this tank to prevent the possibility of free product entering the stripper. [A dangerous situation will be present if product/vapor is allowed into inlet of the oxidizer.]

6.0 Equipment Status and Reasons for Downtime:

As with past normal maintenance stops, all high level and conductance pump controls were verified for correct operation. System operating upon departure.

Individual Completing this form, including company

Scott Wakefield - H2 Oil Recovery Equipment, Inc.

Equipment Maintenance Report

ConocoPhillips Contact: Mr. Tim Johnson

Date: 09/25/03

Consultant & Contact: Landau Associates - Martin Powers

Time: 12:45 PM

Contractor & Contact: H2 Oil Recovery Equipment, Inc. - Scott Wakefield

Weather: 70's & Sunny

1.0 System Description: Site #3485, 2423 Lind Ave, Renton WA

H2-250G Gas Fired Thermal Oxidizer with catalyst plate and DR505 2 hp combustion blower, Sutorbilt 4MP SVE blower with a 10 hp motor (230v, 1 ph, 1725 rpm), 55 gal 3" moisture separator with a Goulds 1/2 hp (230 vac, 1ph) moisture separator pump, all mounted on a trailer; Campbell-Hausfeld (Mod #C1071080VMS, Ser # 020393L 999231) 7.5 hp air compressor (230v, 3480 rpm) and (6) Clean Environment AP3 down well pneumatic pumps

SVE belts - (1) 5VX630

Compressor V-belt - (2) B66

(attach schematic including manufacturer and date of purchase)

3.0 Routine Maintenance Required and Performed:

Description	Interval
Observe complete system operation. Change oil in SVE blower. Check filters,	Monthly
clean or replace, if needed. Change air compressor oil and drain condensation.	
Check belt tension, adjust if needed, and record belt deflection. Record amps	
on blowers, pump and compressor. Calibrate CGM.	

4.0 Equipment Readings and Measurements:

	Date
	9/25/2003
SVE blower (4MP) amps - n/a	
MS pump (Goulds) amps - n/a	Temp controller -
Air compressor amps - n/a	Burner temp -
Fresh air blower amps - n/a	Cat temp -
PID - n/a	% LEL -
T.S. blower amps - n/a	cfm -
Aeration blower amps - n/a	hrs - 25570.5
OWS thickness - 1.5"	
Product tank volume - 1/4" (recently pumped out)	
Stripper effluent - 2850 gal	

5.0 Other Repairs Performed, parts needed, etc.:

Air sparge tank has free product in it. Landau was notified. H2 recommends that sparge tank be pumped out. If free product was allowed to be pumped into tray stripper, a dangerous situation may result.

6.0 Equipment Status and Reasons for Downtime:

System off upon arrival. Electricians are in the process of re-wiring system after secondary containment was placed beneath stripper.

Individual Completing this form, including company

Scott Wakefield - H2 Oil Recovery Equipment, Inc.

Equipment Maintenance Report

ConocoPhillips Contact: Mr. Tim Johnson

Date: 08/19/03

Consultant & Contact: Landau Associates - Martin Powers

Time: 7:45 AM

Contractor & Contact: H2 Oil Recovery Equipment, Inc. - Scott Wakefield

Weather: 60's & Partly Cloudy

1.0 System Description: Site #3485, 2423 Lind Ave, Renton WA

H2-250G Gas Fired Thermal Oxidizer with catalyst plate and DR505 2 hp combustion blower, Sutorbilt 4MP SVE blower with a 10 hp motor (230v, 1 ph, 1725 rpm), 55 gal 3" moisture separator with a Goulds 1/2 hp (230 vac, 1ph) moisture separator pump, all mounted on a trailer; Campbell-Hausfeld (Mod #C1071080VMS, Ser # 020393L 999231) 7.5 hp air compressor (230v, 3480 rpm) and (6) Clean Environment AP3 down well pneumatic pumps

SVE belts - (1) 5VX630

Compressor V-belt - (2) B66

(attach schematic including manufacturer and date of purchase)

3.0 Routine Maintenance Required and Performed:

Description	Interval
Observe complete system operation. Change oil in SVE blower. Check filters, clean or replace, if needed. Change air compressor oil and drain condensation.	Monthly
Check belt tension, adjust if needed, and record belt deflection. Record amps on blowers, pump and compressor. Calibrate CGM.	

4.0 Equipment Readings and Measurements:

	Date
	8/19/2003
SVE blower (4MP) amps - 31.1/31.7 @ 50" wc	
MS pump (Goulds) amps - n/a	Temp controller - 1395
Air compressor amps - 31.5/30.9 @ 80 psi	Burner temp - 1436
Fresh air blower amps - 5.8/6.5	Cat temp - 1433
PID - 1734 ppm @ f.a.	% LEL - 18.4
T.S. blower amps - 3.1/3.6/3.1	cfm - 270
Aeration blower amps - 5.1/5.0	hrs - 24824.4

5.0 Other Repairs Performed, parts needed, etc.:

Plastic batch tank (extra) needs to be removed as requested by Conoco. Changed air filter element to fresh air blower, snaked discharge pipe of OWS, put labels on electrical control panel, adjusted weirs up and over 1" on OWS, lowered product level in OWS 23" by adding water to OWS, and re-adjusted product weir. Product tank is 3/4 full. Re-adjusted product weir to middle of discharge coupling.

6.0 Equipment Status and Reasons for Downtime:

System operating upon arrival and departure.

Individual Completing this form, including company

Brian Moody - H2 Oil Recovery Equipment, Inc.

Equipment Maintenance ReportConocoPhillips Contact: Mr. Tim JohnsonDate: 07/22/03Consultant & Contact: Landau Associates - Martin PowersTime: 9:30 AMContractor & Contact: H2 Oil Recovery Equipment, Inc. - Scott WakefieldWeather: 60's & Sunny**1.0 System Description:** Site #3485, 2423 Lind Ave, Renton WA

H2-250G Gas Fired Thermal Oxidizer with catalyst plate and DR505 2 hp combustion blower, Sutorbilt 4MP SVE blower with a 10 hp motor (230v, 1 ph, 1725 rpm), 55 gal 3" moisture separator with a Goulds 1/2 hp (230 vac, 1ph) moisture separator pump, all mounted on a trailer; Campbell-Hausfeld (Mod #C1071080VMS, Ser # 020393L 999231) 7.5 hp air compressor (230v, 3480 rpm) and (6) Clean Environment AP3 down well pneumatic pumps

SVE belts - (1) 5VX630

Compressor V-belt - (2) B66

(attach schematic including manufacturer and date of purchase)

3.0 Routine Maintenance Required and Performed:

Description	Interval
Observe complete system operation. Change oil in SVE blower. Check filters, clean or replace, if needed. Change air compressor oil and drain condensation.	Monthly
Check belt tension, adjust if needed, and record belt deflection. Record amps on blowers, pump and compressor. Calibrate CGM.	

4.0 Equipment Readings and Measurements:

	Date
	7/22/2003
SVE blower (4MP) amps - 31.1/31.3 @ 30" wc	
MS pump (Goulds) amps - n/a	Temp controller - 1401
Air compressor amps - 31.8/30.5 @ 80 psi	Burner temp - 1406
Fresh air blower amps - 6.0/5.9	Cat temp - 1411
PID - 1103 ppm @ f.a.	% LEL - 24.1
T.S. blower amps - 3.2/3.5/3.4	cfm - 270
Aeration blower amps - 5.2/5.1	hrs - 24273

5.0 Other Repairs Performed, parts needed, etc.:**6.0 Equipment Status and Reasons for Downtime:**

System down upon arrival due high level. Serviced and restarted. System operating upon departure.

Individual Completing this form, including company

Brian Moody - H2 Oil Recovery Equipment, Inc.

Equipment Maintenance ReportConocoPhillips Contact: Mr. Tim JohnsonDate: 07/22/03Consultant & Contact: Landau Associates - Martin PowersTime: 9:30 AMContractor & Contact: H2 Oil Recovery Equipment, Inc. - Scott WakefieldWeather: 60's & Sunny**1.0 System Description:** Site #3485, 2423 Lind Ave, Renton WA

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4.0 Equipment Readings and Measurements:

	Date
	7/22/2003
SVE blower (4MP) amps - 31.1/31.3 @ 30" wc	
MS pump (Goulds) amps - n/a	Temp controller - 1401
Air compressor amps - 31.8/30.5 @ 80 psi	Burner temp - 1406
Fresh air blower amps - 6.0/5.9	Cat temp - 1411
PID - 1103 ppm @ f.a.	% LEL - 24.1
T.S. blower amps - 3.2/3.5/3.4	cfm - 270
Aeration blower amps - 5.2/5.1	hrs - 24273

5.0 Other Repairs Performed, parts needed, etc.:**6.0 Equipment Status and Reasons for Downtime:**

System down upon arrival due high level. Serviced and restarted. System operating upon departure.

Individual Completing this form, including company**Brian Moody - H2 Oil Recovery Equipment, Inc.**

ExxonMobil Groundwater Data

Exxon-Mobil Renton
Water Level Data

Date: 4/2/2003

Measured by: A. Speransky

	Depth to Product (ft)	Depth to Water (ft)	Comments
Wells			
B-1	detected	5.56	FP detected
B-2	-	6.71	
B-3	6.84	9.01	2.17 ft of FP
B-4	5.91	5.97	0.06 ft of FP
B-5	-	5.91	
B-6	-	NM	soakecase still in the well
W-1	-	7.23	
W-2	-	NM	truck parked on the well head
W-3	-	5.75	strong odor
W-4	-	6.86	
D-1	Not measured		
D-4	-	5.09	
D-5	-	NM	
D-6	-	5.58	
D-7	-	4.85	FP detected?
HA-1	-	5.31	
HA-2	-	6.41	
HA-3	-	8.46	
HA-4	-	7.61	
HA-5	-	5.1	
HA-6	-	4.91	
HA-7	-	4.91	
HA-8	-	5.23	
HA-9	-	7.72	
HA-10	-	8.51	
HA-11	-	8.58	
HA-12	-	5.47	
HA-13	-	6.44	
HA-14	-	6.79	

Exxon-Mobil Renton

Water Level Data

Date: 5/27/2003

Measured by: S. Davis

	Depth to Product (ft)	Depth to Water (ft)	Comments
Wells			
B-1	--	6.81	
B-2	--	7.75	
B-3	7.87	11.42	
B-4	--	7.10	
B-5	--	6.82	
B-6	--	7.08	Soakease sorbent sock in well
W-1	--	7.91	
W-2	--	7.32	
W-3	--		
W-4	--		
D-4	--	--	
D-5	--	--	
D-6	--	6.72	
D-7	--	6.36	
HA-1	--	6.45	
HA-2	--	7.4	
HA-3	--	9.3	
HA-4	--	8.64	
HA-5	--	6.83	
HA-6	--	6.93	
HA-7	--	7.08	
HA-8	--	7.30	
HA-9	--	8.05	sheen
HA-10	--	9.31	
HA-11	--	8.33	
HA-12	--	7.84	
HA-13	--	8.89	
HA-14	--	9.48	

Exxon-Mobil Renton
Water Level Data

Date: 6/24/2003
 Measured by: A. Speransky

	Depth to Product (ft)	Depth to Water (ft)	Product Thickness	Comments
Wells				
B-1	-	7.41		
B-2	-	7.61		
B-3	7.61	-		
B-4	-	7.06		
B-5	-	6.71		
B-6	-	6.85		
W-1	-	7.71		
W-2	-	7.11		
W-3	-	6.26		
W-4	-	7.68		
D-1	Not measured			
D-4	-	6		dry
D-5	-	NM		
D-6	-	6.37		
D-7	-	6.59		
HA-1	-	5.8		
HA-2	-	7.48		
HA-3	-	9.64		
HA-4	-	8.59		
HA-5	-	7.13		
HA-6	-	7.23		
HA-7	-	7.29		
HA-8	-	7.63		
HA-9	-	8.26		
HA-10	-	9.34		
HA-11	-	8.60		
HA-12	-	8.13		
HA-13	-	9.15		
HA-14	-	9.88		

Exxon-Mobil Renton
Water Level Data

Date: 7/17/2003
Measured by: S. Davis

	Depth to Product (ft)	Depth to Water (ft)	Product Thickness	Comments
Wells				
B-1	--	7.75	--	
B-2	--	8.86	--	
B-3	9.08	11.58	2.50	odor
B-4	--	8.38	--	odor
B-5	--	8.51	--	
B-6	--	8.45	--	odor
W-1	--	8.63	--	
W-2	--	8.58	--	
W-3	6.82	6.83	0.01	odor
W-4	--	8.16	--	
D-4	--	--	--	
D-5	--	--	--	
D-6	--	7.50	--	
D-7	--	7.24	--	
HA-1	--	5.75	--	
HA-2	--	7.84	--	odor
HA-3	--	9.60	--	
HA-4	--	9.16	--	
HA-5	--	7.67	--	
HA-6	--	7.91	--	odor
HA-7	--	8.27	--	
HA-8	--	8.40	--	
HA-9	--	8.36	--	
HA-10	--	9.65	--	
HA-11	--	8.86	--	
HA-12	--	8.91	--	
HA-13	--	9.45	--	
HA-14	--	10.12	--	

Exxon-Mobil Renton
Water Level Data

Date: 8/29/2003
Measured by: A. Speransky

	Depth to Product (ft)	Depth to Water (ft)	Product Thickness	Comments
Wells				
B-1	--	8.22	--	
B-2	--	9.46	--	
B-3	10.42	11.60	1.18	odor
B-4	--	8.98	--	odor
B-5	--	8.89	--	
B-6	--	NM	--	
W-1	--	8.64	--	
W-2	--	9.11	--	
W-3	6.97	7.00	0.03	odor
W-4	--	dry	--	
D-4	--	dry	--	
D-5	--	--	--	
D-6	--	7.18	--	
D-7	--	7.91	--	
HA-1	--	5.43	--	
HA-2	8.27	8.28	0.01	odor
HA-3	--	9.66	--	
HA-4	--	9.4	--	
HA-5	--	NM	--	
HA-6	--	8.68	--	
HA-7	--	9.92	--	
HA-8	--	9.45	--	
HA-9	--	8.52	--	
HA-10	--	9.75	--	
HA-11	--	9.24	--	
HA-12	--	9.75	--	
HA-13	--	NM	--	
HA-14	--	10.63	--	

Note: Not Measured

Exxon-Mobil Renton
Water Level Data

Date: 9/24/2003
 Measured by: S. Davis

	Depth to Product (ft)	Depth to Water (ft)	Product Thickness	Comments
Wells				
B-1	--	7.91	--	odor
B-2	--	9.65	--	odor
B-3	10.77	11.60	0.83	
B-4	9.11	9.12	0.01	
B-5	--	9.01	--	odor
B-6	8.82	9.84	1.02	
W-1	--	8.63	--	
W-2	--	9.27	--	
W-3	6.67	6.68	0.01	
W-4	--	--	--	No water detected
D-4	--	--	--	
D-5	--	--	--	
D-6	--	8.12	--	
D-7	--	8.23	--	
HA-1	--	7.03	--	
HA-2	8.31	8.36	0.05	
HA-3	--	9.65	--	
HA-4	--	9.12	--	
HA-5	--	8.75	--	
HA-6	--	8.89	--	
HA-7	--	9.21	--	
HA-8	8.95	9.72	0.77	
HA-9	--	8.42	--	
HA-10	--	9.74	--	
HA-11	--	9.32	--	
HA-12	--	10.00	--	
HA-13	--	10.47	--	
HA-14	--	10.79	--	

Exxon-Mobil Renton

Water Level Data

Date: 10/22/2003

Measured by: S. Davis

	Depth to Product	Depth to Water	Product Thickness	Comments
Wells				
B-1	--	7.55		HC odor
B-2	--	9.57		
B-3	9.59	--	2.01	Depth to bottom = 11.6 (no water)
B-4	--	8.91		
B-5	--	8.86		Sheen on solonist probe
B-6	8.79	9.85	1.06	
W-1	--	8.64		
W-2	--	9.24		HC odor
W-3	--	5.73		HC odor
W-4	--	7.36		
D-4	--	--		
D-5	--	--		
D-6	--	7.69		
D-7	--	7.38		
HA-1	--	4.54		
HA-2	8.07	8.15	0.08	
HA-3	--	9.56		
HA-4	--	7.24		
HA-5	--	7.27		
HA-6	--	8.35		
HA-7	--	8.71		
HA-8	8.07	8.48	0.41	
HA-9	--	7.95		
HA-10	--	6.87		
HA-11	--	7.53		
HA-12	--	9.08		
HA-13	--	5.04		
HA-14	--	6.99		

Exxon-Mobil Renton

Water Level Data

Date: 11/25/2003

Measured by: S. Davis

	Depth to Product	Depth to Water	Product Thickness	Comments
Wells				
B-1	--	7.29	--	
B-2	--	8.01	--	
B-3	8.39	10.04	1.65	
B-4	7.12	7.29	0.17	
B-5	--	7.57	--	
B-6	--	8.08	--	HC odor
W-1	--	8.63	--	
W-2	--	8.16	--	HC odor
W-3	--	5.77	--	
W-4	--	7.59	--	
D-4	--	--	--	
D-5	--	--	--	
D-6	--	7.42	--	
D-7	--	4.95	--	
HA-1	--	4.83	--	
HA-2	--	7.83	--	
HA-3	--	9.42	--	
HA-4	--	6.15	--	
HA-5	--	5.20	--	
HA-6	--	5.67	--	
HA-7	--	5.95	--	
HA-8	5.08	5.62	0.54	
HA-9	--	7.90	--	
HA-10	--	7.77	--	
HA-11	--	8.10	--	
HA-12	--	6.24	--	
HA-13	--	6.26	--	
HA-14	--	6.57	--	

Exxon-Mobil Renton

Water Level Data

Date: 12/30/2003

Measured by: S. Davis

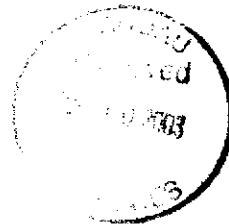
	Depth to Product	Depth to Water	Product Thickness	Comments
Wells				
B-1	--	5.80	--	
B-2	--	7.12	--	
B-3	7.70	9.00	1.30	
B-4	6.36	6.48	0.12	
B-5	--	6.47	--	
B-6	7.02	7.07	0.05	
W-1	--	7.87	--	
W-2	7.25	7.27	0.02	
W-3	--	5.23	--	
W-4	--	7.39	--	
D-4	--	--	--	No Water Reported by Solonist
D-5	--	--	--	No Water Reported by Solonist
D-6	--	6.55	--	
D-7	--	6.32	--	
HA-1	--	5.58	--	
HA-2	--	7.34	--	
HA-3	--	9.32	--	
HA-4	--	7.76	--	
HA-5	--	5.02	--	
HA-6	--	4.87	--	
HA-7	--	5.58	--	
HA-8	5.27	5.55	0.28	
HA-9	--	7.57	--	
HA-10	--	8.62	--	
HA-11	--	7.26	--	
HA-12	--	6.32	--	
HA-13	--	6.95	--	
HA-14	--	7.05	--	

APPENDIX C

Laboratory Analytical Results



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08 July 2003

Martin Powers

Landau Associates - Edmonds

Sound View Plaza, 130 2nd Ave S

Edmonds, WA/USA 98020-9129

RE: Conoco Phillips - Renton

Enclosed are the results of analyses for samples received by the laboratory on 07/07/03 17:37. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanne Garthwaite

Project Manager



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Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 706002
Project Manager: Martin Powers

Reported:
07/08/03 17:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Effluent	B3G0160-01	Water	07/07/03 14:10	07/07/03 17:37
Influent	B3G0160-02	Water	07/07/03 14:15	07/07/03 17:37

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

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Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 706002
Project Manager: Martin Powers

Reported:
07/08/03 17:02

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Effluent (B3G0160-01) Water Sampled: 07/07/03 14:10 Received: 07/07/03 17:37									
Gasoline Range Hydrocarbons	345	50.0	ug/l	1	3G08006	07/08/03	07/08/03	NWTPH-Gx/8021B	
Benzene	4.87	0.500	"	"	"	"	"	"	
Toluene	18.5	0.500	"	"	"	"	"	"	
Ethylbenzene	1.63	0.500	"	"	"	"	"	"	
Xylenes (total)	16.7	1.00	"	"	"	"	"	"	I-06
Surrogate: 4-BFB (FID)	93.8 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	91.9 %	72-127			"	"	"	"	
Influent (B3G0160-02) Water Sampled: 07/07/03 14:15 Received: 07/07/03 17:37									
Gasoline Range Hydrocarbons	331000	25000	ug/l	500	3G08006	07/08/03	07/08/03	NWTPH-Gx/8021B	
Benzene	45200	250	"	"	"	"	"	"	
Toluene	81200	500	"	1000	"	"	07/08/03	"	
Ethylbenzene	3840	250	"	500	"	"	07/08/03	"	
Xylenes (total)	21700	500	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	93.1 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	95.6 %	72-127			"	"	"	"	

North Creek Analytical - Bothell

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Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

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Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 706002
Project Manager: Martin Powers

Reported:
07/08/03 17:02

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)

North Creek Analytical - Bothell

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Effluent (B3G0160-01) Water Sampled: 07/07/03 14:10 Received: 07/07/03 17:37									
Diesel Range Hydrocarbons	2.42	0.250	mg/l	1	3G08012	07/08/03	07/08/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	108 %	50-150			"	"	"	"	
Surrogate: Octacosane	112 %	50-150			"	"	"	"	
Influent (B3G0160-02) Water Sampled: 07/07/03 14:15 Received: 07/07/03 17:37									
Diesel Range Hydrocarbons	3.47	0.250	mg/l	1	3G08012	07/08/03	07/08/03	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	0.630	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	114 %	50-150			"	"	"	"	
Surrogate: Octacosane	110 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

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Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 706002
Project Manager: Martin Powers

Reported:
07/08/03 17:02

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3G08006: Prepared 07/08/03 Using EPA 5030B (P/T)

Blank (3G08006-BLK1)

Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (FID)	43.4		"	48.0		90.4	62-127			
Surrogate: 4-BFB (PID)	45.3		"	48.0		94.4	72-127			

LCS (3G08006-BS1)

Gasoline Range Hydrocarbons	465	50.0	ug/l	502		92.6	80-120			
Benzene	6.79	0.500	"	7.31		92.9	80-120			
Toluene	34.5	0.500	"	33.9		102	80-120			
Ethylbenzene	8.68	0.500	"	7.94		109	80-120			
Xylenes (total)	42.2	1.00	"	38.4		110	80-120			
Surrogate: 4-BFB (FID)	47.3		"	48.0		98.5	62-127			
Surrogate: 4-BFB (PID)	45.4		"	48.0		94.6	72-127			

LCS Dup (3G08006-BSD1)

Gasoline Range Hydrocarbons	459	50.0	ug/l	502		91.4	80-120	1.30	25	
Benzene	6.84	0.500	"	7.31		93.6	80-120	0.734	40	
Toluene	35.6	0.500	"	33.9		105	80-120	3.14	40	
Ethylbenzene	8.69	0.500	"	7.94		109	80-120	0.115	40	
Xylenes (total)	42.4	1.00	"	38.4		110	80-120	0.473	40	
Surrogate: 4-BFB (FID)	46.9		"	48.0		97.7	62-127			
Surrogate: 4-BFB (PID)	45.3		"	48.0		94.4	72-127			

North Creek Analytical - Bothell

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Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

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Environmental Laboratory Network

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Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 706002
Project Manager: Martin Powers

Reported:
07/08/03 17:02

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 3G08012: Prepared 07/08/03 Using EPA 3520C

Blank (3G08012-BLK1)

Diesel Range Hydrocarbons	ND	0.250	mg/l							
Lube Oil Range Hydrocarbons	ND	0.500	"							

Surrogate: 2-FBP	0.259		"	0.320		80.9	50-150			
Surrogate: Octacosane	0.143		"	0.160		89.4	50-150			

LCS (3G08012-BS1)

Diesel Range Hydrocarbons	1.80	0.250	mg/l	2.00		90.0	63-107			
Surrogate: 2-FBP	0.243		"	0.320		75.9	50-150			

LCS Dup (3G08012-BS1)

Diesel Range Hydrocarbons	1.81	0.250	mg/l	2.00		90.5	63-107	0.554	40	
Surrogate: 2-FBP	0.252		"	0.320		78.8	50-150			

North Creek Analytical - Bothell

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Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc.
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Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 706002
Project Manager: Martin Powers

Reported:
07/08/03 17:02

Notes and Definitions

D-08 Results in the diesel organics range are primarily due to overlap from a gasoline range product.
I-06 The analyte concentration may be artificially elevated due to coeluting compounds or components.
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

Page 6 of 6



PROJECT
FILE

No. _____

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25 July 2003

Martin Powers

Landau Associates - Edmonds

Sound View Plaza, 130 2nd Ave S

Edmonds, WA/USA 98020-9129

RE: Conoco Phillips - Renton

Enclosed are the results of analyses for samples received by the laboratory on 07/11/03 15:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanne Garthwaite

Project Manager



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Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 706002
Project Manager: Martin Powers

Reported:
07/25/03 10:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Influent	B3G0287-01	Air	07/11/03 11:30	07/11/03 15:35
Effluent	B3G0287-02	Air	07/11/03 11:45	07/11/03 15:35

North Creek Analytical - Bothell

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Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

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Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 706002
Project Manager: Martin Powers

Reported:
07/25/03 10:25

Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Influent (B3G0287-01) Air Sampled: 07/11/03 11:30 Received: 07/11/03 15:35									
Gasoline Range Hydrocarbons	8070	250	mg/m ³ Air	25	3G11016	07/13/03	07/13/03	NWTPH Modified	
Benzene	261	2.50	"	"	"	"	"	"	
Toluene	387	10.0	"	100	"	"	07/13/03	"	
Ethylbenzene	77.2	2.50	"	25	"	"	07/13/03	"	
Xylenes (total)	360	5.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	114 %	65-132			"	"	"	"	
Surrogate: 4-BFB (PID)	103 %	75-136			"	"	"	"	
Gasoline Range Hydrocarbons (v/v)	1900	59.0	ppmv	25	"	"	"	"	
Benzene (v/v)	80.5	0.770	"	"	"	"	"	"	
Toluene (v/v)	101	2.61	"	100	"	"	07/13/03	"	
Ethylbenzene (v/v)	17.5	0.568	"	25	"	"	07/13/03	"	
Xylenes, total (v/v)	81.6	1.14	"	"	"	"	"	"	
Effluent (B3G0287-02) Air Sampled: 07/11/03 11:45 Received: 07/11/03 15:35									
Gasoline Range Hydrocarbons	ND	10.0	mg/m ³ Air	1	3G11016	07/13/03	07/13/03	NWTPH Modified	
Benzene	2.08	0.100	"	"	"	"	"	"	
Toluene	0.329	0.100	"	"	"	"	"	"	
Ethylbenzene	ND	0.100	"	"	"	"	"	"	
Xylenes (total)	ND	0.200	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	80.8 %	65-132			"	"	"	"	
Surrogate: 4-BFB (PID)	105 %	75-136			"	"	"	"	
Gasoline Range Hydrocarbons (v/v)	ND	2.36	ppmv	"	"	"	"	"	
Benzene (v/v)	0.641	0.0308	"	"	"	"	"	"	
Toluene (v/v)	0.0861	0.0261	"	"	"	"	"	"	
Ethylbenzene (v/v)	ND	0.0227	"	"	"	"	"	"	
Xylenes, total (v/v)	ND	0.0454	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

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Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 706002
Project Manager: Martin Powers

Reported:
07/25/03 10:25

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX in Air by NWTPH-G and EPA 8021B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3G11016: Prepared 07/13/03 Using EPA 5030B (P/T)

Blank (3G11016-BLK1)

Gasoline Range Hydrocarbons	ND	10.0	mg/m ³ Air							
Gasoline Range Hydrocarbons (v/v)	ND	2.36	ppmv							
Benzene	ND	0.100	mg/m ³ Air							
Benzene (v/v)	ND	0.0308	ppmv							
Toluene	ND	0.100	mg/m ³ Air							
Toluene (v/v)	ND	0.0261	ppmv							
Ethylbenzene	ND	0.100	mg/m ³ Air							
Ethylbenzene (v/v)	ND	0.0227	ppmv							
Xylenes (total)	ND	0.200	mg/m ³ Air							
Xylenes, total (v/v)	ND	0.0454	ppmv							

Surrogate: 4-BFB (FID)	7.45		mg/m ³ Air	9.60		77.6	65-132			
Surrogate: 4-BFB (PID)	9.59		"	9.60		99.9	75-136			

LCS (3G11016-BS1)

Gasoline Range Hydrocarbons	56.8	10.0	mg/m ³ Air	100		56.8	50-150			
Surrogate: 4-BFB (FID)	9.33		"	9.60		97.2	65-132			

LCS (3G11016-BS2)

Benzene	1.79	0.100	mg/m ³ Air	2.00		89.5	50-150			
Toluene	1.69	0.100	"	2.00		84.5	50-150			
Ethylbenzene	1.69	0.100	"	1.96		86.2	50-150			
Xylenes (total)	5.28	0.200	"	6.00		88.0	50-150			
Surrogate: 4-BFB (PID)	10.4		"	9.60		108	75-136			

LCS Dup (3G11016-BSD1)

Gasoline Range Hydrocarbons	67.2	10.0	mg/m ³ Air	100		67.2	50-150	16.8	50	
Surrogate: 4-BFB (FID)	10.2		"	9.60		106	65-132			

North Creek Analytical - Bothell

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Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

Page 3 of 5



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907.563.9200 fax 907.563.9210

Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 706002
Project Manager: Martin Powers

Reported:
07/25/03 10:25

Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3G11016: Prepared 07/13/03 Using EPA 5030B (P/T)										
LCS Dup (3G11016-BSD2)										
Benzene	1.72	0.100	mg/m ³ Air	2.00		86.0	50-150	3.99	50	
Toluene	1.61	0.100	"	2.00		80.5	50-150	4.85	50	
Ethylbenzene	1.61	0.100	"	1.96		82.1	50-150	4.85	50	
Xylenes (total)	5.11	0.200	"	6.00		85.2	50-150	3.27	50	
Surrogate: 4-BFB (PID)	10.6		"	9.60		110	75-136			
Duplicate (3G11016-DUP1) Source: B3G0263-01										
Gasoline Range Hydrocarbons	ND	10.0	mg/m ³ Air		3.34			58.4	30	Q-05
Surrogate: 4-BFB (FID)	6.67		"	9.60		69.5	65-132			

North Creek Analytical - Bothell

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Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

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Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 706002
Project Manager: Martin Powers

Reported:
07/25/03 10:25

Notes and Definitions

Q-05 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

North Creek Analytical - Bothell

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Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc.
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907-334-9200 FAX 334-9210

CHAIN OF CUSTODY REPORT

Work Order #: **B390207**

CLIENT: <u>Landaw Associates, Inc.</u>		INVOICE TO:	
REPORT TO: <u>Martin Powers</u>		<u>Tim Johnson of</u>	
ADDRESS: <u>130 2nd Ave South</u>		<u>Conoco Phillips</u>	
PHONE: <u>(425) 778-0907 FAX:</u>		P.O. NUMBER: <u>706002</u>	
PROJECT NAME: <u>Conoco Phillips - Renton</u>		PRESERVATIVE	
PROJECT NUMBER: <u>706002</u>		REQUESTED ANALYSES	
SAMPLED BY: <u>Erik Gierking</u>			
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME		
1 Influent	7-11-03/1130	X	
2 Effluent	7-11-03/1145	X	
3			
4			
5			
6			
7			
8			
9			
10			

MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
Air	2		61
↓	↓		02

OTHER Specify: Standard

* Turnaround Requests less than standard may incur Rush Charges.

Organic & Inorganic Analyses	Petroleum Hydrocarbon Analyses
10 7 5 4 3 2 1 <1	5 4 3 2 1 <1

DATE: 7-11-03 TIME: 1535

RELEASED BY: Erik R. Gierking FIRM: CAI

PRINT NAME: Erik R. Gierking FIRM: CAI

RECEIVED BY: Tim Johnson FIRM: NCA

PRINT NAME: Tim Johnson FIRM: NCA

DATE: 7-11-03 TIME: 1535

RECEIVED BY: Tim Johnson FIRM: NCA

PRINT NAME: Tim Johnson FIRM: NCA

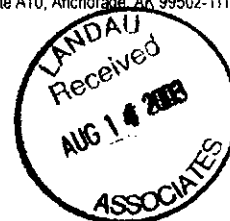
TEMP: 23.0 W/O

ADDITIONAL REMARKS:

COC REV 103



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12 August 2003

Martin Powers
Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129
RE: TOSCO Renton Terminal

Enclosed are the results of analyses for samples received by the laboratory on 08/07/03 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanne Garthwaite
Project Manager



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Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: TOSCO Renton Terminal
Project Number: 706002.012
Project Manager: Martin Powers

Reported:
08/12/03 17:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Influent	B3H0121-01	Air	08/07/03 14:30	08/07/03 16:30
Effluent	B3H0121-02	Air	08/07/03 14:45	08/07/03 16:30

North Creek Analytical - Bothell

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Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network



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Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: TOSCO Renton Terminal
Project Number: 706002.012
Project Manager: Martin Powers

Reported:
08/12/03 17:17

Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Influent (B3H0121-01) Air Sampled: 08/07/03 14:30 Received: 08/07/03 16:30

Gasoline Range Hydrocarbons	4980	250	mg/m ³ Air	25	3H08017	08/08/03	08/08/03	NWTPH Modified	
Benzene	206	2.50	"	"	"	"	"	"	
Toluene	425	2.50	"	"	"	"	"	"	
Ethylbenzene	29.1	2.50	"	"	"	"	"	"	
Xylenes (total)	138	5.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	105 %	65-132			"	"	"	"	
Surrogate: 4-BFB (PID)	102 %	75-136			"	"	"	"	
Gasoline Range Hydrocarbons (v/v)	1170	59.0	ppmv	25	"	"	"	"	
Benzene (v/v)	63.5	0.770	"	"	"	"	"	"	
Toluene (v/v)	111	0.652	"	"	"	"	"	"	
Ethylbenzene (v/v)	6.61	0.568	"	"	"	"	"	"	
Xylenes, total (v/v)	31.4	1.14	"	"	"	"	"	"	

Effluent (B3H0121-02) Air Sampled: 08/07/03 14:45 Received: 08/07/03 16:30

Gasoline Range Hydrocarbons	ND	10.0	mg/m ³ Air	1	3H08017	08/08/03	08/08/03	NWTPH Modified	
Benzene	ND	0.100	"	"	"	"	"	"	
Toluene	0.339	0.100	"	"	"	"	"	"	
Ethylbenzene	ND	0.100	"	"	"	"	"	"	
Xylenes (total)	0.289	0.200	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	81.8 %	65-132			"	"	"	"	
Surrogate: 4-BFB (PID)	110 %	75-136			"	"	"	"	
Gasoline Range Hydrocarbons (v/v)	ND	2.36	ppmv	"	"	"	"	"	
Benzene (v/v)	ND	0.0308	"	"	"	"	"	"	
Toluene (v/v)	0.0887	0.0261	"	"	"	"	"	"	
Ethylbenzene (v/v)	ND	0.0227	"	"	"	"	"	"	
Xylenes, total (v/v)	0.0657	0.0454	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

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Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: TOSCO Renton Terminal
Project Number: 706002.012
Project Manager: Martin Powers

Reported:
08/12/03 17:17

Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3H08017: Prepared 08/08/03 Using EPA 5030B (P/T)

Blank (3H08017-BLK1)

Gasoline Range Hydrocarbons	ND	10.0	mg/m ³ Air							
Gasoline Range Hydrocarbons (v/v)	ND	2.36	ppmv							
Benzene	ND	0.100	mg/m ³ Air							
Benzene (v/v)	ND	0.0308	ppmv							
Toluene	ND	0.100	mg/m ³ Air							
Toluene (v/v)	ND	0.0261	ppmv							
Ethylbenzene	ND	0.100	mg/m ³ Air							
Ethylbenzene (v/v)	ND	0.0227	ppmv							
Xylenes (total)	ND	0.200	mg/m ³ Air							
Xylenes, total (v/v)	ND	0.0454	ppmv							
Surrogate: 4-BFB (FID)	9.06		mg/m ³ Air	9.60		94.4	65-132			
Surrogate: 4-BFB (PID)	10.2		"	9.60		106	75-136			

LCS (3H08017-BS1)

Gasoline Range Hydrocarbons	69.3	10.0	mg/m ³ Air	100		69.3	50-150			
Surrogate: 4-BFB (FID)	10.8		"	9.60		112	65-132			

LCS (3H08017-BS2)

Benzene	1.28	0.100	mg/m ³ Air	2.00		64.0	50-150			
Toluene	1.19	0.100	"	2.00		59.5	50-150			
Ethylbenzene	1.20	0.100	"	1.96		61.2	50-150			
Xylenes (total)	3.88	0.200	"	6.00		64.7	50-150			
Surrogate: 4-BFB (PID)	10.8		"	9.60		112	75-136			

LCS Dup (3H08017-BSD1)

Gasoline Range Hydrocarbons	73.2	10.0	mg/m ³ Air	100		73.2	50-150	5.47	50	
Surrogate: 4-BFB (FID)	10.5		"	9.60		109	65-132			

North Creek Analytical - Bothell

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Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

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Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: TOSCO Renton Terminal
Project Number: 706002.012
Project Manager: Martin Powers

Reported:
08/12/03 17:17

Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3H08017: Prepared 08/08/03 Using EPA 5030B (P/T)										
LCS Dup (3H08017-BSD2)										
Benzene	1.66	0.100	mg/m ³ Air	2.00		83.0	50-150	25.9	50	
Toluene	1.57	0.100	"	2.00		78.5	50-150	27.5	50	
Ethylbenzene	1.55	0.100	"	1.96		79.1	50-150	25.5	50	
Xylenes (total)	4.98	0.200	"	6.00		83.0	50-150	24.8	50	
Surrogate: 4-BFB (PID)	11.2		"	9.60		117	75-136			
Duplicate (3H08017-DUP1) Source: B3H0121-02										
Gasoline Range Hydrocarbons	ND	10.0	mg/m ³ Air		3.08			3.51	30	
Surrogate: 4-BFB (FID)	8.46		"	9.60		88.1	65-132			

North Creek Analytical - Bothell

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Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

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Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: TOSCO Renton Terminal
Project Number: 706002.012
Project Manager: Martin Powers

Reported:
08/12/03 17:17

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

North Creek Analytical - Bothell

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Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

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19 August 2003

Martin Powers

Landau Associates - Edmonds

Sound View Plaza, 130 2nd Ave S

Edmonds, WA/USA 98020-9129

RE: Conoco Phillips - Renton

Enclosed are the results of analyses for samples received by the laboratory on 08/12/03 15:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanne Garthwaite
Project Manager



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Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
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Project: Conoco Phillips - Renton
Project Number: 706002.012
Project Manager: Martin Powers

Reported:
08/19/03 15:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LAI-21	B3H0266-01	Water	08/11/03 08:00	08/12/03 15:40
LAI-12	B3H0266-02	Water	08/11/03 11:10	08/12/03 15:40
LAI-15	B3H0266-03	Water	08/11/03 12:00	08/12/03 15:40
LAI-14	B3H0266-04	Water	08/11/03 12:30	08/12/03 15:40
LAI-13	B3H0266-05	Water	08/11/03 12:40	08/12/03 15:40
LAI-2	B3H0266-06	Water	08/11/03 13:10	08/12/03 15:40
LAI-3	B3H0266-07	Water	08/11/03 13:30	08/12/03 15:40
LAI-10	B3H0266-08	Water	08/11/03 13:50	08/12/03 15:40
HA-5	B3H0266-09	Water	08/11/03 14:30	08/12/03 15:40

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network Page 1 of 11



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Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 706002.012
Project Manager: Martin Powers

Reported:
08/19/03 15:31

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LAI-21 (B3H0266-01) Water Sampled: 08/11/03 08:00 Received: 08/12/03 15:40									
Gasoline Range Hydrocarbons	6620	500	ug/l	10	3H14007	08/14/03	08/14/03	NWTPH-Gx/8021B	
Benzene	1750	25.0	"	50	"	"	08/14/03	"	
Toluene	1340	25.0	"	"	"	"	"	"	
Ethylbenzene	104	5.00	"	10	"	"	08/14/03	"	
Xylenes (total)	678	10.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	103 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	113 %	72-127			"	"	"	"	
LAI-12 (B3H0266-02) Water Sampled: 08/11/03 11:10 Received: 08/12/03 15:40									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	3H14007	08/14/03	08/14/03	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	2.21	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	92.3 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	115 %	72-127			"	"	"	"	
LAI-15 (B3H0266-03) Water Sampled: 08/11/03 12:00 Received: 08/12/03 15:40									
Gasoline Range Hydrocarbons	158	50.0	ug/l	1	3H14007	08/14/03	08/14/03	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	0.641	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	1.95	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	95.4 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	115 %	72-127			"	"	"	"	

North Creek Analytical - Bothell

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Project: Conoco Phillips - Renton
Project Number: 706002.012
Project Manager: Martin Powers

Reported:
08/19/03 15:31

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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LAI-14 (B3H0266-04) Water Sampled: 08/11/03 12:30 Received: 08/12/03 15:40

Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	3H14007	08/14/03	08/14/03	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	0.631	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	94.4 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	111 %	72-127			"	"	"	"	

LAI-13 (B3H0266-05) Water Sampled: 08/11/03 12:40 Received: 08/12/03 15:40

Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	3H14007	08/14/03	08/14/03	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	0.647	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	91.9 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	113 %	72-127			"	"	"	"	

LAI-2 (B3H0266-06) Water Sampled: 08/11/03 13:10 Received: 08/12/03 15:40

Gasoline Range Hydrocarbons	8950	500	ug/l	10	3H14007	08/14/03	08/14/03	NWTPH-Gx/8021B	
Ethylbenzene	135	5.00	"	"	"	"	"	"	
Xylenes (total)	907	10.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	106 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	117 %	72-127			"	"	"	"	

LAI-2 (B3H0266-06RE1) Water Sampled: 08/11/03 13:10 Received: 08/12/03 15:40

Benzene	1880	25.0	ug/l	50	3H14003	08/14/03	08/15/03	NWTPH-Gx/8021B	
Toluene	2150	25.0	"	"	"	"	"	"	
Surrogate: 4-BFB (PID)	93.5 %	72-127			"	"	"	"	

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Project: Conoco Phillips - Renton
Project Number: 706002.012
Project Manager: Martin Powers

Reported:
08/19/03 15:31

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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LAI-3 (B3H0266-07) Water Sampled: 08/11/03 13:30 Received: 08/12/03 15:40

Gasoline Range Hydrocarbons	985	125	ug/l	2.5	3H14007	08/14/03	08/14/03	NWTPH-Gx/8021B	
Toluene	18.4	1.25	"	"	"	"	"	"	
Ethylbenzene	2.47	1.25	"	"	"	"	"	"	
Xylenes (total)	7.27	2.50	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	90.6 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	115 %	72-127			"	"	"	"	

LAI-3 (B3H0266-07RE1) Water Sampled: 08/11/03 13:30 Received: 08/12/03 15:40

Benzene	329	12.5	ug/l	25	3H14003	08/14/03	08/15/03	NWTPH-Gx/8021B	
Surrogate: 4-BFB (PID)	93.1 %	72-127			"	"	"	"	

LAI-10 (B3H0266-08) Water Sampled: 08/11/03 13:50 Received: 08/12/03 15:40

Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	3H14007	08/14/03	08/14/03	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	1.75	0.500	"	"	"	"	"	"	
Ethylbenzene	0.757	0.500	"	"	"	"	"	"	
Xylenes (total)	4.54	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	93.5 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	109 %	72-127			"	"	"	"	

HA-5 (B3H0266-09) Water Sampled: 08/11/03 14:30 Received: 08/12/03 15:40

Gasoline Range Hydrocarbons	2810	250	ug/l	5	3H14007	08/14/03	08/14/03	NWTPH-Gx/8021B	
Toluene	232	2.50	"	"	"	"	"	"	
Ethylbenzene	26.7	2.50	"	"	"	"	"	"	
Xylenes (total)	187	5.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	105 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	120 %	72-127			"	"	"	"	

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Project: Conoco Phillips - Renton
Project Number: 706002.012
Project Manager: Martin Powers

Reported:
08/19/03 15:31

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-5 (B3H0266-09RE1) Water Sampled: 08/11/03 14:30 Received: 08/12/03 15:40									
Benzene	659	12.5	ug/l	25	3H14003	08/14/03	08/15/03	NWTPH-Gx/8021B	
Surrogate: 4-BFB (PID)	93.8 %	72-127			"	"	"	"	

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Project: Conoco Phillips - Renton
Project Number: 706002.012
Project Manager: Martin Powers

Reported:
08/19/03 15:31

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LAI-21 (B3H0266-01) Water Sampled: 08/11/03 08:00 Received: 08/12/03 15:40									
Diesel Range Hydrocarbons	0.550	0.250	mg/l	1	3H15010	08/15/03	08/16/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	77.4 %	50-150			"	"	"	"	
Surrogate: Octacosane	80.2 %	50-150			"	"	"	"	
LAI-12 (B3H0266-02) Water Sampled: 08/11/03 11:10 Received: 08/12/03 15:40									
Diesel Range Hydrocarbons	0.354	0.250	mg/l	1	3H15010	08/15/03	08/16/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	75.3 %	50-150			"	"	"	"	
Surrogate: Octacosane	75.3 %	50-150			"	"	"	"	
LAI-15 (B3H0266-03) Water Sampled: 08/11/03 12:00 Received: 08/12/03 15:40									
Diesel Range Hydrocarbons	0.334	0.250	mg/l	1	3H15010	08/15/03	08/16/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	89.8 %	50-150			"	"	"	"	
Surrogate: Octacosane	81.4 %	50-150			"	"	"	"	
LAI-14 (B3H0266-04) Water Sampled: 08/11/03 12:30 Received: 08/12/03 15:40									
Diesel Range Hydrocarbons	0.278	0.250	mg/l	1	3H15010	08/15/03	08/16/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	73.8 %	50-150			"	"	"	"	
Surrogate: Octacosane	76.7 %	50-150			"	"	"	"	
LAI-13 (B3H0266-05) Water Sampled: 08/11/03 12:40 Received: 08/12/03 15:40									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	3H15010	08/15/03	08/16/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	79.0 %	50-150			"	"	"	"	
Surrogate: Octacosane	80.2 %	50-150			"	"	"	"	

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Project: Conoco Phillips - Renton
Project Number: 706002.012
Project Manager: Martin Powers

Reported:
08/19/03 15:31

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LAI-2 (B3H0266-06) Water Sampled: 08/11/03 13:10 Received: 08/12/03 15:40									
Diesel Range Hydrocarbons	0.516	0.281	mg/l	1	3H15010	08/15/03	08/16/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.562	"	"	"	"	"	"	
Surrogate: 2-FBP	83.1 %	50-150			"	"	"	"	
Surrogate: Octacosane	81.1 %	50-150			"	"	"	"	
LAI-3 (B3H0266-07) Water Sampled: 08/11/03 13:30 Received: 08/12/03 15:40									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	3H15010	08/15/03	08/16/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	76.9 %	50-150			"	"	"	"	
Surrogate: Octacosane	81.0 %	50-150			"	"	"	"	
LAI-10 (B3H0266-08) Water Sampled: 08/11/03 13:50 Received: 08/12/03 15:40									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	3H15010	08/15/03	08/16/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	85.0 %	50-150			"	"	"	"	
Surrogate: Octacosane	97.1 %	50-150			"	"	"	"	
HA-5 (B3H0266-09) Water Sampled: 08/11/03 14:30 Received: 08/12/03 15:40									
Diesel Range Hydrocarbons	0.512	0.250	mg/l	1	3H15010	08/15/03	08/16/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	78.6 %	50-150			"	"	"	"	
Surrogate: Octacosane	77.3 %	50-150			"	"	"	"	

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Project Number: 706002.012
Project Manager: Martin Powers

Reported:
08/19/03 15:31

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3H14003: Prepared 08/14/03 Using EPA 5030B (P/T)

Blank (3H14003-BLK1)

Benzene	ND	0.500	ug/l							
Toluene	ND	0.500	"							
Surrogate: 4-BFB (PID)	49.4		"	48.0		103	72-127			

LCS (3H14003-BS1)

Benzene	7.05	0.500	ug/l	7.31		96.4	80-120			
Toluene	36.7	0.500	"	33.9		108	80-120			
Surrogate: 4-BFB (PID)	48.0		"	48.0		100	72-127			

LCS Dup (3H14003-BSD1)

Benzene	6.93	0.500	ug/l	7.31		94.8	80-120	1.72	40	
Toluene	36.0	0.500	"	33.9		106	80-120	1.93	40	
Surrogate: 4-BFB (PID)	48.5		"	48.0		101	72-127			

Matrix Spike (3H14003-MS1)

Source: B3H0157-08

Benzene	6.41	0.500	ug/l	7.31	ND	87.7	70-129			
Toluene	35.4	0.500	"	33.9	ND	104	73-114			
Surrogate: 4-BFB (PID)	44.6		"	48.0		92.9	72-127			

Matrix Spike Dup (3H14003-MSD1)

Source: B3H0157-08

Benzene	6.38	0.500	ug/l	7.31	ND	87.3	70-129	0.469	40	
Toluene	35.3	0.500	"	33.9	ND	104	73-114	0.283	40	
Surrogate: 4-BFB (PID)	44.9		"	48.0		93.5	72-127			

Batch 3H14007: Prepared 08/14/03 Using EPA 5030B (P/T)

Blank (3H14007-BLK1)

Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (FID)	43.6		"	48.0		90.8	62-127			
Surrogate: 4-BFB (PID)	54.5		"	48.0		114	72-127			

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Project: Conoco Phillips - Renton
Project Number: 706002.012
Project Manager: Martin Powers

Reported:
08/19/03 15:31

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3H14007: Prepared 08/14/03 Using EPA 5030B (P/T)

LCS (3H14007-BS1)

Gasoline Range Hydrocarbons	486	50.0	ug/l	500		97.2	80-120			
Benzene	6.82	0.500	"	6.65		103	80-120			
Toluene	33.4	0.500	"	37.0		90.3	80-120			
Ethylbenzene	8.85	0.500	"	8.55		104	80-120			
Xylenes (total)	42.9	1.00	"	43.0		99.8	80-120			
Surrogate: 4-BFB (FID)	55.2		"	48.0		115	62-127			
Surrogate: 4-BFB (PID)	53.8		"	48.0		112	72-127			

LCS Dup (3H14007-BSD1)

Gasoline Range Hydrocarbons	475	50.0	ug/l	500		95.0	80-120	2.29	25	
Benzene	7.06	0.500	"	6.65		106	80-120	3.46	40	
Toluene	34.6	0.500	"	37.0		93.5	80-120	3.53	40	
Ethylbenzene	9.17	0.500	"	8.55		107	80-120	3.55	40	
Xylenes (total)	45.1	1.00	"	43.0		105	80-120	5.00	40	
Surrogate: 4-BFB (FID)	53.8		"	48.0		112	62-127			
Surrogate: 4-BFB (PID)	54.7		"	48.0		114	72-127			

Matrix Spike (3H14007-MS1)

Source: B3H0266-02

Gasoline Range Hydrocarbons	437	50.0	ug/l	500	30.8	81.2	72-119			
Benzene	7.12	0.500	"	6.65	0.146	105	70-129			
Toluene	35.0	0.500	"	37.0	0.191	94.1	73-114			
Ethylbenzene	9.14	0.500	"	8.55	0.167	105	82-120			
Xylenes (total)	46.3	1.00	"	43.0	2.21	103	74-118			
Surrogate: 4-BFB (FID)	50.3		"	48.0		105	62-127			
Surrogate: 4-BFB (PID)	57.1		"	48.0		119	72-127			

Matrix Spike Dup (3H14007-MSD1)

Source: B3H0266-02

Gasoline Range Hydrocarbons	464	50.0	ug/l	500	30.8	86.6	72-119	5.99	25	
Benzene	7.33	0.500	"	6.65	0.146	108	70-129	2.91	40	
Toluene	35.7	0.500	"	37.0	0.191	96.0	73-114	1.98	40	
Ethylbenzene	9.29	0.500	"	8.55	0.167	107	82-120	1.63	40	
Xylenes (total)	46.9	1.00	"	43.0	2.21	104	74-118	1.29	40	
Surrogate: 4-BFB (FID)	51.8		"	48.0		108	62-127			
Surrogate: 4-BFB (PID)	56.7		"	48.0		118	72-127			

North Creek Analytical - Bothell

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Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network Page 9 of 11



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Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 706002.012
Project Manager: Martin Powers

Reported:
08/19/03 15:31

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 3H15010: Prepared 08/15/03 Using EPA 3520C

Blank (3H15010-BLK1)

Diesel Range Hydrocarbons	ND	0.250	mg/l						
Lube Oil Range Hydrocarbons	ND	0.500	"						
Surrogate: 2-FBP	0.268		"	0.320		83.8	50-150		
Surrogate: Octacosane	0.156		"	0.160		97.5	50-150		

LCS (3H15010-BS1)

Diesel Range Hydrocarbons	1.46	0.250	mg/l	2.00		73.0	63-107		
Surrogate: 2-FBP	0.265		"	0.320		82.8	50-150		

LCS Dup (3H15010-BSD1)

Diesel Range Hydrocarbons	1.57	0.250	mg/l	2.00		78.5	63-107	7.26	40
Surrogate: 2-FBP	0.279		"	0.320		87.2	50-150		

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Jeanne Garthwaite, Project Manager

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Environmental Laboratory Network Page 10 of 11



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Project: Conoco Phillips - Renton
Project Number: 706002.012
Project Manager: Martin Powers

Reported:
08/19/03 15:31

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

North Creek Analytical - Bothell

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Jeanne Garthwaite, Project Manager

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Environmental Laboratory Network Page 11 of 11

Chain-of-Custody Record

B3+10266

Date 8-11-03
Page 1 of 1

Project Information					Testing Parameters		Turnaround Time		Observations/Comments
Project Name	Project Location/Event	Sampler's Name	Project Contact	Send Results To	Sample I.D.	Date	Time	Matrix	
Conoco Phillips - Renton	Renton / Aug. 2003	Erik Gerking / Brian Tracy	Chris Kimmel	Same	LA1-21	8-11-03	0800	H ₂ O	6
					LA1-12		1110		5
					LA1-15		1200		6
					LA1-14		1230		5
					LA1-13		1240		6
					LA1-2		1310		6
					LA1-3		1330		6
					LA1-10		1350		6
					LA1-5		1430		5

Special Shipment/Handling or Storage Requirements	Method of Shipment	Received by	Relinquished by
Store on ice @ 4°C	Courier	Signature: <u>[Signature]</u> Printed Name: <u>BRADY TANTY</u> Company: <u></u>	Signature: <u>[Signature]</u> Printed Name: <u>Michael Armstrong</u> Company: <u>NCA</u>

Relinquished by	Received by
Signature: <u>Erik R. Gerking</u> Printed Name: <u>Erik Gerking</u> Company: <u>LA1</u>	Signature: <u>[Signature]</u> Printed Name: <u>Michael Armstrong</u> Company: <u>NCA</u>

Date	Time
8-12-03	15:40



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22 September 2003

Martin Powers

Landau Associates - Edmonds

Sound View Plaza, 130 2nd Ave S

Edmonds, WA/USA 98020-9129

RE: Conoco Phillips - Renton

Enclosed are the results of analyses for samples received by the laboratory on 09/12/03 17:34. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanne Garthwaite

Project Manager



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Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 706002.020
Project Manager: Martin Powers

Reported:
09/22/03 16:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Influent	B3I0408-01	Water	09/11/03 13:00	09/12/03 17:34
Effluent	B3I0408-02	Water	09/11/03 13:15	09/12/03 17:34
HA-13	B3I0408-03	Water	09/11/03 13:45	09/12/03 17:34

North Creek Analytical - Bothell

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Jeanne Garthwaite, Project Manager

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Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 706002.020
Project Manager: Martin Powers

Reported:
09/22/03 16:29

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Influent (B310408-01) Water Sampled: 09/11/03 13:00 Received: 09/12/03 17:34									
Gasoline Range Hydrocarbons	320000	10000	ug/l	200	3119008	09/19/03	09/19/03	NWTPH-Gx/8021B	
Benzene	37500	1250	"	2500	"	"	09/19/03	"	
Toluene	76700	1250	"	"	"	"	"	"	
Ethylbenzene	2810	100	"	200	"	"	09/19/03	"	
Xylenes (total)	22400	200	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	95.6 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	88.1 %	72-127			"	"	"	"	
Effluent (B310408-02) Water Sampled: 09/11/03 13:15 Received: 09/12/03 17:34									
Gasoline Range Hydrocarbons	2480	500	ug/l	10	3119008	09/19/03	09/19/03	NWTPH-Gx/8021B	
Benzene	11.6	5.00	"	"	"	"	"	"	
Toluene	23.7	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	5.00	"	"	"	"	"	"	
Xylenes (total)	68.7	10.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	91.7 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	86.0 %	72-127			"	"	"	"	
HA-13 (B310408-03) Water Sampled: 09/11/03 13:45 Received: 09/12/03 17:34									
Gasoline Range Hydrocarbons	498	50.0	ug/l	1	3119008	09/19/03	09/19/03	NWTPH-Gx/8021B	
Benzene	3.38	0.500	"	"	"	"	"	"	
Toluene	28.9	0.500	"	"	"	"	"	"	
Ethylbenzene	7.87	0.500	"	"	"	"	"	"	
Xylenes (total)	60.6	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	95.2 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	94.4 %	72-127			"	"	"	"	

North Creek Analytical - Bothell

Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

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Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 706002.020
Project Manager: Martin Powers

Reported:
09/22/03 16:29

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Influent (B3I0408-01) Water Sampled: 09/11/03 13:00 Received: 09/12/03 17:34									
Diesel Range Hydrocarbons	2.74	0.250	mg/l	1	3I17004	09/17/03	09/18/03	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	118 %	50-150			"	"	"	"	
Surrogate: Octacosane	86.4 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Project: Conoco Phillips - Renton
Project Number: 706002.020
Project Manager: Martin Powers

Reported:
09/22/03 16:29

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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Batch 3I19008: Prepared 09/19/03 Using EPA 5030B (P/T)

Blank (3I19008-BLK1)

Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (FID)	41.9		"	48.0		87.3	62-127			
Surrogate: 4-BFB (PID)	44.4		"	48.0		92.5	72-127			

LCS (3I19008-BS1)

Gasoline Range Hydrocarbons	467	50.0	ug/l	502		93.0	80-120			
Benzene	6.29	0.500	"	7.38		85.2	80-120			
Toluene	33.3	0.500	"	34.9		95.4	80-120			
Ethylbenzene	8.42	0.500	"	8.19		103	80-120			
Xylenes (total)	40.6	1.00	"	39.7		102	80-120			
Surrogate: 4-BFB (FID)	46.1		"	48.0		96.0	62-127			
Surrogate: 4-BFB (PID)	42.0		"	48.0		87.5	72-127			

LCS Dup (3I19008-BSD1)

Gasoline Range Hydrocarbons	454	50.0	ug/l	502		90.4	80-120	2.82	25	
Benzene	6.61	0.500	"	7.38		89.6	80-120	4.96	40	
Toluene	34.6	0.500	"	34.9		99.1	80-120	3.83	40	
Ethylbenzene	8.42	0.500	"	8.19		103	80-120	0.00	40	
Xylenes (total)	40.7	1.00	"	39.7		103	80-120	0.246	40	
Surrogate: 4-BFB (FID)	46.1		"	48.0		96.0	62-127			
Surrogate: 4-BFB (PID)	43.3		"	48.0		90.2	72-127			

Matrix Spike (3I19008-MS1)

Source: B3I0317-02

Gasoline Range Hydrocarbons	423	50.0	ug/l	502	75.4	69.2	72-119			Q-01
Benzene	4.64	0.500	"	7.38	ND	62.9	70-129			Q-01
Toluene	24.6	0.500	"	34.9	0.333	69.5	73-114			Q-01
Ethylbenzene	6.26	0.500	"	8.19	0.410	71.4	82-120			Q-01
Xylenes (total)	31.1	1.00	"	39.7	1.72	74.0	74-118			
Surrogate: 4-BFB (FID)	46.0		"	48.0		95.8	62-127			
Surrogate: 4-BFB (PID)	43.5		"	48.0		90.6	72-127			

North Creek Analytical - Bothell

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Jeanne Garthwaite, Project Manager

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Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 706002.020
Project Manager: Martin Powers

Reported:
09/22/03 16:29

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3I19008: Prepared 09/19/03 Using EPA 5030B (P/T)										
Matrix Spike Dup (3I19008-MSD1)				Source: B3I0317-02						
Gasoline Range Hydrocarbons	470	50.0	ug/l	502	75.4	78.6	72-119	10.5	25	
Benzene	5.69	0.500	"	7.38	ND	77.1	70-129	20.3	40	
Toluene	30.2	0.500	"	34.9	0.333	85.6	73-114	20.4	40	
Ethylbenzene	7.54	0.500	"	8.19	0.410	87.1	82-120	18.6	40	
Xylenes (total)	37.3	1.00	"	39.7	1.72	89.6	74-118	18.1	40	
Surrogate: 4-BFB (FID)	46.5		"	48.0		96.9	62-127			
Surrogate: 4-BFB (PID)	43.5		"	48.0		90.6	72-127			

North Creek Analytical - Bothell

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Jeanne Garthwaite, Project Manager

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Project: Conoco Phillips - Renton
Project Number: 706002.020
Project Manager: Martin Powers

Reported:
09/22/03 16:29

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD Limit	Notes
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Batch 3I17004: Prepared 09/17/03 Using EPA 3520C

Blank (3I17004-BLK1)

Diesel Range Hydrocarbons	ND	0.250	mg/l
Lube Oil Range Hydrocarbons	ND	0.500	"

Surrogate: 2-FBP	0.284	"	0.320	88.8	50-150
Surrogate: Octacosane	0.151	"	0.160	94.4	50-150

LCS (3I17004-BS1)

Diesel Range Hydrocarbons	1.58	0.250	mg/l	2.00	79.0	63-107
Surrogate: 2-FBP	0.302	"	0.320		94.4	50-150

LCS Dup (3I17004-BS1)

Diesel Range Hydrocarbons	1.63	0.250	mg/l	2.00	81.5	63-107	3.12	40
Surrogate: 2-FBP	0.281	"	0.320	87.8	50-150			

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Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 706002.020
Project Manager: Martin Powers

Reported:
09/22/03 16:29

Notes and Definitions

- D-08 Results in the diesel organics range are primarily due to overlap from a gasoline range product.
- Q-01 The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

Page 7 of 7



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28 October 2003

Martin Powers
Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129
RE: Conoco Phillips - Renton

PROJECT
FILE
No. 706002.012

Enclosed are the results of analyses for samples received by the laboratory on 10/15/03 10:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanne Garthwaite
Project Manager



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
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Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 706002.020
Project Manager: Martin Powers

Reported:
10/28/03 13:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Influent	B3J0424-01	Air	10/14/03 16:40	10/15/03 10:40
Effluent	B3J0424-02	Air	10/14/03 16:45	10/15/03 10:40

North Creek Analytical - Bothell

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Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

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Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 706002.020
Project Manager: Martin Powers

Reported:
10/28/03 13:25

Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Influent (B3J0424-01) Air Sampled: 10/14/03 16:40 Received: 10/15/03 10:40

Gasoline Range Hydrocarbons	3310	500	mg/m ³ Air	50	3J17003	10/17/03	10/17/03	NWTPH Modified	
Benzene	140	5.00	"	"	"	"	"	"	
Toluene	350	5.00	"	"	"	"	"	"	
Ethylbenzene	28.7	5.00	"	"	"	"	"	"	
Xylenes (total)	151	10.0	"	"	"	"	"	"	

Surrogate: 4-BFB (FID) 90.8 % 65-132 " " " "

Surrogate: 4-BFB (PID) 95.6 % 75-136 " " " "

Gasoline Range Hydrocarbons (v/v) 779 118 ppmv 50 " " " "

Benzene (v/v) 43.2 1.54 " " " "

Toluene (v/v) 91.5 1.30 " " " "

Ethylbenzene (v/v) 6.51 1.14 " " " "

Xylenes, total (v/v) 34.1 2.27 " " " "

Effluent (B3J0424-02) Air Sampled: 10/14/03 16:45 Received: 10/15/03 10:40

Gasoline Range Hydrocarbons	ND	10.0	mg/m ³ Air	1	3J17003	10/17/03	10/17/03	NWTPH Modified	
Benzene	ND	0.100	"	"	"	"	"	"	
Toluene	ND	0.100	"	"	"	"	"	"	
Ethylbenzene	ND	0.100	"	"	"	"	"	"	
Xylenes (total)	ND	0.200	"	"	"	"	"	"	

Surrogate: 4-BFB (FID) 94.0 % 65-132 " " " "

Surrogate: 4-BFB (PID) 103 % 75-136 " " " "

Gasoline Range Hydrocarbons (v/v) ND 2.36 ppmv " " " "

Benzene (v/v) ND 0.0308 " " " "

Toluene (v/v) ND 0.0261 " " " "

Ethylbenzene (v/v) ND 0.0227 " " " "

Xylenes, total (v/v) ND 0.0454 " " " "

North Creek Analytical - Bothell

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Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

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Sound View Plaza, 130 2nd Ave S
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Project: Conoco Phillips - Renton
Project Number: 706002.020
Project Manager: Martin Powers

Reported:
10/28/03 13:25

Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3J17003: Prepared 10/17/03 Using EPA 5030B (P/T)

Blank (3J17003-BLK1)

Gasoline Range Hydrocarbons	ND	10.0	mg/m ³ Air
Gasoline Range Hydrocarbons (v/v)	ND	2.36	ppmv
Benzene	ND	0.100	mg/m ³ Air
Benzene (v/v)	ND	0.0308	ppmv
Toluene	ND	0.100	mg/m ³ Air
Toluene (v/v)	ND	0.0261	ppmv
Ethylbenzene	ND	0.100	mg/m ³ Air
Ethylbenzene (v/v)	ND	0.0227	ppmv
Xylenes (total)	ND	0.200	mg/m ³ Air
Xylenes, total (v/v)	ND	0.0454	ppmv

Surrogate: 4-BFB (FID)	9.31	mg/m ³ Air	9.60	97.0	65-132
Surrogate: 4-BFB (PID)	9.85	"	9.60	103	75-136

LCS (3J17003-BS1)

Gasoline Range Hydrocarbons	87.2	10.0	mg/m³ Air	100	87.2	50-150
Surrogate: 4-BFB (FID)	10.1	"	9.60	105	65-132	

LCS (3J17003-BS2)

Benzene	1.78	0.100	mg/m³ Air	2.00	89.0	50-150
Toluene	1.86	0.100	"	2.00	93.0	50-150
Ethylbenzene	1.79	0.100	"	1.96	91.3	50-150
Xylenes (total)	5.53	0.200	"	6.00	92.2	50-150
Surrogate: 4-BFB (PID)	9.87		"	9.60	103	75-136

LCS Dup (3J17003-BSD1)

Gasoline Range Hydrocarbons	82.1	10.0	mg/m³ Air	100	82.1	50-150	6.02	50
Surrogate: 4-BFB (FID)	10.1	"		9.60	105	65-132		

North Creek Analytical - Bothell

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Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

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Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 706002.020
Project Manager: Martin Powers

Reported:
10/28/03 13:25

Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3J17003: Prepared 10/17/03 Using EPA 5030B (P/T)

LCS Dup (3J17003-BSD2)

Benzene	1.91	0.100	mg/m ³ Air	2.00		95.5	50-150	7.05	50	
Toluene	1.99	0.100	"	2.00		99.5	50-150	6.75	50	
Ethylbenzene	1.95	0.100	"	1.96		99.5	50-150	8.56	50	
Xylenes (total)	6.02	0.200	"	6.00		100	50-150	8.48	50	
Surrogate: 4-BFB (PID)	9.88		"	9.60		103	75-136			

Duplicate (3J17003-DUP1)

Source: B3J0424-02

Gasoline Range Hydrocarbons	ND	10.0	mg/m ³ Air		3.97			5.39	30	
Surrogate: 4-BFB (FID)	8.32		"	9.60		86.7	65-132			

North Creek Analytical - Bothell

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Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

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Project: Conoco Phillips - Renton
Project Number: 706002.020
Project Manager: Martin Powers

Reported:
10/28/03 13:25

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

North Creek Analytical - Bothell

Jeanne Garthwaite, Project Manager

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10 December 2003

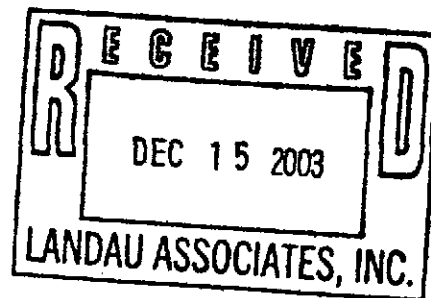
Cathy Kilday

Landau Associates - Edmonds

Sound View Plaza, 130 2nd Ave S

Edmonds, WA/USA 98020-9129

RE: Conoco Phillips - Renton



Enclosed are the results of analyses for samples received by the laboratory on 11/21/03 15:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanne Garthwaite

Project Manager



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CASE NARRATIVE for B3K0600

Client: Landau Associates
Project Manager: Cathy Kilday
Project Name: Conoco Phillips Renton

1.0 DESCRIPTION OF CASE

Fifteen water and two air samples were received in a single shipment as documented on the associated chain-of-custody. The scheduled analyses for these samples included: Gasoline Hydrocarbons and BTEX by NWTPH-Gx/EPA 8021B and Diesel Range Hydrocarbons by NWTPH-Dx.

2.0 COMMENTS ON SAMPLE RECEIPT

The samples were received in the Bothell laboratory on November 11, 2003. The cooler temperature was documented at 5.2 degrees C. upon receipt in the laboratory. All sample containers were received in good condition.

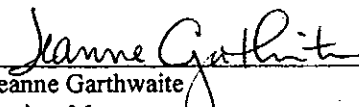
3.0 COMMENTS ON PREPARATION AND ANALYSIS

Gasoline Hydrocarbons and BTEX by NWTPH-Gx/EPA 8021

Sample LAI-3 was originally analyzed in batch 3L04010 on December 4, 2003. There appeared to be carry-over for xylenes from the previous sample. LAI-3 was re-analyzed for xylenes on December 8, 2003 in batch 3L08002 out of holding time. Both sets of data are provided for your comparison. All quality control measures were within acceptable ranges.

Diesel Range Hydrocarbons by NWTPH-Dx

Sample LAI-12 was analyzed in batch 3L01015 on December 1, 2003. The surrogate recovery for 2-FBP was lower than the acceptable range. The sample was re-analyzed with the same results occurring. There was no extra sample volume for a re-extraction. The diesel range hydrocarbons range may be biased low. All quality control measures were within acceptable ranges.


Jeanne Garthwaite
Project Manager
North Creek Analytical



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Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 3485-LAI-012
Project Manager: Cathy Kilday

Reported:
12/10/03 09:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HA-18	B3K0600-01	Water	11/20/03 11:25	11/21/03 15:50
HA-17	B3K0600-02	Water	11/20/03 11:45	11/21/03 15:50
LAI-13	B3K0600-03	Water	11/20/03 13:45	11/21/03 15:50
LAI-14	B3K0600-04	Water	11/20/03 14:05	11/21/03 15:50
LAI-15	B3K0600-05	Water	11/20/03 14:30	11/21/03 15:50
LAI-10	B3K0600-06	Water	11/20/03 14:00	11/21/03 15:50
LAI-11	B3K0600-07	Water	11/20/03 15:10	11/21/03 15:50
LAI-12	B3K0600-08	Water	11/20/03 15:35	11/21/03 15:50
LAI-2	B3K0600-09	Water	11/20/03 15:50	11/21/03 15:50
LAI-3	B3K0600-10	Water	11/20/03 15:55	11/21/03 15:50
HA-13	B3K0600-11	Water	11/21/03 10:00	11/21/03 15:50
LAI-16	B3K0600-12	Water	11/21/03 10:00	11/21/03 15:50
LAI-25	B3K0600-13	Water	11/21/03 10:30	11/21/03 15:50
Influent	B3K0600-14	Water	11/21/03 11:00	11/21/03 15:50
Effluent	B3K0600-15	Water	11/21/03 11:10	11/21/03 15:50
Influent	B3K0600-16	Air	11/21/03 11:50	11/21/03 15:50
Effluent	B3K0600-17	Air	11/21/03 12:00	11/21/03 15:50

North Creek Analytical - Bothell

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Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc.
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Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 3485-LAI-012
Project Manager: Cathy Kilday

Reported:
12/10/03 09:37

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-18 (B3K0600-01) Water Sampled: 11/20/03 11:25 Received: 11/21/03 15:50									
Gasoline Range Hydrocarbons	28000	5000	ug/l	100	3L03010	12/04/03	12/04/03	NWTPH-Gx/8021B	
Benzene	284	50.0	"	"	"	"	"	"	
Toluene	178	50.0	"	"	"	"	"	"	
Ethylbenzene	1950	50.0	"	"	"	"	"	"	
Xylenes (total)	6400	100	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	105 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	105 %	72-127			"	"	"	"	
HA-17 (B3K0600-02) Water Sampled: 11/20/03 11:45 Received: 11/21/03 15:50									
Gasoline Range Hydrocarbons	585	50.0	ug/l	1	3L03010	12/04/03	12/04/03	NWTPH-Gx/8021B	
Benzene	8.92	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	96.7 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	99.0 %	72-127			"	"	"	"	
LAI-13 (B3K0600-03) Water Sampled: 11/20/03 13:45 Received: 11/21/03 15:50									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	3L03010	12/04/03	12/04/03	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	103 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	101 %	72-127			"	"	"	"	

North Creek Analytical - Bothell

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Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

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Project: Conoco Phillips - Renton
Project Number: 3485-LAI-012
Project Manager: Cathy Kilday

Reported:
12/10/03 09:37

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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LAI-14 (B3K0600-04) Water Sampled: 11/20/03 14:05 Received: 11/21/03 15:50

Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	3L03010	12/04/03	12/04/03	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	99.4 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	97.3 %	72-127			"	"	"	"	

LAI-15 (B3K0600-05) Water Sampled: 11/20/03 14:30 Received: 11/21/03 15:50

Gasoline Range Hydrocarbons	53.9	50.0	ug/l	1	3L03010	12/04/03	12/04/03	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	94.6 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	97.7 %	72-127			"	"	"	"	

LAI-10 (B3K0600-06) Water Sampled: 11/20/03 14:00 Received: 11/21/03 15:50

Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	3L03010	12/04/03	12/04/03	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	96.9 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	109 %	72-127			"	"	"	"	

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Heanne Garthwaite

Heanne Garthwaite, Project Manager

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Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 3485-LAI-012
Project Manager: Cathy Kilday

Reported:
12/10/03 09:37

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LAI-11 (B3K0600-07) Water Sampled: 11/20/03 15:10 Received: 11/21/03 15:50									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	3L04010	12/04/03	12/04/03	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	92.5 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	110 %	72-127			"	"	"	"	
LAI-12 (B3K0600-08) Water Sampled: 11/20/03 15:35 Received: 11/21/03 15:50									
Gasoline Range Hydrocarbons	60.7	50.0	ug/l	1	3L04010	12/04/03	12/04/03	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	99.0 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	109 %	72-127			"	"	"	"	
LAI-2 (B3K0600-09) Water Sampled: 11/20/03 15:50 Received: 11/21/03 15:50									
Gasoline Range Hydrocarbons	1330	50.0	ug/l	1	3L04010	12/04/03	12/04/03	NWTPH-Gx/8021B	
Benzene	580	5.00	"	10	"	"	12/04/03	"	
Toluene	1.98	0.500	"	1	"	"	12/04/03	"	
Ethylbenzene	35.3	0.500	"	"	"	"	"	"	
Xylenes (total)	235	10.0	"	10	"	"	"	"	
Surrogate: 4-BFB (FID)	101 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	106 %	72-127			"	"	"	"	

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Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

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Project: Conoco Phillips - Renton
Project Number: 3485-LAI-012
Project Manager: Cathy Kilday

Reported:
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Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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LAI-3 (B3K0600-10) Water Sampled: 11/20/03 15:55 Received: 11/21/03 15:50

Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	3L04010	12/04/03	12/04/03	NWTPH-Gx/8021B	
Benzene	9.20	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	1.42	1.00	"	"	"	"	"	"	A-01
Surrogate: 4-BFB (FID)	91.5 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	112 %	72-127			"	"	"	"	

LAI-3 (B3K0600-10RE1) Water Sampled: 11/20/03 15:55 Received: 11/21/03 15:50

I-02, X

Xylenes (total)	ND	1.00	ug/l	1	3L08002	12/08/03	12/08/03	NWTPH-Gx/8021B	
Surrogate: 4-BFB (PID)	93.5 %	72-127			"	"	"	"	

LA-13 (B3K0600-11) Water Sampled: 11/21/03 10:00 Received: 11/21/03 15:50

Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	3L04010	12/04/03	12/04/03	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	0.877	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	1.15	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	92.7 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	110 %	72-127			"	"	"	"	

LAI-16 (B3K0600-12) Water Sampled: 11/21/03 10:00 Received: 11/21/03 15:50

Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	3L04010	12/04/03	12/04/03	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	90.6 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	109 %	72-127			"	"	"	"	

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Deanne Garthwaite

Deanne Garthwaite, Project Manager

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Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 3485-LAI-012
Project Manager: Cathy Kilday

Reported:
12/10/03 09:37

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LAI-25 (B3K0600-13) Water Sampled: 11/21/03 10:30 Received: 11/21/03 15:50									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	3L04010	12/04/03	12/04/03	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	94.8 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	111 %	72-127			"	"	"	"	
Influent (B3K0600-14) Water Sampled: 11/21/03 11:00 Received: 11/21/03 15:50									
Gasoline Range Hydrocarbons	265000	25000	ug/l	500	3L03010	12/04/03	12/04/03	NWTPH-Gx/8021B	
Benzene	29500	250	"	"	"	"	"	"	
Toluene	79400	1250	"	2500	"	"	12/04/03	"	
Ethylbenzene	5200	250	"	500	"	"	12/04/03	"	
Xylenes (total)	30600	500	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	102 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	104 %	72-127			"	"	"	"	
Effluent (B3K0600-15) Water Sampled: 11/21/03 11:10 Received: 11/21/03 15:50									
Gasoline Range Hydrocarbons	21700	5000	ug/l	100	3L03010	12/04/03	12/04/03	NWTPH-Gx/8021B	
Benzene	1830	50.0	"	"	"	"	"	"	
Toluene	5000	50.0	"	"	"	"	"	"	
Ethylbenzene	377	50.0	"	"	"	"	"	"	
Xylenes (total)	2770	100	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	99.6 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	106 %	72-127			"	"	"	"	

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Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

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Project: Conoco Phillips - Renton
Project Number: 3485-LAI-012
Project Manager: Cathy Kilday

Reported:
12/10/03 09:37

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-18 (B3K0600-01) Water Sampled: 11/20/03 11:25 Received: 11/21/03 15:50									
Diesel Range Hydrocarbons	6.87	1.25	mg/l	5	3L01015	12/01/03	12/03/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	1	"	"	12/02/03	"	
Surrogate: 2-FBP	83.1 %	50-150			"	"	"	"	
Surrogate: Octacosane	76.9 %	50-150			"	"	"	"	
HA-17 (B3K0600-02) Water Sampled: 11/20/03 11:45 Received: 11/21/03 15:50									
Diesel Range Hydrocarbons	0.620	0.250	mg/l	1	3L01015	12/01/03	12/02/03	NWTPH-Dx	D-06
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	85.9 %	50-150			"	"	"	"	
Surrogate: Octacosane	93.1 %	50-150			"	"	"	"	
LAI-13 (B3K0600-03) Water Sampled: 11/20/03 13:45 Received: 11/21/03 15:50									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	3L01015	12/01/03	12/02/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	70.6 %	50-150			"	"	"	"	
Surrogate: Octacosane	93.1 %	50-150			"	"	"	"	
LAI-14 (B3K0600-04) Water Sampled: 11/20/03 14:05 Received: 11/21/03 15:50									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	3L01015	12/01/03	12/03/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	68.2 %	50-150			"	"	"	"	
Surrogate: Octacosane	86.5 %	50-150			"	"	"	"	
LAI-15 (B3K0600-05) Water Sampled: 11/20/03 14:30 Received: 11/21/03 15:50									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	3L01015	12/01/03	12/02/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	71.2 %	50-150			"	"	"	"	
Surrogate: Octacosane	98.0 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Deanne Garthwaite, Project Manager

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Project: Conoco Phillips - Renton
Project Number: 3485-LAI-012
Project Manager: Cathy Kilday

Reported:
12/10/03 09:37

Semivolatle Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LAI-10 (B3K0600-06) Water Sampled: 11/20/03 14:00 Received: 11/21/03 15:50									
Diesel Range Hydrocarbons	1.95	0.250	mg/l	1	3L01015	12/01/03	12/03/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	106 %	50-150			"	"	"	"	
Surrogate: Octacosane	123 %	50-150			"	"	"	"	
LAI-11 (B3K0600-07) Water Sampled: 11/20/03 15:10 Received: 11/21/03 15:50									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	3L01015	12/01/03	12/02/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	59.4 %	50-150			"	"	"	"	
Surrogate: Octacosane	93.5 %	50-150			"	"	"	"	
LAI-12 (B3K0600-08) Water Sampled: 11/20/03 15:35 Received: 11/21/03 15:50									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	3L01015	12/01/03	12/03/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	49.0 %	50-150			"	"	"	"	X
Surrogate: Octacosane	87.0 %	50-150			"	"	"	"	
LAI-2 (B3K0600-09) Water Sampled: 11/20/03 15:50 Received: 11/21/03 15:50									
Diesel Range Hydrocarbons	0.304	0.250	mg/l	1	3L01015	12/01/03	12/02/03	NWTPH-Dx	D-06
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	99.7 %	50-150			"	"	"	"	
Surrogate: Octacosane	100 %	50-150			"	"	"	"	
LAI-3 (B3K0600-10) Water Sampled: 11/20/03 15:55 Received: 11/21/03 15:50									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	3L01015	12/01/03	12/03/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	84.1 %	50-150			"	"	"	"	
Surrogate: Octacosane	90.1 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Project: Conoco Phillips - Renton
Project Number: 3485-LAI-012
Project Manager: Cathy Kilday

Reported:
12/10/03 09:37

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-13 (B3K0600-11) Water Sampled: 11/21/03 10:00 Received: 11/21/03 15:50									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	3L01015	12/01/03	12/02/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	89.1 %	50-150			"	"	"	"	
Surrogate: Octacosane	96.7 %	50-150			"	"	"	"	
LAI-16 (B3K0600-12) Water Sampled: 11/21/03 10:00 Received: 11/21/03 15:50									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	3L01015	12/01/03	12/03/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	77.3 %	50-150			"	"	"	"	
Surrogate: Octacosane	93.5 %	50-150			"	"	"	"	
LAI-25 (B3K0600-13) Water Sampled: 11/21/03 10:30 Received: 11/21/03 15:50									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	3L01015	12/01/03	12/02/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	61.4 %	50-150			"	"	"	"	
Surrogate: Octacosane	93.5 %	50-150			"	"	"	"	
Influent (B3K0600-14) Water Sampled: 11/21/03 11:00 Received: 11/21/03 15:50									
Diesel Range Hydrocarbons	4.18	0.500	mg/l	2	3L01015	12/01/03	12/03/03	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	1.12	1.00	"	"	"	"	"	"	D-06
Surrogate: 2-FBP	114 %	50-150			"	"	"	"	
Surrogate: Octacosane	90.9 %	50-150			"	"	"	"	
Effluent (B3K0600-15) Water Sampled: 11/21/03 11:10 Received: 11/21/03 15:50									
Diesel Range Hydrocarbons	14.3	2.50	mg/l	10	3L01015	12/01/03	12/03/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	2.15	0.500	"	1	"	"	12/02/03	"	D-10
Surrogate: 2-FBP	100 %	50-150			"	"	"	"	
Surrogate: Octacosane	96.1 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Heanne Garthwaite

Heanne Garthwaite, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

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Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 3485-LAI-012
Project Manager: Cathy Kilday

Reported:
12/10/03 09:37

Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Influent (B3K0600-16) Air Sampled: 11/21/03 11:50 Received: 11/21/03 15:50									
Gasoline Range Hydrocarbons	376	50.0	mg/m ³ Air	5	3K23003	11/23/03	11/23/03	NWTPH Modified	
Benzene	10.0	0.500	"	"	"	"	"	"	
Toluene	21.7	0.500	"	"	"	"	"	"	
Ethylbenzene	2.52	0.500	"	"	"	"	"	"	
Xylenes (total)	19.4	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	109 %	65-132			"	"	"	"	
Surrogate: 4-BFB (PID)	92.1 %	75-136			"	"	"	"	
Gasoline Range Hydrocarbons (v/v)	88.7	11.8	ppmv	5	"	"	"	"	
Benzene (v/v)	3.09	0.154	"	"	"	"	"	"	
Toluene (v/v)	5.68	0.130	"	"	"	"	"	"	
Ethylbenzene (v/v)	0.571	0.114	"	"	"	"	"	"	
Xylenes, total (v/v)	4.39	0.227	"	"	"	"	"	"	
Effluent (B3K0600-17) Air Sampled: 11/21/03 12:00 Received: 11/21/03 15:50									
Gasoline Range Hydrocarbons	13.4	10.0	mg/m ³ Air	1	3K23003	11/23/03	11/23/03	NWTPH Modified	
Benzene	0.301	0.100	"	"	"	"	"	"	
Toluene	ND	0.100	"	"	"	"	"	"	
Ethylbenzene	ND	0.100	"	"	"	"	"	"	
Xylenes (total)	ND	0.200	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	93.3 %	65-132			"	"	"	"	
Surrogate: 4-BFB (PID)	99.9 %	75-136			"	"	"	"	
Gasoline Range Hydrocarbons (v/v)	3.17	2.36	ppmv	"	"	"	"	"	
Benzene (v/v)	0.0928	0.0308	"	"	"	"	"	"	
Toluene (v/v)	ND	0.0261	"	"	"	"	"	"	
Ethylbenzene (v/v)	ND	0.0227	"	"	"	"	"	"	
Xylenes, total (v/v)	ND	0.0454	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

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Project: Conoco Phillips - Renton
Project Number: 3485-LAI-012
Project Manager: Cathy Kilday

Reported:
12/10/03 09:37

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3L03010: Prepared 12/04/03 Using EPA 5030B (P/T)

Blank (3L03010-BLK1)

Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (FID)	47.6		"	48.0		99.2	62-127			
Surrogate: 4-BFB (PID)	49.5		"	48.0		103	72-127			

LCS (3L03010-BS1)

Gasoline Range Hydrocarbons	470	50.0	ug/l	502		93.6	80-120			
Benzene	6.33	0.500	"	7.38		85.8	80-120			
Toluene	32.9	0.500	"	34.9		94.3	80-120			
Ethylbenzene	8.61	0.500	"	8.19		105	80-120			
Xylenes (total)	41.3	1.00	"	39.7		104	80-120			
Surrogate: 4-BFB (FID)	52.0		"	48.0		108	62-127			
Surrogate: 4-BFB (PID)	47.7		"	48.0		99.4	72-127			

LCS Dup (3L03010-BS1)

Gasoline Range Hydrocarbons	477	50.0	ug/l	502		95.0	80-120	1.48	25	
Benzene	6.45	0.500	"	7.38		87.4	80-120	1.88	40	
Toluene	33.5	0.500	"	34.9		96.0	80-120	1.81	40	
Ethylbenzene	8.76	0.500	"	8.19		107	80-120	1.73	40	
Xylenes (total)	42.1	1.00	"	39.7		106	80-120	1.92	40	
Surrogate: 4-BFB (FID)	54.0		"	48.0		112	62-127			
Surrogate: 4-BFB (PID)	48.6		"	48.0		101	72-127			

Matrix Spike (3L03010-MS1)

Source: B3K0600-06

Gasoline Range Hydrocarbons	480	50.0	ug/l	502	ND	95.6	72-119			
Benzene	6.44	0.500	"	7.38	0.0820	86.2	70-129			
Toluene	33.5	0.500	"	34.9	0.182	95.5	73-114			
Ethylbenzene	8.77	0.500	"	8.19	ND	107	82-120			
Xylenes (total)	42.3	1.00	"	39.7	0.380	106	74-118			
Surrogate: 4-BFB (FID)	54.6		"	48.0		114	62-127			
Surrogate: 4-BFB (PID)	49.5		"	48.0		103	72-127			

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Leanne Garthwaite

Leanne Garthwaite, Project Manager

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Project: Conoco Phillips - Renton
Project Number: 3485-LAI-012
Project Manager: Cathy Kilday

Reported:
12/10/03 09:37

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3L03010: Prepared 12/04/03 Using EPA 5030B (P/T)

Matrix Spike Dup (3L03010-MSD1)

Source: B3K0600-06

Gasoline Range Hydrocarbons	487	50.0	ug/l	502	ND	97.0	72-119	1.45	25	
Benzene	6.51	0.500	"	7.38	0.0820	87.1	70-129	1.08	40	
Toluene	33.7	0.500	"	34.9	0.182	96.0	73-114	0.595	40	
Ethylbenzene	8.80	0.500	"	8.19	ND	107	82-120	0.341	40	
Xylenes (total)	42.4	1.00	"	39.7	0.380	106	74-118	0.236	40	
Surrogate: 4-BFB (FID)	54.0		"	48.0		112	62-127			
Surrogate: 4-BFB (PID)	49.5		"	48.0		103	72-127			

Batch 3L04010: Prepared 12/04/03 Using EPA 5030B (P/T)

Blank (3L04010-BLK1)

Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (FID)	48.0		"	48.0		100	62-127			
Surrogate: 4-BFB (PID)	53.2		"	48.0		111	72-127			

LCS (3L04010-BS1)

Gasoline Range Hydrocarbons	448	50.0	ug/l	500		89.6	80-120			
Surrogate: 4-BFB (FID)	53.0		"	48.0		110	62-127			

LCS (3L04010-BS2)

Benzene	8.88	0.500	ug/l	10.0		88.8	80-120			
Toluene	9.13	0.500	"	10.0		91.3	80-120			
Ethylbenzene	9.54	0.500	"	9.80		97.3	80-120			
Xylenes (total)	30.1	1.00	"	30.0		100	80-120			
Surrogate: 4-BFB (PID)	51.7		"	48.0		108	72-127			

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Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

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Project: Conoco Phillips - Renton
Project Number: 3485-LAJ-012
Project Manager: Cathy Kilday

Reported:
12/10/03 09:37

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3L04010: Prepared 12/04/03 Using EPA 5030B (P/T)										
LCS Dup (3L04010-BSD1)										
Gasoline Range Hydrocarbons	436	50.0	ug/l	500		87.2	80-120	2.71	25	
Surrogate: 4-BFB (FID)	50.2		"	48.0		105	62-127			
LCS Dup (3L04010-BSD2)										
Benzene	9.08	0.500	ug/l	10.0		90.8	80-120	2.23	40	
Toluene	9.28	0.500	"	10.0		92.8	80-120	1.63	40	
Ethylbenzene	9.70	0.500	"	9.80		99.0	80-120	1.66	40	
Xylenes (total)	30.7	1.00	"	30.0		102	80-120	1.97	40	
Surrogate: 4-BFB (PID)	52.2		"	48.0		109	72-127			
Matrix Spike (3L04010-MS1) Source: B3K0600-07										
Gasoline Range Hydrocarbons	405	50.0	ug/l	500	27.4	75.5	72-119			
Surrogate: 4-BFB (FID)	50.7		"	48.0		106	62-127			
Matrix Spike (3L04010-MS2) Source: B3K0600-07										
Benzene	9.06	0.500	ug/l	10.0	0.118	89.4	70-129			
Toluene	9.19	0.500	"	10.0	0.151	90.4	73-114			
Ethylbenzene	9.72	0.500	"	9.80	ND	99.2	82-120			
Xylenes (total)	29.6	1.00	"	30.0	ND	98.7	74-118			
Surrogate: 4-BFB (PID)	52.9		"	48.0		110	72-127			
Matrix Spike Dup (3L04010-MSD1) Source: B3K0600-07										
Gasoline Range Hydrocarbons	386	50.0	ug/l	500	27.4	71.7	72-119	4.80	25	Q-01
Surrogate: 4-BFB (FID)	44.9		"	48.0		93.5	62-127			
Matrix Spike Dup (3L04010-MSD2) Source: B3K0600-07										
Benzene	9.04	0.500	ug/l	10.0	0.118	89.2	70-129	0.221	40	
Toluene	9.20	0.500	"	10.0	0.151	90.5	73-114	0.109	40	
Ethylbenzene	9.61	0.500	"	9.80	ND	98.1	82-120	1.14	40	
Xylenes (total)	29.3	1.00	"	30.0	ND	97.7	74-118	1.02	40	
Surrogate: 4-BFB (PID)	52.8		"	48.0		110	72-127			

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Deanne Garthwaite

Deanne Garthwaite, Project Manager

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Project: Conoco Phillips - Renton
Project Number: 3485-LAI-012
Project Manager: Cathy Kilday

Reported:
12/10/03 09:37

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3L08002: Prepared 12/08/03 Using EPA 5030B (P/T)

Blank (3L08002-BLK1)

Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (FID)	43.4		"	48.0		90.4	62-127			
Surrogate: 4-BFB (PID)	45.3		"	48.0		94.4	72-127			

LCS (3L08002-BS1)

Gasoline Range Hydrocarbons	504	50.0	ug/l	502		100	80-120			
Benzene	6.43	0.500	"	7.38		87.1	80-120			
Toluene	34.5	0.500	"	34.9		98.9	80-120			
Ethylbenzene	8.96	0.500	"	8.19		109	80-120			
Xylenes (total)	43.0	1.00	"	39.7		108	80-120			
Surrogate: 4-BFB (FID)	47.5		"	48.0		99.0	62-127			
Surrogate: 4-BFB (PID)	44.4		"	48.0		92.5	72-127			

LCS Dup (3L08002-BSD1)

Gasoline Range Hydrocarbons	516	50.0	ug/l	502		103	80-120	2.35	25	
Benzene	6.43	0.500	"	7.38		87.1	80-120	0.00	40	
Toluene	34.2	0.500	"	34.9		98.0	80-120	0.873	40	
Ethylbenzene	8.90	0.500	"	8.19		109	80-120	0.672	40	
Xylenes (total)	42.4	1.00	"	39.7		107	80-120	1.41	40	
Surrogate: 4-BFB (FID)	48.3		"	48.0		101	62-127			
Surrogate: 4-BFB (PID)	44.5		"	48.0		92.7	72-127			

Matrix Spike (3L08002-MS1)

Source: B3L0012-02

Gasoline Range Hydrocarbons	461	50.0	ug/l	502	ND	91.8	72-119			
Benzene	6.31	0.500	"	7.38	ND	85.5	70-129			
Toluene	34.2	0.500	"	34.9	ND	98.0	73-114			
Ethylbenzene	8.72	0.500	"	8.19	ND	106	82-120			
Xylenes (total)	42.1	1.00	"	39.7	ND	106	74-118			
Surrogate: 4-BFB (FID)	47.2		"	48.0		98.3	62-127			
Surrogate: 4-BFB (PID)	44.7		"	48.0		93.1	72-127			

North Creek Analytical - Bothell

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Project: Conoco Phillips - Renton
Project Number: 3485-LAI-012
Project Manager: Cathy Kilday

Reported:
12/10/03 09:37

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3L08002: Prepared 12/08/03 Using EPA 5030B (P/T)										
Matrix Spike Dup (3L08002-MSD1)					Source: B3L0012-02					
Gasoline Range Hydrocarbons	450	50.0	ug/l	502	ND	89.6	72-119	2.41	25	
Benzene	6.22	0.500	"	7.38	ND	84.3	70-129	1.44	40	
Toluene	33.6	0.500	"	34.9	ND	96.3	73-114	1.77	40	
Ethylbenzene	8.52	0.500	"	8.19	ND	104	82-120	2.32	40	
Xylenes (total)	41.2	1.00	"	39.7	ND	104	74-118	2.16	40	
Surrogate: 4-BFB (FID)	46.9		"	48.0		97.7	62-127			
Surrogate: 4-BFB (PID)	44.5		"	48.0		92.7	72-127			

North Creek Analytical - Bothell

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Jeannie Garthwaite

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Project: Conoco Phillips - Renton
Project Number: 3485-LAI-012
Project Manager: Cathy Kilday

Reported:
12/10/03 09:37

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 3L01015: Prepared 12/01/03 Using EPA 3520C

Blank (3L01015-BLK1)

Diesel Range Hydrocarbons	ND	0.250	mg/l						
Lube Oil Range Hydrocarbons	ND	0.500	"						
Surrogate: 2-FBP	0.282		"	0.320		88.1	50-150		
Surrogate: Octacosane	0.148		"	0.160		92.5	50-150		

LCS (3L01015-BS1)

Diesel Range Hydrocarbons	1.27	0.250	mg/l	2.00		63.5	63-107		
Surrogate: 2-FBP	0.242		"	0.320		75.6	50-150		

LCS Dup (3L01015-BSD1)

Diesel Range Hydrocarbons	1.49	0.250	mg/l	2.00		74.5	63-107	15.9	40
Surrogate: 2-FBP	0.296		"	0.320		92.5	50-150		

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Reported:
 12/10/03 09:37

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX in Air by NWTPH-G and EPA 8021B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3K23003: Prepared 11/23/03 Using EPA 5030B (P/T)										
Blank (3K23003-BLK1)										
Gasoline Range Hydrocarbons	ND	10.0	mg/m ³ Air							
Gasoline Range Hydrocarbons (v/v)	ND	2.36	ppmv							
Benzene	ND	0.100	mg/m ³ Air							
Benzene (v/v)	ND	0.0308	ppmv							
Toluene	ND	0.100	mg/m ³ Air							
Toluene (v/v)	ND	0.0261	ppmv							
Ethylbenzene	ND	0.100	mg/m ³ Air							
Ethylbenzene (v/v)	ND	0.0227	ppmv							
Xylenes (total)	ND	0.200	mg/m ³ Air							
Xylenes, total (v/v)	ND	0.0454	ppmv							
Surrogate: 4-BFB (FID)	9.59		mg/m ³ Air	9.60		99.9	65-132			
Surrogate: 4-BFB (PID)	10.4		"	9.60		108	75-136			
LCS (3K23003-BS1)										
Gasoline Range Hydrocarbons	69.3	10.0	mg/m ³ Air	100		69.3	50-150			
Surrogate: 4-BFB (FID)	10.8		"	9.60		112	65-132			
LCS (3K23003-BS2)										
Benzene	1.14	0.100	mg/m ³ Air	2.00		57.0	50-150			
Toluene	1.13	0.100	"	2.00		56.5	50-150			
Ethylbenzene	1.13	0.100	"	1.96		57.7	50-150			
Xylenes (total)	3.55	0.200	"	6.00		59.2	50-150			
Surrogate: 4-BFB (PID)	10.8		"	9.60		112	75-136			
LCS Dup (3K23003-BSD1)										
Gasoline Range Hydrocarbons	51.1	10.0	mg/m ³ Air	100		51.1	50-150	30.2	50	
Surrogate: 4-BFB (FID)	9.13		"	9.60		95.1	65-132			

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

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Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 3485-LAI-012
Project Manager: Cathy Kilday

Reported:
12/10/03 09:37

Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3K23003: Prepared 11/23/03 Using EPA 5030B (P/T)										
LCS Dup (3K23003-BSD2)										
Benzene	1.34	0.100	mg/m ³ Air	2.00		67.0	50-150	16.1	50	
Toluene	1.32	0.100	"	2.00		66.0	50-150	15.5	50	
Ethylbenzene	1.33	0.100	"	1.96		67.9	50-150	16.3	50	
Xylenes (total)	4.20	0.200	"	6.00		70.0	50-150	16.8	50	
Surrogate: 4-BFB (PID)	10.7		"	9.60		111	75-136			
Duplicate (3K23003-DUP1) Source: B3K0600-17										
Gasoline Range Hydrocarbons	ND	10.0	mg/m ³ Air		13.4			29.6	30	
Surrogate: 4-BFB (FID)	8.58		"	9.60		89.4	65-132			

North Creek Analytical - Bothell

Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

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Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 3485-LAJ-012
Project Manager: Cathy Kilday

Reported:
12/10/03 09:37

Notes and Definitions

- A-01 Xylene hit due to carryover from previous sample.
- D-06 The sample chromatographic pattern does not resemble the fuel standard used for quantitation.
- D-08 Results in the diesel organics range are primarily due to overlap from a gasoline range product.
- D-10 The heavy oil range organics present are due to hydrocarbons eluting primarily in the diesel range.
- I-02 This sample was analyzed outside of the recommended holding time.
- Q-01 The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
- X See case narrative.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

North Creek Analytical - Bothell

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Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

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Environmental Laboratory Network

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B3K0600

Date 11/21/03
 Page 1 of 2

Chain-of-Custody Record

Project Name Conoco Phillips - Renton Project No. 706002
 Project Location/Event Renton / 4Q 2003
 Sampler's Name Erik Gorking
 Project Contact Cathy Kilday
 Send Results To Cathy Kilday

Sample I.D.	Date	Time	Matrix	No. of Containers	Testing Parameters	Observations/Comments	Turnaround Time
HA-18	11/24/03	1125	H2O	4	X X X X X	- 01	☒ Standard ☐ Accelerated ☐ _____
HA-17		1145			X X X X X	- 02	
LA1-13		1345				03	
LA1-14		1405				04	
LA1-15		1430				05	
LA1-10		1400				06	
LA1-11		1510				07	
LA1-12		1535				08	
LA1-2		1550				09	
LA1-3		1555				10	
HA-13	11/24/03	1000				11	
LA1-16		1600				12	
LA1-25		1030				13	
Influent		1100				14	
Effluent		1110				15	
Influent		1150	Air	2	X X	16	

Special Shipment/Handling or Storage Requirements Direct bill Conoco Phillips - EWO # = 3485 LA1012 Method of Shipment Hand Delivery

Relinquished by	Received by
Signature <u>[Signature]</u> Printed Name <u>Mario Lopez</u> Company <u>Landau</u>	Signature <u>[Signature]</u> Printed Name <u>David Dockter</u> Company <u>WNA</u>
Date <u>11/21/03</u> Time <u>1550</u>	Date <u>11/21/03</u> Time <u>1550</u>

Chain-of-Custody Record

Project Name Cause Phillips - Renton Project No. 706002
Project Location/Event Renton / 4th Q2003
Sampler's Name Erik Cracking
Project Contact Cathy Kilday
Send Results To Cathy Kilday

Sample I.D.	Date	Time	Matrix	No. of Containers
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100				

Effluent	11/24/03	1200	Air	2
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11/21/03	1200
----------	------

1200	Air
------	-----

2

Testing Parameters

Turnaround Time
☒ Standard
☐ Accelerate

Observations/Comments

11.

Special Shipment/Handling
or Storage Requirements

Relinquished by _____
Signature

Signature Mario Lopez

Printed Name LANDAU
Company

Date 11/21/03 Time 1550

Special Shipment/Handling
or Storage Requirements

Received by _____
Signature _____

Printed Name: Alan

Printed Name NW
Company

Date 11/21/03 Time 15:50

Relinquished by

Signature

Printed Name

Company

Date _____ Time _____

Received by

Signature _____

Printed Name _____

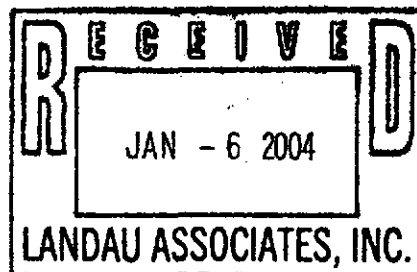
Company

Date _____ Time _____

Method of Shipment Hand Delivery



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02 January 2004

Martin Powers

Landau Associates - Edmonds

Sound View Plaza, 130 2nd Ave S

Edmonds, WA/USA 98020-9129

RE: Conoco Phillips - Renton

Enclosed are the results of analyses for samples received by the laboratory on 12/19/03 16:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanne Garthwaite

Project Manager



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Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 3485-LAI-012
Project Manager: Martin Powers

Reported:
01/02/04 10:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Influent	B3L0669-01	Water	12/18/03 12:45	12/19/03 16:35
Effluent	B3L0669-02	Water	12/18/03 12:55	12/19/03 16:35
Influent	B3L0669-03	Air	12/18/03 13:15	12/19/03 16:35
Effluent	B3L0669-04	Air	12/18/03 13:20	12/19/03 16:35

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Deanne Garthwaite

Deanne Garthwaite, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

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Project: Conoco Phillips - Renton
Project Number: 3485-LAI-012
Project Manager: Martin Powers

Reported:
01/02/04 10:07

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Influent (B3L0669-01) Water Sampled: 12/18/03 12:45 Received: 12/19/03 16:35									
Gasoline Range Hydrocarbons	73100	10000	ug/l	200	3L22007	12/22/03	12/22/03	NWTPH-Gx/8021B	
Benzene	4060	100	"	"	"	"	"	"	
Toluene	14500	100	"	"	"	"	"	"	
Ethylbenzene	1690	100	"	"	"	"	"	"	
Xylenes (total)	11800	200	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	101 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	106 %	72-127			"	"	"	"	
Effluent (B3L0669-02) Water Sampled: 12/18/03 12:55 Received: 12/19/03 16:35									
Gasoline Range Hydrocarbons	7550	2500	ug/l	50	3L22007	12/22/03	12/22/03	NWTPH-Gx/8021B	
Benzene	284	25.0	"	"	"	"	"	"	
Toluene	1110	25.0	"	"	"	"	"	"	
Ethylbenzene	135	25.0	"	"	"	"	"	"	
Xylenes (total)	1080	50.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	101 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	106 %	72-127			"	"	"	"	

North Creek Analytical - Bothell

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Jeanne Garthwaite, Project Manager

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Project: Conoco Phillips - Renton
Project Number: 3485-LAI-012
Project Manager: Martin Powers

Reported:
01/02/04 10:07

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Influent (B3L0669-01) Water Sampled: 12/18/03 12:45 Received: 12/19/03 16:35									
Diesel Range Hydrocarbons	34.8	5.00	mg/l	20	3L30019	12/30/03	12/31/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 2-FBP	%	50-150			"	"	"	"	S-01
Surrogate: Octacosane	528 %	50-150			"	"	"	"	S-06
Effluent (B3L0669-02) Water Sampled: 12/18/03 12:55 Received: 12/19/03 16:35									
Diesel Range Hydrocarbons	22.1	2.50	mg/l	10	3L30019	12/30/03	12/31/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	5.00	"	"	"	"	"	"	
Surrogate: 2-FBP	148 %	50-150			"	"	"	"	
Surrogate: Octacosane	735 %	50-150			"	"	"	"	S-06

North Creek Analytical - Bothell

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Deanne Garthwaite

Deanne Garthwaite, Project Manager

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Project: Conoco Phillips - Renton
Project Number: 3485-LAI-012
Project Manager: Martin Powers

Reported:
01/02/04 10:07

Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Influent (B3L0669-03) Air Sampled: 12/18/03 13:15 Received: 12/19/03 16:35

Gasoline Range Hydrocarbons	497	25.0	mg/m ³ Air	2.5	3L21007	12/21/03	12/21/03	NWTPH Modified	
Benzene	14.8	0.250	"	"	"	"	"	"	
Toluene	64.4	0.500	"	5	"	"	12/21/03	"	
Ethylbenzene	9.27	0.250	"	2.5	"	"	12/21/03	"	
Xylenes (total)	54.8	0.500	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	119 %	65-132			"	"	"	"	
Surrogate: 4-BFB (PID)	101 %	75-136			"	"	"	"	
Gasoline Range Hydrocarbons (v/v)	117	5.90	ppmv	2.5	"	"	"	"	
Benzene (v/v)	4.57	0.0770	"	"	"	"	"	"	
Toluene (v/v)	16.8	0.130	"	5	"	"	12/21/03	"	
Ethylbenzene (v/v)	2.10	0.0568	"	2.5	"	"	12/21/03	"	
Xylenes, total (v/v)	12.4	0.114	"	"	"	"	"	"	

Effluent (B3L0669-04) Air Sampled: 12/18/03 13:20 Received: 12/19/03 16:35

Gasoline Range Hydrocarbons	ND	10.0	mg/m ³ Air	1	3L21007	12/21/03	12/21/03	NWTPH Modified	
Benzene	ND	0.100	"	"	"	"	"	"	
Toluene	ND	0.100	"	"	"	"	"	"	
Ethylbenzene	ND	0.100	"	"	"	"	"	"	
Xylenes (total)	ND	0.200	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	83.3 %	65-132			"	"	"	"	
Surrogate: 4-BFB (PID)	103 %	75-136			"	"	"	"	
Gasoline Range Hydrocarbons (v/v)	ND	2.36	ppmv	"	"	"	"	"	
Benzene (v/v)	ND	0.0308	"	"	"	"	"	"	
Toluene (v/v)	ND	0.0261	"	"	"	"	"	"	
Ethylbenzene (v/v)	ND	0.0227	"	"	"	"	"	"	
Xylenes, total (v/v)	ND	0.0454	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

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Project: Conoco Phillips - Renton
Project Number: 3485-LAI-012
Project Manager: Martin Powers

Reported:
01/02/04 10:07

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 3L22007: Prepared 12/22/03 Using EPA 5030B (P/T)									
Blank (3L22007-BLK1)									
Gasoline Range Hydrocarbons	ND	50.0	ug/l						
Benzene	ND	0.500	"						
Toluene	ND	0.500	"						
Ethylbenzene	ND	0.500	"						
Xylenes (total)	ND	1.00	"						
Surrogate: 4-BFB (FID)	47.0		"	48.0		97.9	62-127		
Surrogate: 4-BFB (PID)	49.3		"	48.0		103	72-127		
LCS (3L22007-BS1)									
Gasoline Range Hydrocarbons	502	50.0	ug/l	500		100	80-120		
Benzene	6.51	0.500	"	7.35		88.6	80-120		
Toluene	33.5	0.500	"	34.8		96.3	80-120		
Ethylbenzene	8.80	0.500	"	8.20		107	80-120		
Xylenes (total)	41.9	1.00	"	39.6		106	80-120		
Surrogate: 4-BFB (FID)	55.5		"	48.0		116	62-127		
Surrogate: 4-BFB (PID)	48.1		"	48.0		100	72-127		
LCS Dup (3L22007-BSD1)									
Gasoline Range Hydrocarbons	454	50.0	ug/l	500		90.8	80-120	10.0	25
Benzene	6.52	0.500	"	7.35		88.7	80-120	0.153	40
Toluene	33.5	0.500	"	34.8		96.3	80-120	0.00	40
Ethylbenzene	8.82	0.500	"	8.20		108	80-120	0.227	40
Xylenes (total)	42.0	1.00	"	39.6		106	80-120	0.238	40
Surrogate: 4-BFB (FID)	49.4		"	48.0		103	62-127		
Surrogate: 4-BFB (PID)	47.8		"	48.0		99.6	72-127		
Matrix Spike (3L22007-MS1) Source: B3L0623-13									
Gasoline Range Hydrocarbons	402	50.0	ug/l	500	11.6	78.1	72-119		
Benzene	6.41	0.500	"	7.35	0.0990	85.9	70-129		
Toluene	32.9	0.500	"	34.8	0.544	93.0	73-114		
Ethylbenzene	8.32	0.500	"	8.20	0.139	99.8	82-120		
Xylenes (total)	38.7	1.00	"	39.6	0.665	96.0	74-118		
Surrogate: 4-BFB (FID)	50.7		"	48.0		106	62-127		
Surrogate: 4-BFB (PID)	50.1		"	48.0		104	72-127		

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Deanne Garthwaite

Deanne Garthwaite, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

Page 5 of 10



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 3485-LAI-012
Project Manager: Martin Powers

Reported:
01/02/04 10:07

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3L22007: Prepared 12/22/03 Using EPA 5030B (P/T)										
Matrix Spike Dup (3L22007-MSD1)					Source: B3L0623-13					
Gasoline Range Hydrocarbons	424	50.0	ug/l	500	11.6	82.5	72-119	5.33	25	
Benzene	6.59	0.500	"	7.35	0.0990	88.3	70-129	2.77	40	
Toluene	33.7	0.500	"	34.8	0.544	95.3	73-114	2.40	40	
Ethylbenzene	8.65	0.500	"	8.20	0.139	104	82-120	3.89	40	
Xylenes (total)	40.1	1.00	"	39.6	0.665	99.6	74-118	3.55	40	
Surrogate: 4-BFB (FID)	49.6		"	48.0		103	62-127			
Surrogate: 4-BFB (PID)	48.4		"	48.0		101	72-127			

North Creek Analytical - Bothell

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Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

Page 6 of 10



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907.563.9200 fax 907.563.9210

Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 3485-LAI-012
Project Manager: Martin Powers

Reported:
01/02/04 10:07

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	----------------	-----	--------------	-------

Batch 3L30019: Prepared 12/30/03 Using EPA 3510C

Blank (3L30019-BLK1)

Diesel Range Hydrocarbons	ND	0.250	mg/l
lubricating Oil Range Hydrocarbons	ND	0.500	"

Surrogate: 2-FBP	0.163	"	0.320	50.9	50-150
Surrogate: Octacosane	0.114	"	0.160	71.2	50-150

LCS (3L30019-BS1)

Diesel Range Hydrocarbons	1.54	0.250	mg/l	2.00	77.0	63-107
Surrogate: 2-FBP	0.232	"	0.320	72.5	50-150	

LCS Dup (3L30019-BSD1)

Diesel Range Hydrocarbons	1.50	0.250	mg/l	2.00	75.0	63-107	2.63	40
Surrogate: 2-FBP	0.207	"	0.320	64.7	50-150			

North Creek Analytical - Bothell

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Leanne Garthwaite

Leanne Garthwaite, Project Manager

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503.906.9200 fax 503.906.9210
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541.383.9310 fax 541.382.7588
Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 3485-LAI-012
Project Manager: Martin Powers

Reported:
01/02/04 10:07

Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	-----------	--------	-----	-----------	-------

Batch 3L21007: Prepared 12/21/03 Using EPA 5030B (P/T)

Blank (3L21007-BLK1)

Gasoline Range Hydrocarbons	ND	10.0	mg/m ³ Air							
Gasoline Range Hydrocarbons (v/v)	ND	2.36	ppmv							
Benzene	ND	0.100	mg/m ³ Air							
Benzene (v/v)	ND	0.0308	ppmv							
Toluene	ND	0.100	mg/m ³ Air							
Toluene (v/v)	ND	0.0261	ppmv							
Ethylbenzene	ND	0.100	mg/m ³ Air							
Ethylbenzene (v/v)	ND	0.0227	ppmv							
Xylenes (total)	ND	0.200	mg/m ³ Air							
Xylenes, total (v/v)	ND	0.0454	ppmv							
Surrogate: 4-BFB (FID)	9.59		mg/m ³ Air	9.60		99.9	65-132			
Surrogate: 4-BFB (PID)	9.89		"	9.60		103	75-136			

LCS (3L21007-BS1)

Gasoline Range Hydrocarbons	65.2	10.0	mg/m ³ Air	100		65.2	50-150			
Surrogate: 4-BFB (FID)	10.1		"	9.60		105	65-132			
Benzene	1.37	0.100	mg/m ³ Air	2.00		68.5	50-150			
Toluene	1.32	0.100	"	2.00		66.0	50-150			
Ethylbenzene	1.28	0.100	"	1.96		65.3	50-150			
Xylenes (total)	4.08	0.200	"	6.00		68.0	50-150			
Surrogate: 4-BFB (PID)	10.5		"	9.60		109	75-136			

LCS Dup (3L21007-BSD1)

Gasoline Range Hydrocarbons	73.1	10.0	mg/m ³ Air	100		73.1	50-150	11.4	50	
Surrogate: 4-BFB (FID)	9.73		"	9.60		101	65-132			

North Creek Analytical - Bothell

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Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

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Landau Associates - Edmonds
 Sound View Plaza, 130 2nd Ave S
 Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
 Project Number: 3485-LAI-012
 Project Manager: Martin Powers

Reported:
 01/02/04 10:07

Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3L21007: Prepared 12/21/03 Using EPA 5030B (P/T)										
LCS Dup (3L21007-BSD2)										
Benzene	1.55	0.100	mg/m ³ Air	2.00		77.5	50-150	12.3	50	
Toluene	1.50	0.100	"	2.00		75.0	50-150	12.8	50	
Ethylbenzene	1.48	0.100	"	1.96		75.5	50-150	14.5	50	
Xylenes (total)	4.65	0.200	"	6.00		77.5	50-150	13.1	50	
Surrogate: 4-BFB (PID)	10.1		"	9.60		105	75-136			
Duplicate (3L21007-DUP1) Source: B3L0668-01										
Gasoline Range Hydrocarbons	ND	10.0	mg/m ³ Air		1.59				30	
Surrogate: 4-BFB (FID)	8.32		"	9.60		86.7	65-132			

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Leanne Garthwaite

Leanne Garthwaite, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network

Page 9 of 10



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
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Landau Associates - Edmonds
Sound View Plaza, 130 2nd Ave S
Edmonds, WA/USA 98020-9129

Project: Conoco Phillips - Renton
Project Number: 3485-LAI-012
Project Manager: Martin Powers

Reported:
01/02/04 10:07

Notes and Definitions

S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interferences.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

North Creek Analytical - Bothell

Jeanne Garthwaite, Project Manager

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North Creek Analytical, Inc.
Environmental Laboratory Network

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APPENDIX D

Product Disposal Bills of Lading



7343 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON 98108
(206) 832-3000
FAX: (206) 832-3030
24 HOUR EMERGENCY PHONE: 1-800-424-9300

31692

BILL OF LADING AND GALLONAGE TICKET

SHIPPER/GENERATOR <u>Cowco Philes (Lawson Assoc.)</u>		CONTACT	JOB # <u>30/54874.10</u>
ADDRESS <u>Lind Ave</u>		PHONE#	LOAD # <u>01</u>
CITY, STATE, ZIP <u>Repton WA</u>		<u>Repton 206</u>	DATE <u>10-23-03</u>
CARRIER <u>EST</u>		PHONE# <u>832-3052</u>	DOCUMENT #
CONSIGNEE <u>Emerald Petm Services</u>		CONTACT <u>K-P 206</u>	TRUCK # <u>792</u>
ADDRESS <u>1500 Airport Way So</u>		PHONE# <u>6221090</u>	PRODUCT TYPE
CITY, STATE, ZIP <u>Seattle WA</u>			EST. GALLONS <u>15 3/4</u>

HM	ITEM #	U.S. DOT DESCRIPTION	#	TYPE	QTY.
	A	<u>Flammable Liquid Abs 1203</u>	<u>1</u>	<u>TT</u>	<u>548</u>
	B	<u>P6II EGR 128</u>			
	C				
	D				

A. WPQ # OPD - WPT-CV DISP. CODE: 602902 C. WPQ # _____ DISP. CODE: _____
B. WPQ # _____ DISP. CODE: _____ D. WPQ # _____ DISP. CODE: _____

DISPOSAL

DUMP DELAY TIME _____

WASH OUT: YES () NO ()

TIME IN _____ TIME OUT _____

E. WATER _____ GALLONS LOCATION _____ TEST _____ DISP. CODE _____

F. SOLIDS _____ GALLONS LOCATION _____ TEST _____ DISP. CODE _____

_____ % SUSPENDED SOLIDS BY CENTRIFUGE + _____ GALS SEDIMENT

G. OIL/DIESEL/GAS _____ GALLONS LOCATION _____ TEST _____ DISP. CODE _____

HOC'S _____ PCB'S _____ B.S.&W. _____ API _____ LAB: Y / N

Shipper's Certification: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway, vessel and rail according to applicable international and national government regulations and this material is not regulated as a hazardous waste in accordance with WAC 173-303, 40 CFR Part 261 or 40 CFR Part 761.

X Christine Kimmel
SHIPPER (PRINT NAME)
X Tony Luder
CARRIER - DRIVER 1 (PRINT NAME)
X _____
CARRIER - DRIVER 2 (PRINT NAME)
X _____
CONSIGNEE (PRINT NAME)

X Christine Kimmel
SIGNATURE
X Tony Luder
SIGNATURE
X _____
SIGNATURE
X _____
SIGNATURE

DATE: 10/23/03
DATE: 10-23-03
DATE: _____
DATE: _____

COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
WA D 0 0 0 6 4 1 3 3 0

Manifest
Document No.
63032

2. Page 1
of 1

3. Generator's Name and Mailing Address
CONOCO PHILIPS
2423 LIND AVE SW
RENTON, WA 98055

4. Generator's Phone (253) 228-6142

5. Transporter 1 Company Name
EMERALD SERVICES, INC.

6. US EPA ID Number
WA D 0 5 8 3 6 4 6 4 7

A. Transporter's Phone
(206) 832-3000

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
CONOCO PHILLIPS
3901 UNICK ROAD
FERNDALE, WA 98246

10. US EPA ID Number
WA D 0 0 9 2 5 0 3 6 0

C. Facility's Phone
(360) 384-8331

11. Waste Shipping Name and Description

12. Containers
No. Type

13. Total
Quantity

14. Unit
Wt/Vol

a. MATERIALS NOT REGULATED BY E.O.T. (NON-HAZARDOUS
WATER/GAS MIXTURE), (TRANS MIX)

TT 1 TT 5.00 G

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

a) A WATER AND GASOLINE MIXTURE

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

CONTAINS NO PCB'S USED LUBE OILS, SOLVENTS OR RCRA, DW OR HAZARDOUS WASTE

BATCH 307

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

JAMES FREDRICKSON

Signature

James Fredrickson

Month Day Year

10 9 0 8 0 3

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

SOTHORN KITHIM

Signature

Sothorn Kithim

Month Day Year

0 9 0 8 0 3

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

B. J. J. J.

Month Day Year

0 9 0 8 0 3

TRANSPORTER #1

NON-HAZARDOUS
WASTE MANIFEST1. Generator's US EPA ID No.
WA D 0 0 9 2 5 0 3 6 0Manifest
Document No.2. Page
of 1

6403R

3. Generator's Name and Mailing Address
CONOCO PHILLIPS
2423 LIND AVE SW
BENTON, WA 98055

4. Generator's Phone (253) 246-6142

5. Transporter 1 Company Name
EMERALD SERVICES, INC.6. US EPA ID Number
WA D 0 5 8 3 6 4 6 4 7

A. Transporter's Phone

(206) 832-300

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
CONOCO PHILLIPS

3901 UNICK ROAD

FERNDALE, WA 98248

10. US EPA ID Number

WA D 0 0 9 2 5 0 3 6 0

C. Facility's Phone

(360) 384-8331

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total
Quantity14. Unit
Wt/Vola. MATERIALS NOT REGULATED BY D.O.T. (NON-HAZARDOUS
WATER/GAS MIXTURE),

1. 11 500 G

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

a) A WATER AND GASOLINE MIXTURE

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

CONTAINS NO PCB'S USED LUBE OILS, SOLVENTS OR RCRA, DM OR HAZARDOUS WASTE
(TRANSMIX)

BATCH # 311

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

JAMES FREDRICKSON

Signature

James Fredrickson

Month Day Year

09 24 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

NALU KOLLARS

Signature

NALU KOLLARS

Month Day Year

09 24 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

TRANSPORTER # 1

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. C E S Q G		Manifest Document No. 9 9 2 7 0		2. Page 1 of 1	
3. Generator's Name and Mailing Address LANDAU & ASSOCIATES 130 2ND AVENUE SOUTH EDMONDS, WA 98020							
4. Generator's Phone ((425) 778-0907							
5. Transporter 1 Company Name EMERALD SERVICES, INC.		6. US EPA ID Number W A D 0 5 8 3 6 4 6 4 7		A. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number 1		B. Transporter 1 Phone (206) 832-3000			
				C. State Transporter's ID			
				D. Transporter 2 Phone			
9. Designated Facility Name and Site Address EMERALD PETROLEUM SERVICES, 1500 AIRPORT WAY S. 1500 W. 12th ST VANCOUVER 98146 SEATTLE, WA 98134		10. US EPA ID Number W A D 0 5 8 3 6 7 1 5 2		E. State Facility's ID			
				F. Facility's Phone (206) 832-3090			
11. WASTE DESCRIPTION				12. Containers No. Type		13. Total Quantity	
a. MATERIAL NOT REGULATED BY D.O.T.						14. Unit Vol./Vol.	
				TT		450 G	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above a) G02908 PURGE WATER/BALLAST WATER				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information I certify that this material is not regulated nor mixed with waste regulated as a Dangerous Waste under WAC173-303,40CFR261 or 40CFR761. All used oil meets the definition under WAC173-303-515 and 40CFR279. Generator agrees to indemnify and hold harmless Emerald Services or its subsidiary for any damages, costs, attorneys and expert fees arising from or related to the above certification.							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name Brian Tracy				Signature [Signature]		Date Month Day Year 9 / 17 / 03	
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed/Typed Name Ray Hammess				Signature [Signature]		Date Month Day Year 9 / 16 / 03	
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Name				Signature		Date Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name TED HARE				Signature [Signature]		Date Month Day Year 9 / 16 / 03	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY



SECOR
INTERNATIONAL
INCORPORATED

www.secor.com
12034 134th Court Northeast
Suite 102
Redmond, WA 98052
425 372 1600 TEL
425 372 1650 FAX

August 19, 2005

Mr. Marty Cramer
ConocoPhillips – Risk Management and Remediation
5528 NW Doane Avenue
Portland, Oregon 97229

RE: Work Plan for System Modifications and Improvements
ConocoPhillips Facility # 3485 (Renton Terminal)
2423 Lind Avenue, Renton, Washington

Dear Mr. Cramer:

SECOR International, Inc. (SECOR) has prepared the following Work Plan for modifications and improvements for the operating remediation system at the ConocoPhillips Renton Terminal in Renton, Washington (site).

The purpose of the work is to improve the effectiveness of ongoing remedial efforts at the site.

Background and Purpose

The remediation system was installed by Landau Associates Inc. (LAI) and activated in February 2003 to address subsurface impacts resulting from a January 2002 release. System components were relocated in early 2005 by LAI to an area outside the above ground storage tanks (AST) containment berm. LAI completed system modifications in conjunction with relocation activities. SECOR assumed management of system in March 2005.

Since the system was installed, approximately 75% of the product initially released to the subsurface has been recovered. The purpose of the system modifications and improvements outlined in this work plan is to improve the remedial efficiency of the system and expedite site closure.

The work outlined in this plan is designed to achieve the following objectives:

- Increase overall system efficiency by increasing the rate of groundwater removal from the subsurface by deepening recovery wells and adding recovery points;
- Reduce system downtime by completing preventative maintenance work on groundwater pumps, replacing the compressor and installing an autodialer.

- Address ConocoPhillip's safety concerns by re-routing the liquid natural gas (LNG) line which runs from the natural gas AST to the oxidizer and modifying system components.

Scope of Work

Deepening the Recovery Wells

The remediation system is designed to recover product and impacted groundwater and mitigate off-site impacts by pumping fluids from the subsurface. The recovery wells approximately encircle Tank No.2 (the source of the January 2003 release) and are situated south of Tank No.2 both on-site and off-site. During first and second quarter 2005 nine recovery wells were operated. The following table indicates water column measured in the operating recovery wells between early June and mid-July 2005. Figure 2, attached, shows the site layout and well locations.

Well	Total Depth of Well	Depth to Water*, Water Column and Date Measured					
		6/01/05	Water Column	6/20/05	Water Column	7/20/05	Water Column
RW-2	11.7	7.6	4.1	10.4	1.3	10.9	0.8
LAI-5	14.7	9.7	5.0	11.4	3.3	11.5	3.2
LAI-4	13.4	8.1	5.3	10.0	3.4	10.4	3.0
LAI-6	12.0	7.7	4.3	9.2	2.8	9.4	2.6
LAI-7	13.6	8.7	4.9	10.4	3.2	10.9	2.7
LAI-8	16.4	8.9	7.5	10.5	5.9	11.0	5.4
LAI-9	13.4	8.1	5.3	9.8	3.6	10.1	3.3
HW-1W	7.9	4.8	3.1	6.3	1.6	6.4	1.5
HW-1E	7.4	4.3	3.1	6.8	0.6	6.9	0.5

* Depth to groundwater measurements measured approximately 30 minutes following shut down of the remediation system

The downhole pneumatic pumps installed in the recovery wells require a minimum water column of 52 inches (4.3 feet) to pump fluids. It is evident based on depth to water readings shown in the above table that the minimum column requirement is not being achieved in eight of nine pumping wells as measured in July 2005. In order to increase the groundwater removal rate the water column in the current pumping wells needs to be increased. This can be achieved by deepening the wells by between seven and ten feet per well depending on the average lowest water column measurement. The wells can be deepened by removing the current well and re-drilling the wells to the deeper depth. Recovery wells HW-1W and HW-1E can be deepened and doing so will increase recovery from the trench by essentially creating a deeper sump at each end of the recovery trench.

The purpose of the recovery trench is to prevent off-site migration of impacted groundwater to the south. It is anticipated that the effectiveness of the recovery trench will be increased by deepening recovery wells HW-1W and HW-1E (situated at each end of the trench). In addition to deepening HW-1W and HW-1E, wells LAI-2 and LAI-3 (situated just north of the

trench) will be deepened and fitted as recovery wells should off-site migration of impacted groundwater continue to be an issue following implementation of the modifications. Should LAI-2 and LAI-3 be fitted as recovery wells, the pneumatic pumps installed should be shorter in length than the pumps currently employed in the existing recovery wells. Shorter length pumps allow groundwater pumping with a water column of 37 inches (3.1 feet) versus 52 inches (4.3 feet) for the longer pumps currently employed.

In addition to deepening the wells cited above, three of the other on-site wells (RW-3, RW-5 and RW-7) should be deepened and used as contingency recovery wells to be employed should groundwater recovery efforts need to be focused in the immediate vicinity of Tank No.2. These wells were initially installed as recovery wells. Should it be necessary to include them in the network of pumping recovery wells, existing pneumatic pumps in currently employed recovery wells can be switched over and used in wells RW-3, RW-5 and/or RW-7.

In summary, a total of fourteen recovery wells will be deepened by between six and nine feet. Two of these wells, LAI-2 and LAI-3, may be subsequently fitted with pneumatic pumps should off-site migration of impacted groundwater continue to be an issue.

Treatment System Upgrades/Modifications

Upgrades and modifications will be completed to the treatment system to reduce system downtime and address ConocoPhillip's safety concerns.

The following will be completed:

- Compressor Replacement

The Campbell Hausfeld compressor currently employed as part of the treatment system has become increasingly unreliable over the past several months. It is likely that the compressor is at the end of its useful life. H2 Oil Recovery Equipment, Inc. (H2 Oil) specified an Ingersoll-Rand 7.5 hp, 230v, single phase 2-stage compressor to replace the current unit.

- Install Gauge Downstream of Surge Tank/Oil Water Separator

A flow meter will be installed on the discharge side of the transfer pump used to pump water from the surge tank to the air stripper. The purpose of this gauge is to measure flow rate into the air stripper and balance the flow into the stripper with the flow out of the stripper. The current configuration (no gauge) does not allow measurement of flow into the stripper and it is not possible to determine the reason for high alarms on the air stripper (i.e. is the high alarm due to an imbalance between inflow and outflow). The gauge will simplify adjustments to the transfer pump's flow rate and balance flow rate through the air stripper.

- Maintenance of existing downhole pumps

The existing downhole pumps are 4-inch diameter QED AP-4TL controllerless total fluids recovery pumps. The pumps were installed in February 2003. The pumps are reliable if

regularly maintained. SECOR understands that the wells have not been fully serviced since their installation. The pumps will have to be removed prior to efforts to deepen the wells by re-drilling. It is recommended that the pumps be fully serviced when they are removed prior to drilling activities. Servicing the pumps will result in extension of their useful lives.

- Install Wireless Autodialer

The remediation system has historically operated intermittently. The remediation system is shutdown for a variety of issues including high alarms on the air stripper and thermal overload trips on the compressor. There is currently no mechanism in place to notify SECOR personnel of a system shutdown. SECOR personnel are made aware of a system shutdown only during a site visit. Installation of an autodialer would allow notification of SECOR personnel immediately upon system shutdown. This would allow SECOR personnel to mobilize to the site shortly after the system shuts down and make repairs to bring the system back on line. This would enhance remedial efficiency by decreasing system downtime.

The autodialer specified is a Sensaphone 1104 autodialer equipped with two inputs; oxidizer fail and water treatment system fail.

- Re-route the LNG Line

During a recent safety audit conducted by Conocophillips and the Renton Fire Department it was noted that there was the possibility for damage to a liquid natural gas line (LNG) that runs from the LNG above ground storage tank (AST) to the oxidizer. To minimize potential damage to the LNG line, the line will be routed to the rear of the AST and run on the inside of curb to the rear of the oxidizer. The new line route is shown on Figure 2.

Time Line

The following tasks will be completed during the week of August 22 2005;

- Compressor Replacement
- Install Gauge Downstream of Surge Tank/Oil Water Separator
- Removal/Maintenance of Existing Downhole Pumps
- Install Wireless autodialer
- Re-route the LNG line

Drilling to deepen the recovery wells will be completed the following week (August 29th). Drilling work is expected to require three or four days and will be completed September 1st.

Re-installation of the downhole pumps and installation of the three new pumps (including plumbing into the network) will be completed during the week of September 12th.

Costs

A spreadsheet outlining costs is provided as an attachment.

Deliverable

A report summarizing system modifications and improvements will be generated following completion of the work. The report will consist of an explanation of site activities and boring logs detailing construction of the deepened recovery wells.

Sincerely,
SECOR International Incorporated



Marc Sauze, P.E.
Senior Engineer

Attachment 1:

Cost Spreadsheet Work Order Number 3485SEC009

Figure 1: Site Location Map

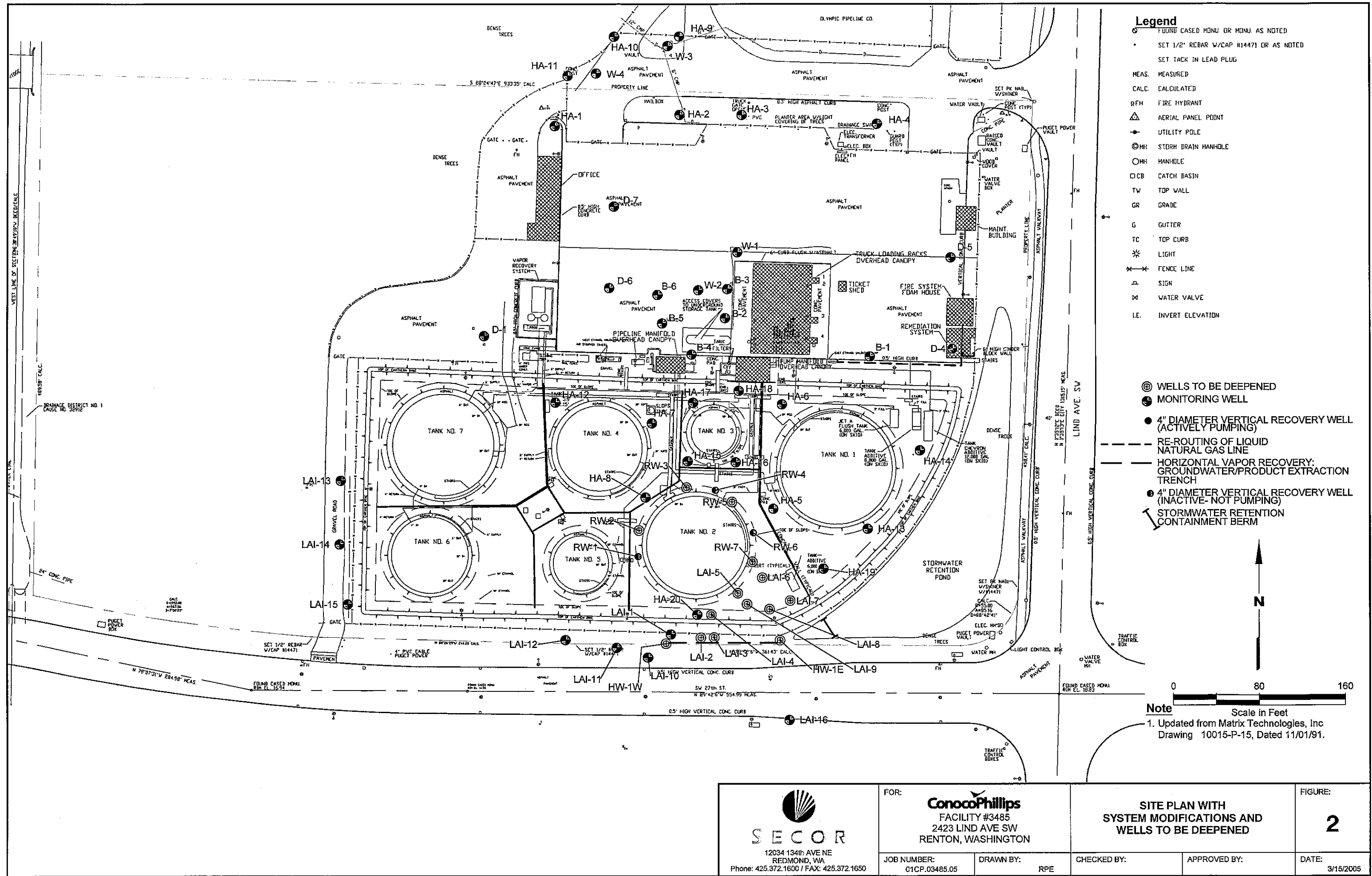
Figure 2: Site Plan With System Modifications and Wells to be Deepened

ATTACHMENT 1

INSTRUCTIONS: NOTE! If opened from EDMS, save spreadsheet and close EDMS before using. ASSIGN A "WORK ORDER NUMBER" USING THE NAMING CONVENTION BELOW. 4-digit "WNO" Project Number + 3-Letter Company Code + sequential 3-digit number starting with 001 FILL IN YELLOW-HIGHLIGHTED AREAS. USE "Hide Unused Prices" BUTTON TO SHRINK FORM* (IF YOU NEED TO REVISE SPREADSHEET, USE "Unhide Unit Prices" BUTTON.) * "Hide/Unhide" buttons work only with Excel 2000 or newer versions. Earlier versions (e.g. Excel97) will calculate totals, but will not hide unused prices. SAVE COMPLETED FORM IN LIVELINK UNDER "WORK ORDER NUMBER" FILE NAME.				SECOR International Incorporated 12034 134th Court Northeast, Suite 102 Redmond, WA 98052 Western Region Work Order Number: 3485SEC009			
Contractor Project Office Location: Redmond, WA Contractor Proj. Manager: Marc Sauze Contractor Proj. Number: 01CP.003485.06							
ConocoPhillips Site Manager: Marty Cramer ConocoPhillips WNO Project Number: WNO.3485 ConocoPhillips Facility No.: 3485 Facility Address: Renton Terminal City, State, Zip: Renton, WA Phase Start Date: 08/15/2005 Est. Phase Completion Date: 12/31/2005							
Place x: ConocoPhillips Action Phases (Check one)							
PHASE I. Tank Removal X PHASE II (A1). On-site Initial Investigation PHASE II (A2). On-site Supplemental Investigation PHASE II (B1). Off-site Initial Investigation PHASE II (B2). Off-site Supplemental Investigation PHASE III. Remedial Testing/CAP/Risk Assessment PHASE IV. Remedial Design, Permitting/Remedial Well Install				PHASE V. Remedial Const./System Installation PHASE VI. Remedial System Startup PHASE VII. Remedial System O&M PHASE VIII. GW Monitoring/Free Product Removal PHASE IX. Closure/System Decommissioning PHASE X. Miscellaneous Associated Services			
General Description of Work to be Conducted in this AWO: System Modifications and Improvements Scope of Work described in Work Plan for System Modifications dated August 11th 2005. Costs based on H2 Oil quote dated 8/3/2005 and Cascade Drilling Quote dated August 19th, 2005 Deepen fourteen wells to increase fluids recovery. System modifications : Compressor replacement, install additional gauge, maintenance of existing pneumatic pumps, install wireless autodialer, re-route LNG Line Professional well survey based on estimate of \$350 Autodialer wiring by DW Close Co., Electrical Contractor - costs based on DW Close Co. rate quote dated 3/18/05. Use site visit budgetted in previous work order for regular O&M (3485SEC004) SECOR to retain Custom Backhoe employee as sub to help with wellhead work. Budget 4 - 8 hr days at \$70/hr = \$240 + \$500 for materials. Total: \$2,740. Costs included in H2Oil's costs in unit 30.02 Structural Survey of Canopy covering for remediation system estimated at \$2,000 costs in unit 33.03 (if needed) NOTE: SIGNATURE BLOCK ONLY NECESSARY WHEN NOT USING ELECTRONIC APPROVAL, I.e. CORE							
FOR: ConocoPhillips BY: Marty Cramer				FOR: SECOR International BY: Marc Sauze			
App'd: _____ Date _____ (Signature)				App'd: _____ Date _____ (Signature)			
App'd: _____ Date _____ (Signature)				App'd: _____ Date _____ (Signature)			
TASK	DESCRIPTION	UNIT	UNIT PRICE	NO. OF UNITS	Markup (%)	Sub Totals	SECTION TOTAL
SECTION 01: PUBLIC RELATIONS SERVICES							0.00
SECTION 02: REGULATORY OVERSIGHT SERVICES							0.00
SECTION 03: SPECIAL MEETINGS AND SERVICES							
	EDD - GROUNDWATER MONITORING AND SAMPLING						
	EDD - SOIL BORING ASSESSMENT						
	EDD - GROUNDWATER MONITORING WELL ASSESSMENT						0.00
SECTION 04: TRUST FUND APPLICATION PREPARATION SERVICES							0.00
SECTION 05: PROJECT TRANSITION SERVICES							0.00
SECTION 10: GENERAL CONSULTING SERVICES							
	GENERAL REQUIRED CONSULTING						
	REQUIRED CONSULTANT TRAVEL						0.00
SECTION 11: PRE-DELINEATION ASSESSMENT SERVICES							
STANDARD PRE-DELINEATION ASSESSMENT SERVICES							
11.02	Site Reconnaissance	per item	\$ 280.00	1		280.00	
PACKAGED PRE-DELINEATION ASSESSMENT SERVICES							
OTHER PRE-DELINEATION ASSESSMENT SERVICES							280.00
SECTION 12: DELINEATION ASSESSMENT SERVICE							
DELINEATION ASSESSMENT CONSULTING							
12.02	Delineation Consulting (Well Construction)	per day	\$ 836.00	5		4,180.00	
12.04	Delineation Consulting (Well Development 1 - 50' bgs)	per well	\$ 140.00	14		1,960.00	
OTHER DELINEATION ASSESSMENT SERVICES							
12.11	Utility Locator Service	cost plus markup		\$ 150.00	3.00	154.50	
12.12	Site Visit	per event	\$ 180.00	1		180.00	
12.14	Professional Survey	cost plus markup		\$ 350.00	3.00	360.50	
12.15	Traffic Control Plan	per item	\$ 200.00	1		200.00	
12.16	Traffic Control	per day	\$ 240.00	4		960.00	
DELINEATION ASSESSMENT REPORTS							
12.22	Delineation Assessment Report (Groundwater)	per item	\$ 1,360.00	1		1,360.00	8,335.00
SECTION 13: RISK EVALUATION SERVICES							
ASTM RISK EVALUATION							
NON-ASTM RISK EVALUATION							
OTHER RISK EVALUATION SERVICES							0.00
SECTION 14: FEASIBILITY TESTING AND REMEDIAL PLANS							
FEASIBILITY TESTING							
EXTENSION OF FEASIBILITY TESTING							
OTHER FEASIBILITY SERVICES							

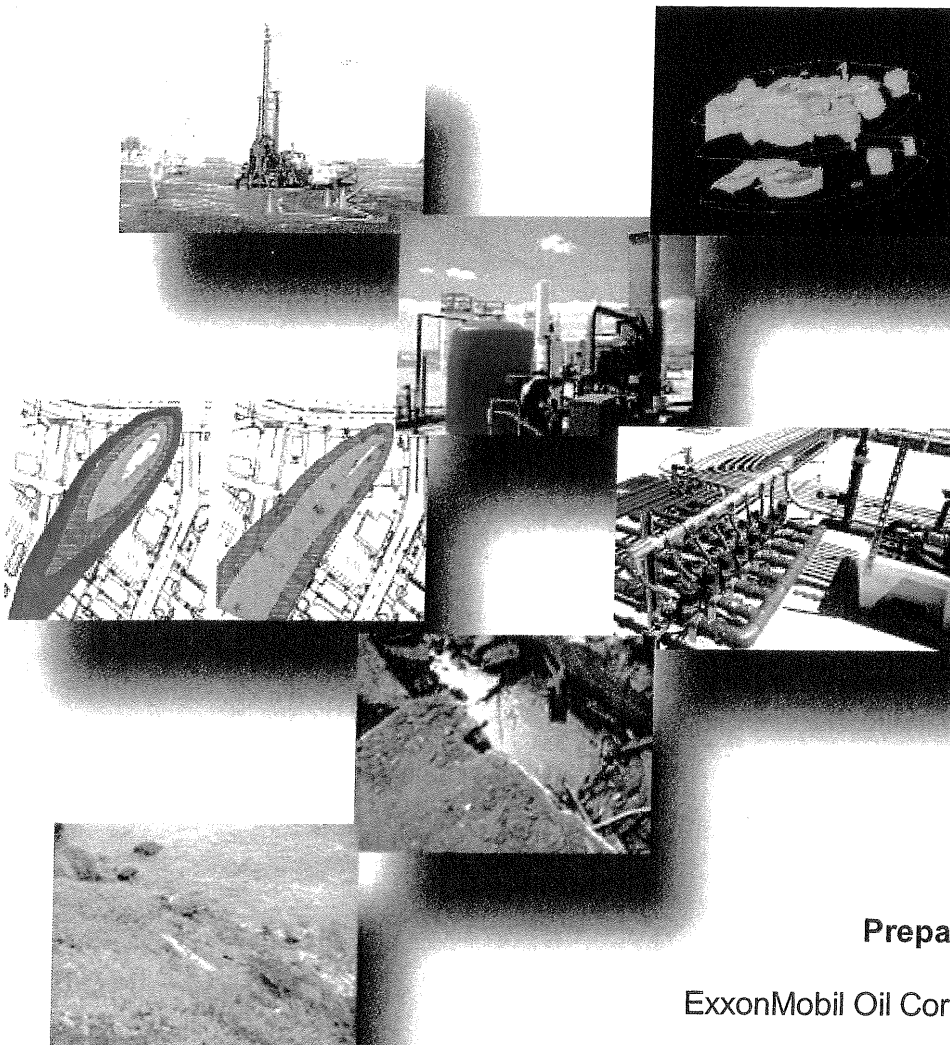
TASK	DESCRIPTION	UNIT	UNIT PRICE	NO. OF UNITS	Markup (%)	Sub Totals	SECTION TOTAL
	FEASIBILITY AND REMEDIAL STUDIES AND PLANS						0.00
	SECTION 15: REMEDIAL DESIGN SERVICES						0.00
	SECTION 18: CONSTRUCTION RELATED SERVICES						0.00
	SECTION 19: REAL ESTATE-RELATED SERVICES						0.00
	SECTION 20: DRILLING ACTIVITIES						0.00
	DELINEATION ASSESSMENT METHODOLOGIES						
20.02	Well Installation	cost plus markup or lump sum per project		\$ 35,202.24	3	36,258.31	36,258.31
	SECTION 30: REMEDIAL SYSTEM INSTALLATION SERVICES						
30.02	Field Installation Supplies	cost plus markup		\$ 12,106.00	3.00	12,469.18	
30.03	Remedial Installation Oversight	per hour	\$ 65.80	40		2,624.00	15,093.18
	SECTION 31: REMEDIAL SYSTEM START-UP SERVICES						0.00
	SECTION 32: REMEDIAL OVER-EXCAVATION SERVICES						0.00
	SECTION 33: REMEDIAL OPERATION AND MAINTENANCE SERVICES						0.00
33.03	Operation and Maintenance Supplies	cost plus markup		\$ 2,000.00	3.00	2,060.00	2,060.00
	SECTION 34: REMEDIAL UTILITY COSTS						0.00
	SECTION 39: REMEDIAL SYSTEM CLOSURE SERVICES						0.00
	SECTION 40: WASTE DISPOSAL SERVICES						
40.01	Non-Hazardous Water Disposal	cost plus markup		\$ 750.00	3.00	772.50	
40.02	Non-Hazardous Soil Disposal	cost plus markup		\$ 1,000.00	3.00	1,030.00	
40.05	Disposal Coordination and Supervising	per hour	\$ 88.00	4		352.00	2,154.50
	SECTION 45: WASTE TREATMENT SERVICES						0.00
	SECTION 49: WASTE TRANSPORTATION SERVICES						0.00
	SECTION 50: PERMIT SERVICES						0.00
	SECTION 60: ANALYTICAL SERVICES						0.00
	SECTION 70: REMEDIATION EQUIPMENT SERVICES						
	REMEDIAL EQUIPMENT PROCUREMENT						0.00
	SECTION 85: SITE SPECIFIC MONITORING AND SAMPLING SERVICES						
	GROUNDWATER WELL GAUGING AND SAMPLING						
	ADDITIONAL SOIL, WATER, AND AIR SAMPLING						
	MONITORING REPORTS						0.00
	SECTION 90: SOIL BORINGS WITH ABANDONMENT						
	WELL INSTALLATION						
	WELL ABANDONMENT						
	MOBILIZATION / DEMOBILIZATION						
	ADDITIONAL SERVICES						0.00
	Work Order Total		\$65,180.99				

FIGURES



2006 Annual Ground Water Monitoring and Remediation Report

Former Mobil Renton Terminal #46-080
2423 Lind Avenue SW, Renton, Washington



Prepared For

ExxonMobil Oil Corporation

Prepared By

ACTON • MICKELSON • ENVIRONMENTAL, INC.

Bldg VC, Suite 160
12606 NE 95th Street
Vancouver, Washington 98682
(360) 883-6999

MAY 4, 2007

2006 ANNUAL GROUND WATER MONITORING AND REMEDIATION REPORT

PREPARED FOR

Former Mobil Renton Terminal
Washington State Department of Ecology Identifier 2070, ConocoPhillips Renton Terminal
2423 Lind Avenue SW
Renton, Washington

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PREPARERS

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John R. Shaal, P.E.
Senior Project Manager

Date

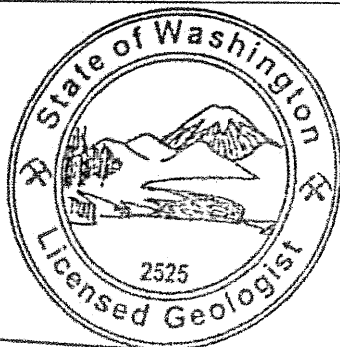
5/4/07

Jeffrey R. Heglie

Jeffrey R. Heglie, L.G.
Washington Licensed Geologist #2525

Date

5/4/07



Jeffrey R. Heglie

REVIEWER

Barbara J. Mickelson
Barbara J. Mickelson, P.E.
President

Date

5/4/07

MAY 4, 2007

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1. INTRODUCTION

This report was prepared on behalf of ExxonMobil Refining and Supply Company, Global Remediation (ExxonMobil), for the former Mobil Renton Terminal at 2423 Lind Avenue SW in Renton, Washington (site; **Figures 1 and 2**). The site is currently operated as the ConocoPhillips Renton Terminal. The Washington State Department of Ecology (WDOE) identifier is 2070.

ExxonMobil conducts ground water monitoring and remediation at the site in accordance with WDOE Enforcement Order DE 87-N301. Results of ground water monitoring performed in 2006 are presented in this report, along with a summary of remediation system performance.

2. BACKGROUND

The site is an active petroleum terminal operated by ConocoPhillips and occupies approximately 7 acres. ExxonMobil and its predecessors owned and operated the site until 1988 when the product storage and transfer facilities were sold to British Petroleum.

Mobil Oil Corporation (Mobil) identified petroleum-impacted soils in July 1986 while removing an underground storage tank in the vicinity of the loading rack. The results of subsequent investigation and testing suggested the source was cracks in the loading rack spill-containment system, which were repaired. The petroleum product was identified as primarily leaded gasoline. Liquid phase hydrocarbons (LPH) appeared limited to the area under the loading rack and an area to the northwest thereof (**Figure 2**). Remediation efforts included installation of two recovery wells and recovery trenches with treatment through an oil water separator and air stripper.

In November 2002, an apparent 14,800-gallon release of super unleaded gasoline was reported by ConocoPhillips from Tank 2, which is located near the southern property boundary (**Figure 2**). Following the release, ConocoPhillips installed a Dual Phase Vacuum Extraction system (oxidizer) and a ground water treatment system, which included recovery wells, an oil/water separator, and an air stripper. These systems have not run since before October 23, 2006.

3. GROUND WATER MONITORING RESULTS

3.1 Ground Water Monitoring Scope and Methodologies

Semi-annual ground water monitoring was conducted on June 5 to 7 and October 23 and 24, 2006. Procedures used to measure ground water elevation and LPH thickness, purge monitoring wells, monitor field parameters, collect, handle, and document ground water samples, and conduct laboratory analyses during the sampling events are presented in Appendix A.

3.1.1 Ground Water Monitoring Program

The monitoring well network used to collect and analyze samples includes 28 monitoring wells installed on the site. In addition, two recovery wells are installed in gravel-filled trenches, which are located near the loading rack and at the northwestern boundary of the site (**Figure 2**). The two recovery wells are not monitored; however, four monitoring wells installed in the recovery trenches are sampled as part of the monitoring program (monitoring wells W-1 through W-4). Site monitoring wells are generally 12 feet deep or less and are screened across the water table.

3.1.2 Ground Water Elevation and Liquid Phase Hydrocarbon Measurements

Depth to ground water and LPH, where present, were measured in the monitoring wells before purging and sampling activities. Ground water level data forms are in Appendix B.

3.1.3 Monitoring Well Purging

Each monitoring well sampled during the 2006 semi-annual monitoring events was purged using a peristaltic pump and low-flow methods. Purge rates were maintained between 0.17 and 0.33 liter per minute. To reduce the possibility of cross-contamination, dedicated peristaltic pump tubing and drop tubing were used to purge and sample each monitoring well.

To determine when water chemistry had stabilized and low-flow purging was producing water representative of aquifer conditions, field measurements were made for pH, temperature, turbidity, specific conductance, and dissolved oxygen. Copies of sampling/development information forms are in Appendix B.

3.1.4 Ground Water Sampling and Analysis

Following well purging, ground water samples were obtained directly from pump discharge tubing and placed in appropriate containers. While filling sample containers, the pumping rate was reduced to approximately 0.1 liter per minute.

After placing ground water samples in appropriate containers, each was immediately labeled with the sample number, time, date, preservative, and analytical method. Sample containers were then placed in coolers containing water ice. Sample chain-of-custody was maintained until delivered to the analytical laboratory by an express delivery service. Copies of chain-of-custody forms are in Appendix C.

Ground water samples were submitted for analysis of the following parameters to TestAmerica Analytical Testing Corporation of Nashville, Tennessee, a WDOE-certified laboratory:

- Total petroleum hydrocarbons as gasoline (TPHg), total petroleum hydrocarbons as diesel (TPHd), and total petroleum hydrocarbons as motor oil (TPHo) by Northwest Total Petroleum Hydrocarbon Methods NWTPH-Gx and NWTPH-Dx. (Note that the laboratory analytical reports use the terms gasoline range organics, diesel, and motor oil, which have been historically reported using the acronyms TPHg, TPHd, and TPHo. For historical consistency, the TPHg, TPHd, and TPHo acronyms will be used in this report).
- Benzene, toluene, ethylbenzene, and xylenes (BTEX), methyl tertiary butyl ether (MTBE), and ethanol by United States Environmental Protection Agency (EPA) Method 8260B.

Copies of laboratory reports for samples obtained during the 2006 semi-annual sampling events are in Appendix C.

3.1.5 Quality Assurance/ Quality Control

Quality control samples included trip blanks and field duplicates. Because wells were sampled using dedicated equipment, no equipment blanks were obtained.

Laboratory data were validated in general accordance with procedures outlined in Appendix D. Based on results of the data validation process, samples may be qualified with the following flags (analytical laboratory data qualifiers in upper case, data validation qualifiers in lower case):

- J or j: Estimated value. The analyte was positively identified, but the associated numerical result is an estimate.
- r: Data rejected. The presence or absence of the analyte cannot be verified (data validation qualifier only).
- u: Not detected (data validation qualifier only).
- uj: Not detected. The associated numerical value is an estimate of the Method Detection Limit (MDL) (data validation qualifier only).

Additional information regarding the application of data validation qualifiers is in Appendix D.

3.1.6 Purge Water Disposal

Approximately 10 and 16 gallons of purge water resulted from the June and October 2006 semiannual monitoring events, respectively. Water from monitoring activities was placed into the onsite equalization tank and processed through the ExxonMobil remediation system.

3.2 Ground Water Elevation and Liquid Phase Hydrocarbon Measurements

Depth to ground water and LPH thickness, if present, were measured in site monitoring wells on June 5 and October 23, 2006. Depth to ground water and LPH thickness measurements are presented in **Table 1**. Ground water elevations in monitoring wells containing detectable LPH were corrected for the effects of product density.

LPH was observed in four monitoring wells (monitoring wells B-2, B-3, B-4, and HA-8) during the June 2006 semi-annual monitoring event, with thicknesses ranging from 0.02 to 0.55 foot (**Table 1**). LPH was observed in three monitoring wells (monitoring wells B-3, B-4, and HA-8) during the October 2006 semi-annual monitoring event, with thicknesses ranging from 0.02 to 0.91 foot. Monitoring wells D-4 and D-5 were observed to be dry.

On June 5, 2006, depth to ground water ranged from 2.62 feet below the measuring point (bmp) in monitoring well D-6 to 8.91 feet bmp in monitoring well HA-3. Ground water elevations ranged from 9.74 feet above mean sea level (msl) in monitoring well B-2 to 15.12 feet above msl in monitoring well D-6 (**Table 1**). **Figure 3A** is the ground water elevation contour map for June 5, 2006. The inferred ground water flow direction was generally northeast. The ground water gradient ranged between 0.008 and 0.06.

On October 23, 2006, depth to ground water ranged from 5.97 feet bmp in monitoring well HA-1 to 10.18 feet bmp in monitoring well HA-14. Monitoring wells D-4 and D-5 were observed to be dry. Ground water elevations ranged from 9.84 feet above msl in monitoring well HA-14 to 13.53 feet above msl in monitoring well HA-1 (**Table 1**). **Figure 3B** is the ground water elevation contour map for October 23, 2006. The ground water gradient ranged between 0.004 and 0.032.

Comparison of the June and October 2006 water level data indicates the ground water elevation at most monitoring wells decreased approximately 2 feet between the two events. These fluctuations are consistent with historical observations of seasonal water-level variations.

3.3 Ground Water Quality

Table 2 provides analytical results for TPHg, TPHd, TPHo, and BTEX, and **Table 3** summarizes analytical results for MTBE and ethanol in ground water samples. Chain-of-custody forms, sample control forms, laboratory analytical reports, and quality control data are included in Appendix C.

During the June 2006 semi-annual monitoring event, monitoring wells B-2, B-3, B-4, and HA-8 contained measurable LPH and thus were not sampled; also, monitoring wells D-5 and HA-4 did not contain sufficient water for sampling. Monitoring wells HA-3, HA-9, and HA-11 did not produce sufficient water for low-flow sampling; instead, samples were collected with a peristaltic pump without purging.

During the October 2006 semi-annual monitoring event, monitoring wells B-3, B-4, and HA-8 contained measurable LPH and thus were not sampled; also, monitoring wells D-4 and D-5 were dry and monitoring well HA-3 contained insufficient water to sample. Monitoring wells HA-1, HA-2, HA-4 through HA-7, HA-9, HA-10, HA-11, HA-13, and HA-14 did not produce sufficient water for low-flow sampling; instead, the wells were purged dry on October 23, 2006 and samples were collected with a peristaltic pump on October 24, 2006.

3.3.1 Total Petroleum Hydrocarbons

Ground water sample analytical results for TPHg, TPHd, and TPHo are provided in **Table 2**.

3.3.1.1 Total Petroleum Hydrocarbons as Gasoline

Figure 4A is a map of TPHg concentrations in ground water samples obtained on June 6 and 7, 2006. TPHg concentrations ranged from less than the MDL (40 micrograms per liter [$\mu\text{g/L}$]) to 69,500 $\mu\text{g/L}$ in the ground water sample obtained from monitoring well W-1. In samples obtained from 12 monitoring wells (B-1, B-5, B-6, HA-2, HA-6, HA-9, HA-10, HA-11, and W-1 through W-4), reported TPHg concentrations exceeded the ground water Model Toxics Control Act (MTCA) Method A Cleanup Level (Cleanup Level) of 800/1,000^a $\mu\text{g/L}$ (**Table 2**).

Figure 4B is a map of TPHg concentrations in ground water samples obtained on October 23 and 24, 2006. TPHg concentrations ranged from 10.9 (estimated, result subsequently qualified as not detected, Ju) to 91,700 $\mu\text{g/L}$ in the ground water samples obtained from monitoring wells HA-1 and W-1, respectively. In samples obtained from 13 monitoring wells (B-1, B-2, B-5, B-6, HA-2, HA-6, HA-9, HA-10, HA-11, and W-1 through W-4), reported TPHg concentrations exceeded the ground water Cleanup Level of 800/1,000^a $\mu\text{g/L}$ (**Table 2**).

3.3.1.2 Total Petroleum Hydrocarbons as Diesel

TPHd concentrations reported in ground water samples obtained during the June 2006 ground water monitoring event ranged from less than the respective MDLs (35.8 and 36.2 $\mu\text{g/L}$) to 14,700 $\mu\text{g/L}$ reported in the ground water sample obtained from monitoring well HA-7 (**Table 2**). In samples obtained from 17 monitoring wells (monitoring wells B-1, B-5, B-6, D-4, D-6, D-7, HA-2, HA-3, HA-6, HA-7, HA-9, HA-10, HA-11, and W-1 through W-4), reported TPHd concentrations exceeded the ground water Cleanup Level of 500 $\mu\text{g/L}$.

TPHd concentrations in ground water samples obtained during the October 2006 ground water monitoring event ranged from less than the MDL (37.8 $\mu\text{g/L}$) to 10,700 $\mu\text{g/L}$ in the ground water sample obtained from monitoring well B-2 (**Table 2**). In samples obtained from 15 monitoring wells (monitoring wells B-1, B-2, B-5, B-6, D-6, D-7, HA-1, HA-6, HA-7, HA-9, HA-11, and W-1 through W-4), reported TPHd concentrations exceeded the ground water Cleanup Level of 500 $\mu\text{g/L}$.

^a MTCA Method A specifies a Cleanup Level of 800 $\mu\text{g/L}$ if benzene is present or 1,000 $\mu\text{g/L}$ if benzene is not present.

3.3.1.3 Total Petroleum Hydrocarbons as Motor Oil

TPHo concentrations reported in ground water samples obtained during the June 2006 ground water monitoring event ranged from 70.1 J to 9,490 µg/L in the ground water samples obtained from monitoring wells HA-12 and D-7, respectively (**Table 2**). In samples obtained from six monitoring wells (monitoring wells B-1, B-6, D-4, D-6, D-7, and HA-7), reported TPHo concentrations exceeded the ground water Cleanup Level of 500 µg/L.

TPHo concentrations reported in ground water samples obtained during the October 2006 ground water monitoring event ranged from less than the respective MDLs (35.2 to 183 µg/L) to 37,200 µg/L in the ground water sample obtained from monitoring well D-7 (**Table 2**). In samples obtained from eight monitoring wells (monitoring wells B-1, B-5, D-6, D-7, HA-1, HA-4, HA-11, and HA-12), reported TPHo concentrations exceeded the ground water Cleanup Level of 500 µg/L.

3.3.2 Benzene, Toluene, Ethylbenzene, Total Xylenes, Methyl Tertiary Butyl Ether, and Ethanol

Table 2 provides reported concentrations of BTEX, and **Table 3** provides reported concentrations of MTBE and ethanol in ground water samples.

3.3.2.1 Benzene

Figure 5A is a map of benzene concentrations in ground water samples obtained on June 6 and 7, 2006. Benzene concentrations ranged from less than the MDL (0.290 µg/L) to 8,680 µg/L in the ground water sample obtained from monitoring well W-1 (**Table 2**). In samples obtained from 15 monitoring wells (monitoring wells B-1, B-5, B-6, D-6, D-7, HA-2, HA-3, HA-6, HA-9, HA-10, HA-11, and W-1 through W-4), reported benzene concentrations exceeded the Cleanup Level of 5 µg/L.

Figure 5B is a map of benzene concentrations in ground water samples obtained on October 23 and 24, 2006. Benzene concentrations reported in ground water samples obtained during the second half 2006 ground water monitoring event ranged from less than the MDL (0.310 µg/L) in the ground water sample obtained from monitoring well HA-1 to 14,500 µg/L in the ground water sample obtained from monitoring well W-1 (**Table 2**). All reported benzene concentrations greater than the MDL in the October 2006 monitoring event samples were also greater than the Cleanup Level of 5 µg/L, except for a reported concentration of 4.85 µg/L in the ground water sample obtained from monitoring well HA-12.

3.3.2.2 Toluene

Toluene concentrations reported in ground water samples obtained during the June 2006 ground water monitoring event ranged from less than the MDL (0.280 µg/L) to 6,260 µg/L in the ground water sample obtained from monitoring well W-1 (**Table 2**). Toluene concentrations in the ground water samples obtained from monitoring wells B-6, HA-2, W-1, and W-2 exceeded the Cleanup Level of 1,000 µg/L.

Toluene concentrations reported in ground water samples obtained during the October 2006 ground water monitoring event ranged from less than the MDL (0.220 µg/L) to 8,400 µg/L in the ground water sample obtained from monitoring well W-1 (**Table 2**). Toluene concentrations in the ground water samples obtained from monitoring wells B-6, HA-2, W-1, and W-2 exceeded the Cleanup Level of 1,000 µg/L.

3.3.2.3 Ethylbenzene

Ethylbenzene concentrations reported in ground water samples obtained during the June 2006 ground water monitoring event ranged from less than the MDL (0.340 µg/L) to 1,040 µg/L in the ground water sample obtained from monitoring well HA-6 (**Table 2**). Ethylbenzene concentrations in the ground water samples obtained from monitoring wells HA-2, HA-6, W-1, and W-4 exceeded the Cleanup Level of 700 µg/L.

Ethylbenzene concentrations reported in ground water samples obtained during the October 2006 ground water monitoring event ranged from less than the MDL (0.230 µg/L) to 2,420 µg/L in the ground water sample obtained from monitoring well W-1 (**Table 2**). Ethylbenzene concentrations in the ground water samples obtained from monitoring wells HA-2, HA-6, W-1, W-2, and W-4 exceeded the Cleanup Level of 700 µg/L.

3.3.2.4 Total Xylenes

Total xylenes concentrations reported in ground water samples obtained during the June 2006 ground water monitoring event ranged from less than the MDL (0.820 µg/L) to 10,200 µg/L in the ground water sample obtained from monitoring well HA-2 (**Table 2**). Total xylenes concentrations in the ground water samples obtained from monitoring wells B-6, HA-2, HA-6, HA-11, W-1, and W-2 exceeded the Cleanup Level of 1,000 µg/L.

Total xylenes concentrations reported in ground water samples obtained during the October 2006 ground water monitoring event ranged from less than the MDL (0.440 µg/L) to 20,800 µg/L in the ground water sample obtained from monitoring well W-1 (**Table 2**). Total xylenes concentrations in the ground water samples obtained from monitoring wells B-6, HA-2, HA-6, HA-11, W-1, and W-2 exceeded the Cleanup Level of 1,000 µg/L.

3.3.2.5 Methyl Tertiary Butyl Ether

MTBE concentrations reported in ground water samples obtained during the June 2006 ground water monitoring event were less than the MDL (0.320 µg/L), except for reported MTBE concentrations of 0.880J, 48.5, and 15.6 µg/L in the ground water samples obtained from monitoring wells HA-11, W-1, and W-2, respectively (**Table 3**).

MTBE concentrations reported in ground water samples obtained during the October 2006 ground water monitoring event were less than the MDL (0.310 µg/L), except for ground water samples obtained from five monitoring wells, which contained reported MTBE concentrations ranging from 0.770 J to 33.6 µg/L in the ground water samples obtained from monitoring wells B-5 and W-1, respectively (**Table 3**).

3.3.2.5 Ethanol

Ethanol concentrations reported in ground water samples obtained during the June 2006 ground water monitoring event were less than the MDLs (45.1 to 451 µg/L), except for a reported ethanol concentration of 134 µg/L in the ground water sample obtained from monitoring well W-1 (**Table 3**).

Ethanol concentrations reported in ground water samples obtained during the October 2006 ground water monitoring event were less than the MDL (62 µg/L) (**Table 3**).

3.4 Quality Assurance Samples and Data Validation

Data validation was performed using procedures discussed in Appendix D. Data qualifiers appended to the laboratory results have been added to the tables summarizing ground water analytical data. Copies of data validation summary reports are included in Appendix D.

Analytical results of trip blank samples indicate that field quality control measures were implemented properly (**Table 4**). Results for duplicate samples were consistent with results from parent samples.

Results of the data validation process indicate that most quality control criteria, including holding times, instrument checks, sample temperatures, calibration, blanks, duplicates, spikes, standards, and reporting limits were met by the laboratory. No data are rejected, and the data are considered suitable for supporting the ground water monitoring program objectives and decisions.

4. REMEDIATION ACTIVITIES

The ExxonMobil remediation system at the site consists of two LPH recovery wells installed in gravel-filled trenches, which are located near the loading rack and at the northwestern boundary of the site (**Figure 2**). Water and LPH from the recovery wells is first processed through an oil water separator where the LPH is separated from the water. LPH is collected and stored in a 55-gallon drum, and recovered water is pumped into an air stripping unit where the volatile hydrocarbons are removed. Processed water from the remediation system is discharged into the King County sewer system under Permit #264-03 (expiration February 1, 2011). Monitoring reports are submitted to the King County Industrial Waste Program on a semi-annual basis.

The original remediation system was installed in November 1987. During 2006, several modifications and upgrades were performed, including:

- Replacement of packing material in the air stripping tower
- Installation of a bag filter and chemical additive system and addition of new water lines with updated instrumentation for monitoring of system performance

Modifications and upgrades were completed in December 2006.

During 2006, the remediation system operated for short periods of time to test the various system components. Approximately 550 gallons of water were processed through the system during the year.

5. FUTURE MONITORING AND REMEDIATION

The first and second half 2007 ground water monitoring events are scheduled for March and September 2007.

Future operation and maintenance of the remediation system will include minimum twice-per-month inspections and recording of operating data. Specifically, system performance monitoring will include observation of water pressure and feed rates for each of the two extraction pumps, inlet and outlet bag filter pressures, air stripping blower and stripping tower operating parameters, and processed-water discharge data.

The 2007 annual report will include 2007 operation and performance data for the remediation system.

6. REMARKS

This report represents our professional opinions, which are based in part on client-supplied and currently available information and are arrived at in accordance with accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended. This report was prepared solely for the use of our client. Any reliance on the information contained in the report by third parties shall be at such parties' sole risk.

7. REFERENCES

Kleinfelder. 2006. *2005 Groundwater Monitoring Report*, Former Mobil Oil Renton Terminal (Site #46-080), 2423 Lind Avenue Southwest, Renton, Washington.

WDOE. 1987. Enforcement Order DE 87-N301.

GROUND WATER ELEVATION DATA
Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Date	Reference Elevation [1] (feet msl)	Depth to Water [2] (feet bmp)	LPB Thickness (feet)	Ground Water Elevation [3] (feet msl)	Notes
B-1	1/27/1993	18.62	5.55		13.07	
	3/12/1993	18.62	6.64		11.98	
	4/14/1993	18.62	5.65		12.97	
	6/30/1993	18.62	6.81		11.81	
	12/15/1993	18.62	7.82		10.80	
	11/4/1994	18.62	8.80		9.82	
	2/22/1995	18.62	4.54		14.08	
	5/15/1995	18.62	6.25		12.37	
	6/16/1995	18.62	7.00		11.62	
	10/20/1995	18.62	7.75		10.87	
	4/4/1996	18.62	5.13		13.49	
	4/16/1996	18.62	4.93		13.69	
	5/10/1996	18.62	4.73		13.89	
	5/15/1996	18.62	4.73		13.89	
	5/22/1996	18.62	5.03		13.59	
	6/5/1996	18.62	5.88		12.74	
	6/24/1996	18.62	6.80		11.82	
	7/15/1996	18.62	7.48		11.14	
	1/3/1997	18.62	3.55		15.07	
	3/12/1997	18.62	4.62		14.00	
	4/2/1997	18.62	4.93		13.69	
	5/1/1997	18.62	5.52		13.10	
	8/19/1997	18.62	7.51		11.11	
	9/17/1997	18.62	6.80		11.82	
	5/1/1998	18.62	6.42		12.20	
	5/23/2000	18.62	6.53		12.09	
	5/24/2001	18.62	6.65		11.97	
	6/5/2002	18.62	6.52		12.10	
	5/29/2003	18.62	6.81		11.81	
	6/15/2004	18.62	7.43		11.19	
	6/20/2005	18.62	6.43		12.19	
	6/5/2006	18.62	6.13		12.49	
	10/23/2006	18.62	7.86		10.76	
B-2	1/27/1993	18.60	6.20	1.08	13.19	Used LPH density 0.73
	3/12/1993	18.60	8.15	0.24	10.63	Used LPH density 0.73
	4/14/1993	18.60	8.82	1.25	10.69	Used LPH density 0.73
	6/30/1993	18.60	8.47	0.75	10.68	Used LPH density 0.73
	12/15/1993	18.60	8.62	0.21	10.13	Used LPH density 0.73
	2/8/1994	18.60	6.63	0.50	12.34	Used LPH density 0.73
	7/8/1994	18.60	8.95		9.65	
	8/12/1994	18.60	9.34		9.26	
	9/21/1994	18.60	9.70	0.10	8.97	Used LPH density 0.73
	11/4/1994	18.60	9.68	0.12	9.01	Used LPH density 0.73
	12/23/1994	18.60	5.18		13.42	

GROUND WATER ELEVATION DATA

Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Date	Reference Elevation [1] (feet msl)	Depth to Water [2] (feet bmp)	LPH Thickness (feet)	Ground Water Elevation [3] (feet msl)	Notes
B-2 (Cont.)	2/3/1995	18.60	NM	NM	NM	
	2/22/1995	18.60	6.03	0.03	12.59	Used LPH density 0.73
	5/15/1995	18.60	6.46	0.04	12.17	Used LPH density 0.73
	6/16/1995	18.60	6.92		11.68	
	10/20/1995	18.60	8.10		10.50	
	4/4/1996	18.60	5.40	0.83	13.81	Used LPH density 0.73
	4/16/1996	18.60	4.80		13.80	
	5/10/1996	18.60	4.88	0.43	14.03	Used LPH density 0.73
	5/15/1996	18.60	4.85	0.42	14.06	Used LPH density 0.73
	5/22/1996	18.60	7.14	0.05	11.50	Used LPH density 0.73
	6/5/1996	18.60	5.62		12.98	
	6/24/1996	18.60	8.17		10.43	
	7/15/1996	18.60	8.65		9.95	
	8/23/1996	18.60	9.08		9.52	
	9/18/1996	18.60	9.33		9.27	
	1/3/1997	18.60	3.91		14.69	
	3/12/1997	18.60	7.05		11.55	
	4/2/1997	18.60	7.15		11.45	
	5/1/1997	18.60	7.49		11.11	
	7/8/1997	18.60	6.03	0.02	12.58	Used LPH density 0.73
	8/19/1997	18.60	8.43		10.17	
	8/26/1997	18.60	8.52		10.08	
	9/18/1997	18.60	7.70		10.90	
	4/29/1998	18.60	6.47		12.13	
	7/30/1999	18.60	7.00		11.60	
	5/23/2000	18.60	6.67		11.93	
	5/24/2001	18.60	8.24	0.14	10.46	Used LPH density 0.73
	6/5/2002	18.60	6.56	0.31	12.27	Used LPH density 0.73
	5/29/2003	18.60	7.75		10.85	
	6/15/2004	18.60	8.76		9.84	
	6/20/2005	18.60	6.34	0.29	12.47	Used LPH density 0.73
	6/5/2006	18.60	8.87	0.02	9.74	Used LPH density 0.73
	10/23/2006	18.60	8.15		10.45	
B-3	1/27/1993	18.73	10.18	4.64	11.94	Used LPH density 0.73
	3/12/1993	18.73	11.64	3.49	9.64	Used LPH density 0.73
	4/14/1993	18.73	10.75	2.64	9.91	Used LPH density 0.73
	6/30/1993	18.73	11.21	2.36	9.24	Used LPH density 0.73
	12/15/1993	18.73	11.05	0.68	8.18	Used LPH density 0.73
	2/8/1994	18.73	11.48	4.07	10.22	Used LPH density 0.73
	7/8/1994	18.73	11.58	2.37	8.88	Used LPH density 0.73
	8/12/1994	18.73	11.55	1.70	8.42	Used LPH density 0.73
	9/21/1994	18.73	11.60	0.82	NM	Used LPH density 0.73
	11/4/1994	18.73	11.60	1.20	NM	Used LPH density 0.73
	12/23/1994	18.73	11.95	6.00	11.16	Used LPH density 0.73

TABLE 1
GROUND WATER ELEVATION DATA
Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Date	Reference Elevation [1] (feet msl)	Depth to Water [2] (feet bmp)	LPH Thickness (feet)	Ground Water Elevation [3] (feet msl)	Notes
B-3 (Cont.)	2/3/1995	18.73	5.00	0.05	13.77	Used LPH density 0.73
	2/22/1995	18.73	13.68	8.63	11.35	Used LPH density 0.73
	3/24/1995	18.73	11.60	6.30	11.73	Used LPH density 0.73
	4/27/1995	18.73	9.90	3.70	11.53	Used LPH density 0.73
	5/15/1995	18.73	11.46	5.06	10.96	Used LPH density 0.73
	6/16/1995	18.73	11.48	4.53	10.56	Used LPH density 0.73
	8/25/1995	18.73	11.47	3.44	9.77	Used LPH density 0.73
	10/20/1995	18.73	9.91	0.55	9.22	Used LPH density 0.73
	4/4/1996	18.73	11.12	6.34	12.24	Used LPH density 0.73
	4/16/1996	18.73	10.04	5.28	12.54	Used LPH density 0.73
	5/10/1996	18.73	7.49	3.09	13.50	Used LPH density 0.73
	5/15/1996	18.73	6.93	2.52	13.64	Used LPH density 0.73
	5/22/1996	18.73	7.69	0.44	11.36	Used LPH density 0.73
	6/5/1996	18.73	9.31	1.54	10.54	Used LPH density 0.73
	6/24/1996	18.73	11.78	3.35	9.40	Used LPH density 0.73
	7/15/1996	18.73	11.59	2.77	9.16	Used LPH density 0.73
	8/23/1996	18.73	11.66	2.11	8.61	Used LPH density 0.73
	9/18/1996	18.73	11.63	1.96	8.53	Used LPH density 0.73
	1/3/1997	18.73	5.00	0.45	14.06	Used LPH density 0.73
	3/12/1997	18.73	8.15	0.61	11.03	Used LPH density 0.73
	4/2/1997	18.73	7.62		11.11	Used LPH density 0.73
	5/1/1997	18.73	7.93	1.20	11.68	Used LPH density 0.73
	7/8/1997	18.73	11.00	5.02	11.39	Used LPH density 0.73
	8/19/1997	18.73	11.12	2.52	9.45	Used LPH density 0.73
	8/26/1997	18.73	11.57	2.77	9.18	Used LPH density 0.73
	9/18/1997	18.73	10.28	0.37	8.72	Used LPH density 0.73
	4/30/1998	18.73	11.59	5.56	11.20	Used LPH density 0.73
	7/28/1999	18.73	11.63	4.77	10.58	Used LPH density 0.73
	5/23/2000	18.73	10.63	3.73	10.82	Used LPH density 0.73
	5/24/2001	18.73	10.81	2.00	9.38	Used LPH density 0.73
	6/5/2002	18.73	11.45	5.48	11.28	Used LPH density 0.73
	5/27/2003	18.73	11.42	3.55	9.90	Used LPH density 0.73
	6/15/2004	18.73	11.50	2.35	8.95	Used LPH density 0.73
	6/20/2005	18.73	9.30	3.52	12.00	Used LPH density 0.73
	6/5/2006	18.73	5.82	0.02	12.92	Used LPH density 0.73
	10/23/2006	18.73	9.05	0.91	10.34	Used LPH density 0.73
B-4	1/27/1993	18.09	5.16	0.59	13.36	Used LPH density 0.73
	3/12/1993	18.09	7.48	0.03	10.63	Used LPH density 0.73
	4/14/1993	18.09	7.23	0.07	10.91	Used LPH density 0.73
	6/30/1993	18.09	7.20		10.89	
	12/15/1993	18.09	8.01	0.30	10.30	Used LPH density 0.73
	2/8/1994	18.09	6.29	0.78	12.37	Used LPH density 0.73
	7/8/1994	18.09	8.42		9.67	
	8/12/1994	18.09	8.79		9.30	

TABLE 1

GROUND WATER ELEVATION DATA

Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Date	Reference Elevation [1] (feet msl)	Depth to Water [2] (feet bmp)	LPH Thickness (feet)	Ground Water Elevation [3] (feet msl)	Notes
B-4 (Cont.)	9/21/1994	18.09	9.07		9.02	
	11/4/1994	18.09	8.94		9.15	
	12/23/1994	18.09	4.69	0.34	13.65	Used LPH density 0.73
	2/3/1995	18.09	5.00	0.90	13.75	Used LPH density 0.73
	2/22/1995	18.09	5.77	0.64	12.79	Used LPH density 0.73
	3/24/1995	18.09	6.09	0.90	12.66	Used LPH density 0.73
	4/27/1995	18.09	6.00	0.50	12.46	Used LPH density 0.73
	5/15/1995	18.09	6.24	0.44	12.17	Used LPH density 0.73
	6/16/1995	18.09	6.42	0.03	11.69	Used LPH density 0.73
	8/25/1995	18.09	7.14		10.95	
	10/20/1995	18.09	7.12		10.97	
	4/4/1996	18.09	5.03		13.06	
	4/16/1996	18.09	4.75	0.49	13.70	Used LPH density 0.73
	5/10/1996	18.09	4.71	0.92	14.05	Used LPH density 0.73
	5/15/1996	18.09	4.61	0.87	14.12	Used LPH density 0.73
	5/22/1996	18.09	7.10	0.68	11.49	Used LPH density 0.73
	6/5/1996	18.09	7.17	0.10	10.99	Used LPH density 0.73
	6/24/1996	18.09	7.67		10.42	
	7/15/1996	18.09	8.13		9.96	
	8/23/1996	18.09	8.59		9.50	
	9/18/1996	18.09	8.78		9.31	
	1/3/1997	18.09	4.46	1.61	14.81	Used LPH density 0.73
	3/12/1997	18.09	6.45	0.10	11.71	Used LPH density 0.73
	4/2/1997	18.09	6.54	0.01	11.56	Used LPH density 0.73
	5/1/1997	18.09	6.87		11.22	
	8/19/1997	18.09	7.87		10.22	
	8/26/1997	18.09	8.08		10.01	
	9/18/1997	18.09	7.40		10.69	
	4/30/1998	18.09	5.93	0.02	12.17	Used LPH density 0.73
	7/29/1999	18.09	6.42		11.67	
	5/23/2000	18.09	6.10		11.99	
	5/23/2001	18.09	7.46		10.63	
	6/5/2002	18.09	6.18	0.48	12.26	Used LPH density 0.73
	5/29/2003	18.09	7.10	sheen	10.99	
	6/15/2004	18.09	8.20	0.05	9.89	Used LPH density 0.73
	6/20/2005	18.09	5.95	0.48	12.49	Used LPH density 0.73
	6/5/2006	18.09	5.67	0.55	12.82	Used LPH density 0.73
	10/23/2006	18.09	7.60	0.04	10.52	Used LPH density 0.73
B-5	1/27/1993	17.97	4.48		13.49	
	3/12/1993	17.97	7.98		9.99	
	4/14/1993	17.97	7.64		10.33	
	6/30/1993	17.97	7.03		10.94	
	12/15/1993	17.97	7.35		10.62	
	2/8/1994	17.97	5.40	0.03	12.59	Used LPH density 0.73

GROUND WATER ELEVATION DATA
Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Date	Reference Elevation [1] (feet msl)	Depth to Water [2] (feet bmp)	LPH Thickness (feet)	Ground Water Elevation [3] (feet msl)	Notes
B-5 (Cont.)	7/8/1994	17.97	8.58	0.05	9.43	Used LPH density 0.73
	8/12/1994	17.97	8.78	0.01	9.20	Used LPH density 0.73
	9/21/1994	17.97	9.02	0.06	8.99	Used LPH density 0.73
	11/4/1994	17.97	8.96	0.07	9.06	Used LPH density 0.73
	12/23/1994	17.97	4.23	0.01	13.75	Used LPH density 0.73
	2/3/1995	17.97	4.30	0.04	13.70	Used LPH density 0.73
	2/22/1995	17.97	5.74	0.34	12.48	Used LPH density 0.73
	3/24/1995	17.97	5.93	0.78	12.61	Used LPH density 0.73
	4/27/1995	17.97	6.00	0.90	12.63	Used LPH density 0.73
	5/15/1995	17.97	6.30	0.90	12.33	Used LPH density 0.73
	6/16/1995	17.97	6.73	0.84	11.85	Used LPH density 0.73
	8/25/1995	17.97	6.87	0.07	11.15	Used LPH density 0.73
	10/20/1995	17.97	7.39		10.58	
	4/4/1996	17.97	4.24		13.73	
	4/16/1996	17.97	3.85		14.12	
	5/10/1996	17.97	3.63		14.34	
	5/15/1996	17.97	3.60		14.37	
	5/22/1996	17.97	7.46		10.51	
	6/5/1996	17.97	7.77	0.01	10.21	Used LPH density 0.73
	6/24/1996	17.97	7.57		10.40	
	7/15/1996	17.97	8.35		9.62	
	8/23/1996	17.97	8.62		9.35	
	9/18/1996	17.97	8.75		9.22	
	1/3/1997	17.97	2.95		15.02	
	3/12/1997	17.97	7.38		10.59	
	4/2/1997	17.97	7.43		10.54	
	5/1/1997	17.97	7.68		10.29	
	8/19/1997	17.97	7.56		10.41	
	8/26/1997	17.97	7.88		10.09	
	9/17/1997	17.97	7.53		10.44	
	4/29/1998	17.97	5.61		12.36	
	7/29/1999	17.97	6.09		11.88	
	5/23/2000	17.97	5.95		12.02	
	5/23/2001	17.97	7.95		10.02	
	6/5/2002	17.97	5.27		12.70	
	5/29/2003	17.97	6.82	sheen	11.15	
	6/15/2004	17.97	7.37		10.60	
	6/22/2005	17.97	5.29		12.68	
	6/5/2006	17.97	4.91		13.06	
	10/23/2006	17.97	7.24		10.73	
B-6	1/27/1993	17.94	6.15		11.79	
	3/12/1993	17.94	7.86		10.08	
	4/14/1993	17.94	7.89		10.05	
	6/30/1993	17.94	7.26		10.68	

GROUND WATER ELEVATION DATA
Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Date	Reference Elevation [1] (feet msl)	Depth to Water [2] (feet bmp)	LPH Thickness (feet)	Ground Water Elevation [3] (feet msl)	Notes
B-6 (Cont.)	12/15/1993	17.94	7.69		10.25	
	2/8/1994	17.94	5.61		12.33	
	7/8/1994	17.94	8.52		9.42	
	8/12/1994	17.94	9.38	0.76	9.11	Used LPH density 0.73
	9/21/1994	17.94	10.08	1.37	8.86	Used LPH density 0.73
	11/4/1994	17.94	10.48	1.76	8.74	Used LPH density 0.73
	12/23/1994	17.94	4.77		13.17	
	2/3/1995	17.94	4.79	0.05	13.19	Used LPH density 0.73
	2/22/1995	17.94	5.07	0.01	12.88	Used LPH density 0.73
	3/24/1995	17.94	6.97	0.77	11.53	Used LPH density 0.73
	4/27/1995	17.94	3.65	0.10	14.36	Used LPH density 0.73
	5/15/1995	17.94	6.10	0.46	12.18	Used LPH density 0.73
	6/16/1995	17.94	6.71	0.69	11.73	Used LPH density 0.73
	8/25/1995	17.94	7.20	0.37	11.01	Used LPH density 0.73
	10/20/1995	17.94	7.54	0.18	10.53	Used LPH density 0.73
	4/4/1996	17.94	5.79	1.46	13.22	Used LPH density 0.73
	4/16/1996	17.94	5.92	2.24	13.66	Used LPH density 0.73
	5/10/1996	17.94	5.64	2.20	13.91	Used LPH density 0.73
	5/15/1996	17.94	5.72	2.33	13.92	Used LPH density 0.73
	5/17/1996	17.94	NM	NM	NM	
	5/22/1996	17.94	7.34		10.60	
	6/5/1996	17.94	8.00	0.41	10.24	Used LPH density 0.73
	6/24/1996	17.94	8.20	0.25	9.92	Used LPH density 0.73
	7/15/1996	17.94	8.77	0.59	9.60	Used LPH density 0.73
	8/23/1996	17.94	9.34	0.92	9.27	Used LPH density 0.73
	9/18/1996	17.94	9.51	0.91	9.09	Used LPH density 0.73
	1/3/1997	17.94	3.71		14.23	
	3/12/1997	17.94	7.01		10.93	
	4/2/1997	17.94	7.56		10.38	
	5/1/1997	17.94	7.65		10.29	
	8/19/1997	17.94	7.81		10.13	
	9/17/1997	17.94	7.00		10.94	
	4/29/1998	17.94	5.89		12.05	
	7/29/1999	17.94	6.15		11.79	
	5/24/2001	17.94	8.05		9.89	
	6/5/2002	17.94	5.65	0.10	12.29	Used LPH density 0.73
	5/29/2003	17.94	7.08		10.86	
	6/15/2004	17.94	8.42		9.52	
	6/22/2005	17.94	5.44		12.50	
	6/5/2006	17.94	5.10		12.84	
	10/23/2006	17.94	7.34		10.60	
D-1	1/27/1993	18.03	5.53		12.50	
	3/12/1993	18.03	6.65		11.38	
	4/14/1993	18.03	5.84		12.19	

GROUND WATER ELEVATION DATA
Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Date	Reference Elevation [1] (feet msl)	Depth to Water [2] (feet bmp)	LPH Thickness (feet)	Ground Water Elevation [3] (feet msl)	Notes
D-1 (Cont.)	12/15/1993	18.03	6.59		11.44	
	11/4/1994	18.03	7.55		10.48	
	2/22/1995	18.03	5.90		12.13	
	6/16/1995	18.03	6.86		11.17	
	10/20/1995	18.03	6.60		11.43	
	4/4/1996	18.03	6.44		11.59	
	4/16/1996	18.03	6.36		11.67	
	5/1/1997	18.03	6.06		11.97	
	ABANDONED					
D-2	11/4/1994	19.14	NM	NM	NM	
	ABANDONED					
D-4	1/27/1993	17.82	NM	NM	NM	
	12/15/1993	17.82	NM	NM	NM	
	11/4/1994	17.82	6.44		11.38	
	2/22/1995	17.82	3.95		13.87	
	6/16/1995	17.82	6.37		11.45	
	10/20/1995	17.82	6.10		11.72	
	4/4/1996	17.82	5.17		12.65	
	4/16/1996	17.82	5.40		12.42	
	4/30/1998	17.82	5.68		12.14	
	6/5/2002	17.82	DRY			
	5/27/2003	17.82	DRY			
	6/15/2004	17.82	DRY			
	6/21/2005	17.82	5.90		11.92	
	6/5/2006	17.82	4.77		13.05	
	10/23/2006	17.82	5.82		DRY	
D-5	1/27/1993	18.12	5.51		12.61	
	4/14/1993	18.12	5.58		12.54	
	12/15/1993	18.12	6.55		11.57	
	11/4/1994	18.12	6.56		11.56	
	2/22/1995	18.12	4.10		14.02	
	6/16/1995	18.12	6.77		11.35	
	10/20/1995	18.12	6.55		11.57	
	4/4/1996	18.12	4.51		13.61	
	4/16/1996	18.12	4.94		13.18	
	5/1/1997	18.12	6.50		11.62	
	4/30/1998	18.12	6.61		11.51	
	5/27/2003	18.12	DRY			
	6/15/2004	18.12	DRY			
	6/21/2005	18.12	DRY			
	6/5/2006	18.12	6.51		11.61	
	10/23/2006	18.12	DRY		DRY	
D-6	1/27/1993	17.74	5.54	1.00	12.93	Used LPH density 0.73
	3/12/1993	17.74	6.79		10.95	

GROUND WATER ELEVATION DATA

Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Date	Reference Elevation [1] (feet msl)	Depth to Water [2] (feet bmp)	LPH Thickness (feet)	Ground Water Elevation [3] (feet msl)	Notes
D-6 (Cont.)	4/14/1993	17.74	5.68		12.06	
	6/30/1993	17.74	6.58		11.16	
	12/15/1993	17.74	7.14		10.60	
	2/8/1994	17.74	5.27		12.47	
	7/8/1994	17.74	7.43		10.31	
	8/12/1994	17.74	NM	NM	NM	
	9/21/1994	17.74	NM	NM	NM	
	11/4/1994	17.74	NM	NM	NM	
	12/23/1994	17.74	5.14		12.60	
	2/3/1995	17.74	4.34		13.40	
	2/22/1995	17.74	4.79		12.95	
	3/24/1995	17.74	4.55		13.19	
	4/27/1995	17.74	6.64		11.10	
	5/15/1995	17.74	5.19		12.55	
	6/16/1995	17.74	5.67		12.07	
	8/25/1995	17.74	6.42		11.32	
	10/20/1995	17.74	4.81		12.93	
	4/4/1996	17.74	1.58		16.16	
	4/16/1996	17.74	1.21		16.53	
	5/10/1996	17.74	3.50		14.24	
	5/15/1996	17.74	3.28		14.46	
	5/22/1996	17.74	5.59		12.15	
	6/5/1996	17.74	6.09		11.65	
	6/24/1996	17.74	6.55		11.19	
	7/15/1996	17.74	7.10		10.64	
	8/23/1996	17.74	7.73		10.01	
	9/18/1996	17.74	7.09		10.65	
	1/3/1997	17.74	2.77		14.97	
	3/12/1997	17.74	1.61		16.13	
	4/2/1997	17.74	5.97		11.77	
	5/1/1997	17.74	5.89		11.85	
	8/19/1997	17.74	7.28		10.46	
	9/17/1997	17.74	7.38		10.36	
	4/30/1998	17.74	5.49		12.25	
	5/23/2000	17.74	5.82		11.92	
	5/23/2001	17.74	6.92		10.82	
	6/5/2002	17.74	4.67		13.07	
	5/27/2003	17.74	6.72		11.02	
	6/15/2004	17.74	8.52		9.22	
	6/22/2005	17.74	4.67		13.07	
	6/5/2006	17.74	2.62		15.12	
	10/23/2006	17.74	6.95		10.79	
D-7	1/27/1993	17.69	5.07		12.62	
	3/12/1993	17.69	6.38		11.31	

GROUND WATER ELEVATION DATA
Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Date	Reference Elevation [1] (feet msl)	Depth to Water [2] (feet bmp)	LPH Thickness (feet)	Ground Water Elevation [3] (feet msl)	Notes
D-7 (Cont.)	4/14/1993	17.69	6.38		11.31	
	12/15/1993	17.69	7.37		10.32	
	7/8/1994	17.69	7.14		10.55	
	8/12/1994	17.69	7.14		10.55	
	9/21/1994	17.69	NM	NM	NM	
	11/4/1994	17.69	7.94		9.75	
	12/23/1994	17.69	7.14		10.55	
	2/3/1995	17.69	4.59		13.10	
	2/22/1995	17.69	5.31		12.38	
	3/24/1995	17.69	5.35		12.34	
	4/27/1995	17.69	5.18		12.51	
	5/15/1995	17.69	5.50		12.19	
	6/16/1995	17.69	5.95		11.74	
	8/25/1995	17.69	6.59		11.10	
	10/20/1995	17.69	6.00		11.69	
	3/24/1996	17.69	5.35		12.34	
	4/4/1996	17.69	4.30		13.39	
	4/16/1996	17.69	4.01		13.68	
	4/2/1997	17.69	6.04		11.65	
	5/1/1997	17.69	6.30		11.39	
	9/17/1997	17.69				
	4/30/1998	17.69	5.85		11.84	
	5/23/2000	17.69	6.11		11.58	
	5/23/2001	17.69	6.85		10.84	
	6/4/2002	17.69	5.51		12.18	
	5/27/2003	17.69	6.36		11.33	
	6/15/2004	17.69	7.24		10.45	
	6/22/2005	17.69	5.11		12.58	
	6/5/2006	17.69	4.74		12.95	
	10/23/2006	17.69	7.04		10.65	
HA-1	1/27/1993	19.50	5.94		13.56	
	3/12/1993	19.50	8.54		10.96	
	4/14/1993	19.50	6.47		13.03	
	12/15/1993	19.50	5.54		13.96	
	11/4/1994	19.50	10.30		9.20	
	2/22/1995	19.50	5.11		14.39	
	6/16/1995	19.50	8.33		11.17	
	10/20/1995	19.50	5.48		14.02	
	4/4/1996	19.50	5.81		13.69	
	4/16/1996	19.50	5.78		13.72	
	5/1/1997	19.50	5.59		13.91	
	9/17/1997	19.50	5.50		14.00	
	4/29/1998	19.50	5.83		13.67	
	7/28/1999	19.50	NM	NM	NM	

TABLE 1

GROUND WATER ELEVATION DATA

Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Date	Reference Elevation [1] (feet msl)	Depth to Water [2] (feet bmp)	LPH Thickness (feet)	Ground Water Elevation [3] (feet msl)	Notes
HA-1 (Cont.)	5/24/2000	19.50	6.20		13.30	
	5/23/2001	19.50	6.30		13.20	
	6/4/2002	19.50	6.40		13.10	
	5/28/2003	19.50	6.45		13.05	
	6/15/2004	19.50	5.80		13.70	
	6/22/2005	19.50	5.77		13.73	
	6/5/2006	19.50	5.00		14.50	
	10/23/2006	19.50	5.97		13.53	
HA-2	1/27/1993	18.17	5.80		12.37	
	3/12/1993	18.17	NM	NM	NM	
	4/14/1993	18.17	7.12		11.05	
	12/15/1993	18.17	7.84		10.33	
	11/4/1994	18.17	8.45		9.72	
	2/22/1995	18.17	6.39		11.78	
	6/16/1995	18.17	7.03		11.14	
	10/20/1995	18.17	7.29		10.88	
	4/4/1996	18.17	5.43		12.74	
	4/16/1996	18.17	5.17		13.00	
	4/2/1997	18.17	6.80		11.37	
	5/1/1997	18.17	6.98		11.19	
	9/18/1997	18.17	7.34		10.83	
	4/30/1998	18.17	6.74		11.43	
	7/30/1999	18.17	7.03		11.14	
	5/23/2000	18.17	6.94		11.23	
	5/23/2001	18.17	7.50		10.67	
	6/4/2002	18.17	6.45		11.72	
	5/27/2003	18.17	7.40	sheen	10.77	
	6/16/2004	18.17	7.84		10.33	
	6/21/2005	18.17	6.41		11.76	
	6/5/2006	18.17	6.22		11.95	
	10/23/2006	18.17	7.84		10.33	
HA-3	1/27/1993	21.03	8.65		12.38	
	3/12/1993	21.03	9.01		12.02	
	4/14/1993	21.03	8.61		12.42	
	12/15/1993	21.03	9.22		11.81	
	11/4/1994	21.03	10.26		10.77	
	2/22/1995	21.03	8.35		12.68	
	6/16/1995	21.03	9.31		11.72	
	10/20/1995	21.03	9.46		11.57	
	4/4/1996	21.03	7.95		13.08	
	4/16/1996	21.03	8.10		12.93	
	4/2/1997	21.03	6.70		14.33	
	5/1/1997	21.03	8.44		12.59	
	9/18/1997	21.03	9.34		11.69	

TABLE 1

GROUND WATER ELEVATION DATA

Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Date	Reference Elevation [1] (feet msl)	Depth to Water [2] (feet bmp)	LPH Thickness (feet)	Ground Water Elevation [3] (feet msl)	Notes
HA-3 (Cont.)	4/30/1998	21.03	9.20		11.83	
	5/23/2000	21.03	9.25		11.78	
	5/23/2001	21.03	9.18		11.85	
	6/4/2002	21.03	9.07		11.96	
	5/27/2003	21.03	9.30		11.73	
	DRY	21.03	--		--	
	6/22/2005	21.03	8.94		12.09	
	6/5/2006	21.03	8.91		12.12	
	10/23/2006	21.03	9.66		11.37	
HA-4	1/27/1993	20.24	7.68		12.56	
	3/12/1993	20.24	8.56		11.68	
	4/14/1993	20.24	8.02		12.22	
	12/15/1993	20.24	8.41		11.83	
	11/4/1994	20.24	10.14		10.10	
	2/22/1995	20.24	7.09		13.15	
	6/16/1995	20.24	8.78		11.46	
	10/20/1995	20.24	8.54		11.70	
	4/4/1996	20.24	7.68		12.56	
	4/16/1996	20.24	7.11		13.13	
	4/2/1997	20.24	8.00		12.24	
	5/1/1997	20.24	5.49		14.75	
	9/18/1997	20.24	7.70		12.54	
	4/30/1998	20.24	8.67		11.57	
	5/23/2000	20.24	7.35		12.89	
	5/23/2001	20.24	8.95		11.29	
	6/4/2002	20.24	6.45		13.79	
	5/27/2003	20.24	8.64		11.60	
	6/16/2004	20.24	8.67		11.57	
	6/22/2005	20.24	8.58		11.66	
	6/5/2006	20.24	8.04		12.20	
	10/23/2006	20.24	9.00		11.24	
HA-5	1/27/1993	18.07	4.50		13.57	
	3/12/1993	18.07	6.22		11.85	
	4/14/1993	18.07	5.13		12.94	
	12/15/1993	18.07	6.39		11.68	
	11/4/1994	18.07	7.86		10.21	
	2/22/1995	18.07	3.67		14.40	
	6/16/1995	18.07	6.70		11.37	
	10/20/1995	18.07	6.41		11.66	
	4/4/1996	18.07	4.88		13.19	
	4/16/1996	18.07	4.91		13.16	
	5/1/1997	18.07	5.04		13.03	
	9/18/1997	18.07	5.90		12.17	
	5/1/1998	18.07	5.98		12.09	

GROUND WATER ELEVATION DATA
Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Date	Reference Elevation [1] (feet msl)	Depth to Water [2] (feet bmp)	LPH Thickness (feet)	Ground Water Elevation [3] (feet msl)	Notes
HA-5 (Cont.)	7/29/1999	18.07	6.53		11.54	
	5/23/2000	18.07	6.22		11.85	
	5/22/2001	18.07	6.09		11.98	
	6/5/2002	18.07	6.08		11.99	
	5/28/2003	18.07	6.83		11.24	
	6/16/2004	18.07	7.01		11.06	
	6/20/2005	18.07	5.82		12.25	
	6/5/2006	18.07	5.42		12.65	
	10/23/2006	18.07	7.54		10.53	
HA-6	1/27/1993	18.16	4.58		13.58	
	3/12/1993	18.16	6.46		11.70	
	4/14/1993	18.16	5.55		12.61	
	12/15/1993	18.16	7.15		11.01	
	11/4/1994	18.16	8.42		9.74	
	2/22/1995	18.16	4.98		13.18	
	5/15/1995	18.16	5.86		12.30	
	6/16/1995	18.16	6.62		11.54	
	10/20/1995	18.16	6.86		11.30	
	4/4/1996	18.16	4.68		13.48	
	4/16/1996	18.16	4.60		13.56	
	5/10/1996	18.16	4.20		13.96	
	5/15/1996	18.16	4.02		14.14	
	5/22/1996	18.16	4.97		13.19	
	6/5/1996	18.16	5.79		12.37	
	6/24/1996	18.16	6.78		11.38	
	7/15/1996	18.16	7.51		10.65	
	8/23/1996	18.16	8.09		10.07	
	9/18/1996	18.16	8.37		9.79	
	1/3/1997	18.16	2.84		15.32	
	3/12/1997	18.16	4.54		13.62	
	4/2/1997	18.16	4.85		13.31	
	5/1/1997	18.16	5.35		12.81	
	8/19/1997	18.16	7.40		10.76	
	8/26/1997	18.16	7.60		10.56	
	9/17/1997	18.16	6.44		11.72	
	5/1/1998	18.16	5.95		12.21	
	7/30/1999	18.16	6.54		11.62	
	5/22/2000	18.16	6.21		11.95	
	5/22/2001	18.16	6.36		11.80	
	6/5/2002	18.16	6.00		12.16	
	5/28/2003	18.16	6.93	sheen	11.23	
	6/16/2004	18.16	7.45		10.71	
	6/20/2005	18.16	5.76		12.40	
	6/5/2006	18.16	5.39		12.77	

GROUND WATER ELEVATION DATA
Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Date	Reference Elevation [1] (feet msl)	Depth to Water [2] (feet bmp)	LPH Thickness (feet)	Ground Water Elevation [3] (feet msl)	Notes
HA-6 (Cont.)	10/23/2006	18.16	7.72		10.44	
HA-7	1/27/1993	18.44	6.33	2.22	13.73	Used LPH density 0.73
	3/12/1993	18.44	7.30	0.61	11.59	Used LPH density 0.73
	4/14/1993	18.44	7.00	1.23	12.34	Used LPH density 0.73
	6/30/1993	18.44	7.36	0.84	11.69	Used LPH density 0.73
	12/15/99	18.44	7.80	0.55	11.04	Used LPH density 0.73
	2/8/1994	18.44	6.14	0.50	12.67	Used LPH density 0.73
	8/12/1994	18.44	9.09	0.53	9.74	Used LPH density 0.73
	9/21/1994	18.44	9.39	0.47	9.39	Used LPH density 0.73
	11/4/1994	18.44	9.15	0.51	9.66	Used LPH density 0.73
	12/23/1994	18.44	4.07	0.19	14.51	Used LPH density 0.73
	2/3/1995	18.44	3.94	0.40	14.79	Used LPH density 0.73
	2/22/1995	18.44	4.75	0.48	14.04	Used LPH density 0.73
	3/24/1995	18.44	5.30	0.45	13.47	Used LPH density 0.73
	4/27/1995	18.44	5.85	0.50	12.96	Used LPH density 0.73
	5/15/1995	18.44	6.44	0.55	12.40	Used LPH density 0.73
	6/16/1995	18.44	7.16	0.58	11.70	Used LPH density 0.73
	8/25/1995	18.44	7.72	0.42	11.03	Used LPH density 0.73
	10/20/1995	18.44	7.45	0.40	11.28	Used LPH density 0.73
	4/4/1996	18.44	5.38	0.63	13.52	Used LPH density 0.73
	4/16/1996	18.44	5.17	0.62	13.72	Used LPH density 0.73
	5/10/1996	18.44	4.89	0.64	14.02	Used LPH density 0.73
	5/15/1996	18.44	4.62	0.63	14.28	Used LPH density 0.73
	5/22/1996	18.44	6.35	0.86	12.72	Used LPH density 0.73
	6/5/1996	18.44	6.92	0.72	12.05	Used LPH density 0.73
	6/24/1996	18.44	7.72	0.67	11.21	Used LPH density 0.73
	7/15/1996	18.44	8.32	0.57	10.54	Used LPH density 0.73
	8/23/1996	18.44	8.90	0.55	9.94	Used LPH density 0.73
	9/18/1996	18.44	9.19	0.57	9.67	Used LPH density 0.73
	1/3/1997	18.44	3.67	0.66	15.25	Used LPH density 0.73
	3/12/1997	18.44	5.86	0.83	13.19	Used LPH density 0.73
	4/2/1997	18.44	6.17	0.78	12.84	Used LPH density 0.73
	5/1/1997	18.44	6.58	0.83	12.47	Used LPH density 0.73
	7/8/1997	18.44	5.67	0.06	12.81	Used LPH density 0.73
	8/19/1997	18.44	7.62		10.82	
	8/26/1997	18.44	7.93	0.05	10.55	Used LPH density 0.73
	9/18/1997	18.44	8.70	0.06	9.78	Used LPH density 0.73
	4/30/1998	18.44	6.07	0.08	12.43	Used LPH density 0.73
	7/29/1999	18.44	6.82		11.62	
	5/22/2000	18.44	6.18		12.26	
	5/22/2001	18.44	6.74		11.70	
	6/5/2002	18.44	6.11		12.33	
	5/28/2003	18.44	7.08	sheen	11.36	
	6/15/2004	18.44	7.83		10.61	

GROUND WATER ELEVATION DATA
Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Date	Reference Elevation [1] (feet msl)	Depth to Water [2] (feet bmp)	LPH Thickness (feet)	Ground Water Elevation [3] (feet msl)	Notes
HA-7 (Cont.)	6/20/2005	18.44	5.71		12.73	
	6/5/2006	18.44	5.28		13.16	
	10/23/2006	18.44	7.86		10.58	
HA-8	1/27/1993	18.88	4.60		14.28	
	3/12/1993	18.88	6.79		12.09	
	4/14/1993	18.88	5.20		13.68	
	12/15/1993	18.88	7.18		11.70	
	11/4/1994	18.88	8.85		10.03	
	2/22/1995	18.88	4.03		14.85	
	6/16/1995	18.88	7.13		11.75	
	10/20/1995	18.88	7.09		11.79	
	4/4/1996	18.88	5.32		13.56	
	4/16/1996	18.88	5.18		13.70	
	5/1/1997	18.88	5.01		13.87	
	8/26/1997	18.88	7.99		10.89	
	9/18/1997	18.88	6.90		11.98	
	5/1/1998	18.88	6.25		12.63	
	7/29/1999	18.88	7.93		10.95	
	5/22/2000	18.88	6.10		12.78	
	5/22/2001	18.88	6.65		12.23	
	6/5/2002	18.88	6.54		12.34	
	5/28/2003	18.88	7.30		11.58	
	6/15/2004	18.88	8.21	0.51	11.04	Used LPH density 0.73
	6/20/2005	18.88	6.27	0.11	12.69	Used LPH density 0.73
	6/5/2006	18.88	5.38	0.06	13.54	Used LPH density 0.73
	10/23/2006	18.88	8.26	0.02	10.63	
HA-9	1/27/1993	19.40	7.00		12.40	
	3/12/1993	19.40	7.95		11.45	
	4/14/1993	19.40	7.74		11.66	
	12/15/1993	19.40	7.82		11.58	
	11/4/1994	19.40	9.75		9.65	
	2/22/1995	19.40	7.61		11.79	
	6/16/1995	19.40	8.17		11.23	
	10/20/1995	19.40	8.08		11.32	
	4/4/1996	19.40	7.30		12.10	
	4/16/1996	19.40	7.28		12.12	
	4/2/1997	19.40	7.76		11.64	
	5/1/1997	19.40	7.78		11.62	
	9/18/1997	19.40	7.95		11.45	
	4/29/1998	19.40	7.99		11.41	
	7/28/1999	19.40	8.23		11.17	
	5/24/2000	19.40	9.25		10.15	
	5/23/2001	19.40	7.92		11.48	
	6/4/2002	19.40	8.01		11.39	

GROUND WATER ELEVATION DATA
Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Date	Reference Elevation [1] (feet msl)	Depth to Water [2] (feet bmp)	LPH Thickness (feet)	Ground Water Elevation [3] (feet msl)	Notes
HA-9 (Cont.)	5/28/2003	19.40	8.05	sheen	11.35	
	6/17/2004	19.40	8.18		11.22	
	6/20/2005	19.40	7.98		11.42	
	6/5/2006	19.40	7.62		11.78	
	10/23/2006	19.40	8.32		11.08	
HA-10	1/27/1993	19.40	6.88		12.45	
	3/12/1993	19.40	8.94		10.39	
	4/14/1993	19.40	8.73		10.60	
	12/15/1993	19.40	8.05		11.28	
	11/4/1994	19.40	NM	NM	NM	
	2/22/1995	19.40	8.14		11.19	
	6/16/1995	19.40	9.18		10.15	
	10/20/1995	19.40	7.83		11.50	
	4/4/1996	19.40	7.67		11.66	
	4/16/1996	19.40	7.29		12.04	
	7/15/1996	19.40	9.40		9.93	
	4/2/1997	19.40	8.74		10.59	
	5/1/1997	19.40	8.26		11.07	
	5/23/2001	19.40	8.86		10.47	
	6/6/2002	19.40	9.80		9.53	
	5/27/2003	19.40	9.31		10.02	
	6/17/2004	19.40	9.17		10.16	
	6/21/2005	19.40	8.58		10.75	
	6/5/2006	19.40	7.84		11.49	
	10/23/2006	19.40	9.09		10.24	
HA-11	1/27/1993	18.51	5.80		12.71	
	3/12/1993	18.51	7.97		10.54	
	4/14/1993	18.51	7.33		11.18	
	12/15/1993	18.51	7.18		11.33	
	11/4/1994	18.51	9.77		8.74	
	2/22/1995	18.51	7.49		11.02	
	6/16/1995	18.51	8.25		10.26	
	10/20/1995	18.51	7.62		10.89	
	4/4/1996	18.51	6.95		11.56	
	4/16/1996	18.51	6.60		11.91	
	4/2/1997	18.51	7.95		10.56	
	5/1/1997	18.51	7.96		10.55	
	4/29/1998	18.51	7.89		10.62	
	7/28/1999	18.51	8.08		10.43	
	5/24/2000	18.51	7.75		10.76	
	5/23/2001	18.51	8.40		10.11	
	6/4/2002	18.51	7.77		10.74	
	5/27/2003	18.51	8.33		10.18	
	DRY	18.51	--		--	

GROUND WATER ELEVATION DATA

Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Date	Reference Elevation [1] (feet msl)	Depth to Water [2] (feet bmp)	LPH Thickness (feet)	Ground Water Elevation [3] (feet msl)	Notes
HA-11 (Cont.)	6/21/2005	18.51	7.85		10.66	
	6/5/2006	18.51	7.57		10.49	
	10/23/2006	18.51	8.60		9.91	
HA-12	1/27/1993	19.91	4.01		15.90	
	3/12/1993	19.91	7.36		12.55	
	4/14/1993	19.91	5.92		13.99	
	12/15/1993	19.91	7.02		12.89	
	11/4/1994	19.91	9.06		10.85	
	2/22/1995	19.91	3.80		16.11	
	6/16/1995	19.91	7.40		12.51	
	10/20/1995	19.91	7.40		12.51	
	4/4/1996	19.91	5.65		14.26	
	4/16/1996	19.91	5.26		14.65	
	5/1/1997	19.91	6.13		13.78	
	8/26/1997	19.91	8.58		11.33	
	9/18/1997	19.91	8.70		11.21	
	5/1/1998	19.91	6.65		13.26	
	7/29/1999	19.91	7.46		12.45	
	5/22/2000	19.91	7.63		12.28	
	5/22/2001	19.91	7.29		12.62	
	6/5/2002	19.91	7.06		12.85	
	5/28/2003	19.91	7.84		12.07	
	6/16/2004	19.91	8.43		11.48	
	6/21/2005	19.91	6.67		13.24	
	6/5/2006	19.91	5.91		14.00	
	10/23/2006	19.91	8.71		11.20	
HA-13	1/27/1993	19.56	5.32		14.24	
	3/12/1993	19.56	8.23		11.33	
	4/14/1993	19.56	7.08		12.48	
	12/15/1993	19.56	6.34		13.22	
	11/4/1994	19.56	8.93		10.63	
	2/22/1995	19.56	4.54		15.02	
	6/16/1995	19.56	8.83		10.73	
	10/20/1995	19.56	8.23		11.33	
	4/4/1996	19.56	7.06		12.50	
	4/16/1996	19.56	7.31		12.25	
	5/1/1997	19.56	7.01		12.55	
	9/18/1997	19.56	6.93		12.63	
	4/30/1998	19.56	8.26		11.30	
	7/28/1999	19.56	8.62		10.94	
	5/22/2000	19.56	8.45		11.11	
	5/22/2001	19.56	8.20		11.36	
	6/4/2002	19.56	8.41		11.15	
	5/27/2003	19.56	8.89		10.67	

GROUND WATER ELEVATION DATA

Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Date	Reference Elevation [1] (feet msl)	Depth to Water [2] (feet bmp)	LPH Thickness (feet)	Ground Water Elevation [3] (feet msl)	Notes
HA-13 (Cont.)	6/16/2004	19.56	7.99		11.57	
	6/21/2005	19.56	8.34		11.22	
	6/5/2006	19.56	7.74		11.82	
	10/23/2006	19.56	9.45		10.11	
HA-14	1/27/1993	20.02	6.10		13.92	
	3/12/1993	20.02	8.80		11.22	
	4/14/1993	20.02	7.04		12.98	
	12/15/1993	20.02	8.56		11.46	
	11/4/1994	20.02	8.35		11.67	
	2/22/1995	20.02	5.10		14.92	
	6/16/1995	20.02	9.51		10.51	
	10/20/1995	20.02	8.77		11.25	
	4/4/1996	20.02	7.52		12.50	
	4/16/1996	20.02	6.01		14.01	
	5/1/1997	20.02	6.92		13.10	
	9/18/1997	20.02	8.17		11.85	
	4/30/1998	20.02	9.05		10.97	
	7/29/1999	20.02	9.49		10.53	
	5/22/2000	20.02	9.22		10.80	
	5/22/2001	20.02	9.03		10.99	
	6/4/2002	20.02	8.41		11.61	
	5/27/2003	20.02	9.48		10.54	
	6/16/2004	20.02	9.69		10.33	
	6/21/2005	20.02	9.15		10.87	
	6/5/2006	20.02	7.96		12.06	
	10/23/2006	20.02	10.18		9.84	
HB-1	12/7/1993					
	DISCONTINUED SAMPLING					
HB-2	12/7/1993					
	DISCONTINUED SAMPLING					
R-1	1/27/1993	16.94	5.22	0.05	11.76	Used LPH density 0.73
	3/12/1993	16.94	11.80	0.10	5.21	Used LPH density 0.73
	6/30/1993	16.94	6.88	0.01	10.07	Used LPH density 0.73
	12/15/1993	16.94	NM		NM	
	2/8/1994	16.94	NM		NM	
	7/8/1994	16.94	NM		NM	
	8/12/1994	16.94	NM		NM	
	9/21/1994	16.94	NM		NM	
	11/4/1994	16.94	NM		NM	
	12/23/1994	16.94	3.43		13.51	
	2/3/1995	16.94	4.10	0.10	12.91	Used LPH density 0.73
	2/22/1995	16.94	5.28	0.13	11.75	Used LPH density 0.73
	3/24/1995	16.94	5.55	0.40	11.68	Used LPH density 0.73
	4/27/1995	16.94	5.62	0.32	11.55	Used LPH density 0.73

GROUND WATER ELEVATION DATA
Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Date	Reference Elevation [1] (feet msl)	Depth to Water [2] (feet bmp)	LPH Thickness (feet)	Ground Water Elevation [3] (feet msl)	Notes
R-1 (Cont.)	5/15/1995	16.94	4.91	0.47	12.37	Used LPH density 0.73
	6/16/1995	16.94	5.29	0.44	11.97	Used LPH density 0.73
	8/25/1995	16.94	5.85	0.20	11.24	Used LPH density 0.73
	9/26/1995	16.94	7.67	0.19	9.41	Used LPH density 0.73
	10/20/1995	16.94	6.17	0.02	10.78	Used LPH density 0.73
	4/4/1996	16.94	3.82	0.15	13.23	Used LPH density 0.73
	4/16/1996	16.94	3.14	0.14	13.90	Used LPH density 0.73
	5/10/1996	16.94	2.72	0.11	14.30	Used LPH density 0.73
	5/15/1996	16.94	2.67	0.06	14.31	Used LPH density 0.73
	5/22/1996	16.94	7.83		9.11	
	6/5/1996	16.94	8.62		8.32	
	6/24/1996	16.94	8.50		8.44	
	7/15/1996	16.94	8.63		8.31	
	8/23/1996	16.94	8.53		8.41	
	9/18/1996	16.94	8.34		8.60	
	1/3/1997	16.94	3.11		13.83	
	3/12/1997	16.94	8.91		8.03	
	4/2/1997	16.94	11.04	0.05	5.94	Used LPH density 0.73
	7/8/1997	16.94	5.71		11.23	
	8/26/1997	16.94	11.02		5.92	
	9/17/1997	16.94	10.84		6.10	
	4/30/1998	16.94	4.60	0.02	12.35	Used LPH density 0.73
	5/24/2001	16.94	10.75		6.19	
	6/5/2002	16.94	NM	NM	NM	
	5/27/2003	16.94	NM	NM	NM	
	6/20/2005	16.94	NM	NM	NM	
	6/5/2006	16.94	NM	NM	NM	
	10/23/2006	16.94	NM	NM	NM	
R-2	1/27/1993	17.52	6.15		11.37	
	3/12/1993	17.52	7.20		10.32	
	12/15/1993	17.52	NM		NM	
	11/4/1994	17.52	NM		NM	
	2/22/1995	17.52	7.66		9.86	
	5/15/1995	17.52	7.87		9.65	
	6/16/1995	17.52	7.51	0.01	10.02	Used LPH density 0.73
	9/26/1995	17.52	7.81	0.01	9.72	Used LPH density 0.73
	10/20/1995	17.52	7.63	0.06	9.93	Used LPH density 0.73
	4/4/1996	17.52	5.55		11.97	
	4/16/1996	17.52	5.29		12.23	
	5/10/1996	17.52	5.21		12.31	
	5/15/1996	17.52	5.10		12.42	
	5/22/1996	17.52	7.59	0.02	9.94	Used LPH density 0.73
	6/5/1996	17.52	7.80	0.18	9.85	Used LPH density 0.73
	6/24/1996	17.52	7.72	0.03	9.82	Used LPH density 0.73

GROUND WATER ELEVATION DATA

Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Date	Reference Elevation [1] (feet msl)	Depth to Water [2] (feet bmp)	LPH Thickness (feet)	Ground Water Elevation [3] (feet msl)	Notes
R-2 (Cont.)	7/15/1996	17.52	7.60	0.04	9.95	Used LPH density 0.73
	8/23/1996	17.52	7.77	0.02	9.76	Used LPH density 0.73
	9/18/1996	17.52	7.87	0.04	9.68	Used LPH density 0.73
	1/3/1997	17.52	4.25		13.27	
	3/12/1997	17.52	8.02	0.02	9.51	Used LPH density 0.73
	4/2/1997	17.52	7.72	0.11	9.88	Used LPH density 0.73
	7/8/1997	17.52	6.47		11.05	
	8/19/1997	17.52	7.76	0.02	9.77	Used LPH density 0.73
	9/17/1997	17.52	7.67		9.85	
	4/30/1998	17.52	6.43	0.03	11.11	Used LPH density 0.73
	5/24/2001	17.52	8.25	0.35	9.53	Used LPH density 0.73
	6/5/2002	17.52	NM	NM	NM	
	5/27/2003	17.52	NM	NM	NM	
	6/20/2005	17.52	NM	NM	NM	
	6/5/2006	17.52	NM	NM	NM	
	10/23/2006	17.52	NM	NM	NM	
W-1	1/27/1993	18.86	5.71	0.19	13.29	Used LPH density 0.73
	3/12/1993	18.86	8.24	0.06	10.66	Used LPH density 0.73
	4/14/1993	18.86	8.22		10.64	
	6/30/1993	18.86	8.25	0.08	10.67	Used LPH density 0.73
	12/15/1993	18.86	8.60		10.26	
	2/8/1994	18.86	6.51	0.13	12.44	Used LPH density 0.73
	7/8/1994	18.86	8.64		10.22	
	8/12/1994	18.86	8.63		10.23	
	9/21/1994	18.86	NM	NM	NM	
	11/4/1994	18.86	NM	NM	NM	
	12/23/1994	18.86	5.48		13.38	
	2/3/1995	18.86	5.24		13.62	
	2/22/1995	18.86	7.13	0.03	11.75	Used LPH density 0.73
	3/24/1995	18.86	7.04	0.14	11.92	Used LPH density 0.73
	4/27/1995	18.86	6.75		12.11	
	5/15/1995	18.86	6.88	0.39	12.26	Used LPH density 0.73
	6/16/1995	18.86	7.34	0.45	11.85	Used LPH density 0.73
	8/25/1995	18.86	7.89	0.18	11.10	Used LPH density 0.73
	10/20/1995	18.86	8.60	0.12	10.35	Used LPH density 0.73
	4/4/1996	18.86	5.81	0.07	13.10	Used LPH density 0.73
	4/16/1996	18.86	5.07	0.12	13.88	Used LPH density 0.73
	5/10/1996	18.86	4.75	0.09	14.18	Used LPH density 0.73
	5/15/1996	18.86	4.74	0.11	14.20	Used LPH density 0.73
	5/22/1996	18.86	8.08	0.07	10.83	Used LPH density 0.73
	6/5/1996	18.86	8.12	0.02	10.75	Used LPH density 0.73
	6/24/1996	18.86	8.28	0.01	10.59	Used LPH density 0.73
	7/15/1996	18.86	8.52	0.08	10.40	Used LPH density 0.73
	8/23/1996	18.86	8.63		10.23	

GROUND WATER ELEVATION DATA
Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Date	Reference Elevation [1] (feet msl)	Depth to Water [2] (feet bmp)	LPH Thickness (feet)	Ground Water Elevation [3] (feet msl)	Notes
W-1 (Cont.)	9/18/1996	18.86	8.63		10.23	
	1/3/1997	18.86	4.97		13.89	
	3/12/1997	18.86	8.08		10.78	
	4/2/1997	18.86	8.14	0.03	10.74	Used LPH density 0.73
	5/1/1997	18.86	8.18		10.68	
	8/19/1997	18.86	8.57		10.29	
	9/17/1997	18.86	8.20		10.66	
	4/30/1998	18.86	6.70	0.08	12.22	Used LPH density 0.73
	7/28/1999	18.86	7.18	0.12	11.77	Used LPH density 0.73
	5/23/2000	18.86	6.91		11.95	
	5/24/2001	18.86	8.45	0.01	10.42	Used LPH density 0.73
	6/5/2002	18.86	6.42		12.44	
	5/29/2003	18.86	7.91	sheen	10.95	
	6/16/2004	18.86	7.65	0.02	11.22	Used LPH density 0.73
	6/20/2005	18.86	6.31		12.55	
	6/5/2006	18.86	5.99		12.87	
	10/23/2006	18.86	8.22		10.64	
W-2	1/27/1993	18.28	5.11	0.16	13.29	Used LPH density 0.73
	3/12/1993	18.28	7.94	0.02	10.35	Used LPH density 0.73
	4/14/1993	18.28	7.96	0.02	10.33	Used LPH density 0.73
	6/30/1993	18.28	7.65	0.09	10.70	Used LPH density 0.73
	12/15/1993	18.28	8.04		10.24	
	2/8/1994	18.28	5.93	0.13	12.44	Used LPH density 0.73
	7/8/1994	18.28	8.69		9.59	
	8/12/1994	18.28	8.98		9.30	
	9/21/1994	18.28	9.38	0.18	9.03	Used LPH density 0.73
	11/4/1994	18.28	9.51	0.37	9.04	Used LPH density 0.73
	12/23/1994	18.28	4.92		13.36	
	2/3/1995	18.28	5.16		13.12	
	2/22/1995	18.28	6.57	0.06	11.75	Used LPH density 0.73
	3/24/1995	18.28	6.48	0.14	11.90	Used LPH density 0.73
	4/27/1995	18.28	5.65		12.63	
	5/15/1995	18.28	6.48	0.57	12.22	Used LPH density 0.73
	6/16/1995	18.28	6.93	0.60	11.79	Used LPH density 0.73
	8/25/1995	18.28	7.36	0.22	11.08	Used LPH density 0.73
	10/20/1995	18.28	7.67		10.61	
	4/4/1996	18.28	5.19	0.02	13.10	Used LPH density 0.73
	4/16/1996	18.28	4.40		13.88	
	5/10/1996	18.28	4.10		14.18	
	5/15/1996	18.28	4.08		14.20	
	5/22/1996	18.28	7.59		10.69	
	6/5/1996	18.28	7.69		10.59	
	6/24/1996	18.28	8.08		10.20	
	7/15/1996	18.28	8.45		9.83	

GROUND WATER ELEVATION DATA
Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Date	Reference Elevation [1] (feet msl)	Depth to Water [2] (feet bmp)	LPH Thickness (feet)	Ground Water Elevation [3] (feet msl)	Notes
W-2 (Cont.)	8/23/1996	18.28	8.80		9.48	
	9/18/1996	18.28	8.98		9.30	
	1/3/1997	18.28	4.48		13.80	
	3/12/1997	18.28	7.57		10.71	
	4/2/1997	18.28	7.60		10.68	
	5/1/1997	18.28	7.72		10.56	
	8/19/1997	18.28	8.10		10.18	
	9/18/1997	18.28	7.40	0.07	10.93	Used LPH density 0.73
	4/30/1998	18.28	6.11	0.07	12.22	Used LPH density 0.73
	7/29/1999	18.28	6.50		11.78	
	5/23/2000	18.28	6.33		11.95	
	5/24/2001	18.28	8.10		10.18	
	6/5/2002	18.28	5.87	0.02	12.41	Used LPH density 0.73
	5/28/2003	18.28	7.32	sheen	10.96	
	6/15/2004	18.28	8.55		9.73	
	6/22/2005	18.28	5.71		12.57	
	6/5/2006	18.28	5.38		12.90	
	10/23/2006	18.28	7.63		10.65	
W-3	1/27/1993	17.10	5.42		11.68	
	3/12/1993	17.10	6.11		10.99	
	4/14/1993	17.10	5.88		11.22	
	12/15/1993	17.10	5.59		11.51	
	11/4/1994	17.10	7.72		9.38	
	2/22/1995	17.10	5.82		11.28	
	6/16/1995	17.10	6.37		10.73	
	10/20/1995	17.10	6.17		10.93	
	4/4/1996	17.10	5.19		11.91	
	4/16/1996	17.10	4.86		12.24	
	5/10/1996	17.10	4.83		12.27	
	5/15/1996	17.10	4.71		12.39	
	5/22/1996	17.10	5.78		11.32	
	6/5/1996	17.10	6.07		11.03	
	6/24/1996	17.10	6.30		10.80	
	7/15/1996	17.10	6.65		10.45	
	9/18/1996	17.10	6.37		10.73	
	1/3/1997	17.10	3.72		13.38	
	4/2/1997	17.10	5.83	0.04	11.30	Used LPH density 0.73
	5/1/1997	17.10	5.80		11.30	
	9/17/1997	17.10				
	4/29/1998	17.10	5.81		11.29	
	7/30/1999	17.10	6.11		10.99	
	5/23/2000	17.10	5.55		11.55	
	5/22/2001	17.10	6.10		11.00	
	6/4/2002	17.10	5.78		11.32	

GROUND WATER ELEVATION DATA
Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Date	Reference Elevation [1] (feet msl)	Depth to Water [2] (feet bmp)	LPH Thickness (feet)	Ground Water Elevation [3] (feet msl)	Notes
W-3 (Cont.)	5/28/2003	17.10	6.26		10.84	
	6/16/2004	17.10	6.23	0.02	10.88	Used LPH density 0.73
	6/21/2005	17.10	5.75		11.35	
	6/5/2006	17.10	5.43		11.67	
	10/23/2006	17.10	6.22		10.88	
W-4	1/27/1993	18.03	4.43		13.60	
	3/12/1993	18.03	7.43		10.60	
	4/14/1993	18.03	7.32		10.71	
	12/15/1993	18.03	6.59		11.44	
	11/4/1994	18.03	8.20		9.83	
	2/22/1995	18.03	7.17		10.86	
	6/16/1995	18.03	7.55		10.48	
	10/20/1995	18.03	7.67		10.36	
	4/4/1996	18.03	6.12		11.91	
	4/16/1996	18.03	5.74		12.29	
	5/10/1996	18.03	5.99		12.04	
	5/15/1996	18.03	5.67		12.36	
	5/22/1996	18.03	7.20		10.83	
	6/5/1996	18.03	7.41		10.62	
	6/24/1996	18.03	7.49		10.54	
	7/15/1996	18.03	7.73		10.30	
	1/3/1997	18.03	4.80		13.23	
	4/2/1997	18.03	7.37		10.66	
	5/1/1997	18.03	7.34		10.69	
	9/17/1997	18.03	--		--	
	4/29/1998	18.03	6.84		11.19	
	7/30/1999	18.03	7.30		10.73	
	5/23/2001	18.03	7.71	0.03	10.34	Used LPH density 0.73
	6/4/2002	18.03	6.84		11.19	
	5/28/2003	18.03	7.68	sheen	10.35	
	6/15/2004	18.03	7.65	0.02	10.39	Used LPH density 0.73
	6/21/2005	18.03	6.78		11.25	
	6/5/2006	18.03	6.23		11.80	
	10/23/2006	18.03	7.67		10.36	

Notes

[1] Reference elevation (i.e., top of casing) relative to MSL (from Kleinfelder reports).

[2] Depth in feet, measured from top of polyvinyl chloride well casing.

[3] MSL elevation in feet, corrected for LPH thickness, if applicable, using density stated in "Notes" column.

bmp = below measuring point

LPH = liquid phase hydrocarbons

msl = mean sea level

NM = not measured

TABLE 2

**GROUND WATER ANALYTICAL DATA, TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, DIESEL, AND MOTOR OIL,
BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES**

Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Sample Date	NWTPH-Gx [1] µg/L	NWTPH-Dx Diesel Range (C12-C24) [2] µg/L	NWTPH-Dx Heavy Oil Range (C24-C40) [2] µg/L	Benzene [3] µg/L	Toluene [3] µg/L	Ethyl Benzene [3] µg/L	Total Xylenes [3] µg/L
Cleanup Level [4]		800/1,000*	500	500	5	1000	700	1000
B-1	1/27/1993	--	--	--	--	--	--	--
	3/12/1993	--	--	--	--	--	--	--
	4/14/1993	18,000	--	--	1,300	17	450	2,200
	6/30/1993	--	--	--	--	--	--	--
	12/15/1993	7,800	--	--	590	76	15	370
	11/4/1994	--	--	--	--	--	--	--
	2/22/1995	--	--	--	--	--	--	--
	5/15/1995	--	--	--	--	--	--	--
	6/16/1995	--	--	--	--	--	--	--
	10/20/1995	--	--	--	--	--	--	--
	4/4/1996	--	--	--	--	--	--	--
	4/16/1996	--	--	--	--	--	--	--
	5/10/1996	--	--	--	--	--	--	--
	5/15/1996	--	--	--	--	--	--	--
	5/22/1996	--	--	--	--	--	--	--
	6/5/1996	--	--	--	--	--	--	--
	6/24/1996	--	--	--	--	--	--	--
	7/15/1996	--	--	--	--	--	--	--
	1/3/1997	--	--	--	--	--	--	--
	3/12/1997	--	--	--	--	--	--	--
	4/2/1997	--	--	--	--	--	--	--
	5/1/1997	--	--	--	--	--	--	--
	8/19/1997	--	--	--	--	--	--	--
	9/17/1997	475	9,980	25,500	84.6	2.63	6.43	21.8
	5/1/1998	560	5,500	13,000	300	10	24	94
	5/23/2000	1,800	23,000	52,000	1,000	14	170	160
	5/24/2001	2,800	5,500	6,300	1,300	25	410	220
	6/5/2002	86J	17,000	29,000	37	0.66J	6.6	6.9
	5/29/2003	1,100J	4,700	8,300	760	26	180	65
	6/15/2004	1,600	8,700	18,000	890	10	180	110
	6/20/2005	550J	2,700J	5,300J	540	5.5	79	45
	6/6/2006	3300j	1,570	553	602	5.87	137	43.9
	10/24/2006	3,770	884	800	363	6.65	113	26.8
B-2	1/27/1993	--	--	--	--	--	--	--
	3/12/1993	--	--	--	--	--	--	--
	4/14/1993	--	--	--	--	--	--	--
	6/30/1993	--	--	--	--	--	--	--
	12/15/1993	--	--	--	--	--	--	--
	2/8/1994	--	--	--	--	--	--	--
	7/8/1994	--	--	--	--	--	--	--

**GROUND WATER ANALYTICAL DATA, TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, DIESEL, AND MOTOR OIL,
BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES**

Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Sample Date	NWTPH-Gx [1] µg/L	NWTPH-Dx Diesel Range (C12-C24) [2] µg/L	NWTPH-Dx Heavy Oil Range (C24-C40) [2] µg/L	Benzene [3] µg/L	Toluene [3] µg/L	Ethyl Benzene [3] µg/L	Total Xylenes [3] µg/L
Cleanup Level [4]		800/1,000*	500	500	5	1000	700	1000
B-2 (cont.)	8/12/1994	--	--	--	--	--	--	--
	9/21/1994	--	--	--	--	--	--	--
	11/4/1994	--	--	--	--	--	--	--
	12/23/1994	--	--	--	--	--	--	--
	2/3/1995	--	--	--	--	--	--	--
	2/22/1995	--	--	--	--	--	--	--
	5/15/1995	--	--	--	--	--	--	--
	6/16/1995	--	--	--	--	--	--	--
	10/20/1995	--	--	--	--	--	--	--
	4/4/1996	--	--	--	--	--	--	--
	4/16/1996	--	--	--	--	--	--	--
	5/10/1996	--	--	--	--	--	--	--
	5/15/1996	--	--	--	--	--	--	--
	5/22/1996	--	--	--	--	--	--	--
	6/5/1996	--	--	--	--	--	--	--
	6/24/1996	--	--	--	--	--	--	--
	7/15/1996	--	--	--	--	--	--	--
	8/23/1996	--	--	--	--	--	--	--
	9/18/1996	--	--	--	--	--	--	--
	1/3/1997	--	--	--	--	--	--	--
	3/12/1997	--	--	--	--	--	--	--
	4/2/1997	--	--	--	--	--	--	--
	5/1/1997	--	--	--	--	--	--	--
	7/8/1997	--	--	--	--	--	--	--
	8/19/1997	--	--	--	--	--	--	--
	8/26/1997	--	--	--	--	--	--	--
	9/18/1997	1,980,000	74,200	7,890	11,200	10,600	1,310	22,200
	4/29/1998	83,000	19,000	4,300	16,000	13,000	600	11,000
	7/30/1999	66,000	18,000	<2.0	11,000	7,900	700	9,700
	5/23/2000	59,000	32,000	<5.0	16,000	6,200	670	9,300
	5/24/2001	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/5/2002	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	5/29/2003	59,000	36,000	2,700J	8,800	2,200	900	9,600
	6/15/2004	57,000	68,000	<9700	8,700	510	1,300	8,700
	6/20/2005	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/6/2006	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	10/23/2006	47,000	10,700	<180	7,120	179	289	5,280
B-3	1/27/1993	--	--	--	--	--	--	--
	3/12/1993	--	--	--	--	--	--	--
	4/14/1993	--	--	--	--	--	--	--

**GROUND WATER ANALYTICAL DATA, TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, DIESEL, AND MOTOR OIL,
BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES**

Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Sample Date	NWTPH-Gx [1] µg/L	NWTPH-Dx Diesel Range (C12-C24) [2] µg/L	NWTPH-Dx Heavy Oil Range (C24-C40) [2] µg/L	Benzene [3] µg/L	Toluene [3] µg/L	Ethyl Benzene [3] µg/L	Total Xylenes [3] µg/L
Cleanup Level [4]		800/1,000*	500	500	5	1000	700	1000
B-3 (cont.)	6/30/1993	--	--	--	--	--	--	--
	12/15/1993	--	--	--	--	--	--	--
	2/8/1994	--	--	--	--	--	--	--
	7/8/1994	--	--	--	--	--	--	--
	8/12/1994	--	--	--	--	--	--	--
	9/21/1994	--	--	--	--	--	--	--
	11/4/1994	--	--	--	--	--	--	--
	12/23/1994	--	--	--	--	--	--	--
	2/3/1995	--	--	--	--	--	--	--
	2/22/1995	--	--	--	--	--	--	--
	3/24/1995	--	--	--	--	--	--	--
	4/27/1995	--	--	--	--	--	--	--
	5/15/1995	--	--	--	--	--	--	--
	6/16/1995	--	--	--	--	--	--	--
	8/25/1995	--	--	--	--	--	--	--
	10/20/1995	--	--	--	--	--	--	--
	4/4/1996	--	--	--	--	--	--	--
	4/16/1996	--	--	--	--	--	--	--
	5/10/1996	--	--	--	--	--	--	--
	5/15/1996	--	--	--	--	--	--	--
	5/22/1996	--	--	--	--	--	--	--
	6/5/1996	--	--	--	--	--	--	--
	6/24/1996	--	--	--	--	--	--	--
	7/15/1996	--	--	--	--	--	--	--
	8/23/1996	--	--	--	--	--	--	--
	9/18/1996	--	--	--	--	--	--	--
	1/3/1997	--	--	--	--	--	--	--
	3/12/1997	--	--	--	--	--	--	--
	4/2/1997	--	--	--	--	--	--	--
	5/1/1997	--	--	--	--	--	--	--
	7/8/1997	--	--	--	--	--	--	--
	8/19/1997	--	--	--	--	--	--	--
	8/26/1997	--	--	--	--	--	--	--
	9/18/1997	--	--	--	--	--	--	--
	4/30/1998	--	--	--	--	--	--	--
	7/28/1999	--	--	--	--	--	--	--
	5/23/2000	--	--	--	--	--	--	--
	5/24/2001	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/5/2002	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	5/27/2003	LPH	LPH	LPH	LPH	LPH	LPH	LPH

TABLE 2

**GROUND WATER ANALYTICAL DATA, TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, DIESEL, AND MOTOR OIL,
BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES**

Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Sample Date	NWTPH-Gx [1] µg/L	NWTPH-Dx Diesel Range (C12-C24) [2] µg/L	NWTPH-Dx Heavy Oil Range (C24-C40) [2] µg/L	Benzene [3] µg/L	Toluene [3] µg/L	Ethyl Benzene [3] µg/L	Total Xylenes [3] µg/L
Cleanup Level [4]		800/1,000*	500	500	5	1000	700	1000
B-3 (cont.)	6/15/2004	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/20/2005	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/6/2006	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	10/23/2006	LPH	LPH	LPH	LPH	LPH	LPH	LPH
B-4	1/27/1993	--	--	--	--	--	--	--
	3/12/1993	--	--	--	--	--	--	--
	4/14/1993	--	--	--	--	--	--	--
	6/30/1993	--	--	--	--	--	--	--
	12/15/1993	--	--	--	--	--	--	--
	2/8/1994	--	--	--	--	--	--	--
	7/8/1994	--	--	--	--	--	--	--
	8/12/1994	--	--	--	--	--	--	--
	9/21/1994	--	--	--	--	--	--	--
	11/4/1994	--	--	--	--	--	--	--
	12/23/1994	--	--	--	--	--	--	--
	2/3/1995	--	--	--	--	--	--	--
	2/22/1995	--	--	--	--	--	--	--
	3/24/1995	--	--	--	--	--	--	--
	4/27/1995	--	--	--	--	--	--	--
	5/15/1995	--	--	--	--	--	--	--
	6/16/1995	--	--	--	--	--	--	--
	8/25/1995	--	--	--	--	--	--	--
	10/20/1995	--	--	--	--	--	--	--
	4/4/1996	--	--	--	--	--	--	--
	4/16/1996	--	--	--	--	--	--	--
	5/10/1996	--	--	--	--	--	--	--
	5/15/1996	--	--	--	--	--	--	--
	5/22/1996	--	--	--	--	--	--	--
	6/5/1996	--	--	--	--	--	--	--
	6/24/1996	--	--	--	--	--	--	--
	7/15/1996	--	--	--	--	--	--	--
	8/23/1996	--	--	--	--	--	--	--
	9/18/1996	--	--	--	--	--	--	--
	1/3/1997	--	--	--	--	--	--	--
	3/12/1997	--	--	--	--	--	--	--
	4/2/1997	--	--	--	--	--	--	--
	5/1/1997	--	--	--	--	--	--	--
	8/19/1997	--	--	--	--	--	--	--
	8/26/1997	--	--	--	--	--	--	--
	9/18/1997	1,170,000	99,600	<20,500	2,590	8,520	4,340	26,600

**GROUND WATER ANALYTICAL DATA, TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, DIESEL, AND MOTOR OIL,
BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES**

Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Sample Date	NWTPH-Gx [1] µg/L	NWTPH-Dx Diesel Range (C12-C24) [2] µg/L	NWTPH-Dx Heavy Oil Range (C24-C40) [2] µg/L	Benzene [3] µg/L	Toluene [3] µg/L	Ethyl Benzene [3] µg/L	Total Xylenes [3] µg/L
Cleanup Level [4]		800/1,000*	500	500	5	1000	700	1000
B-4 (cont.)	4/30/1998	--	--	--	--	--	--	--
	7/29/1999	70,000	90,000	<20,000	1,800	1,600	2,300	13,000
	5/23/2000	76,000	51,000	<20,000	1,500	3,500	2,600	13,000
	5/23/2001	52,000	49,000	<20,000	600	2,300	2,500	10,000
	6/5/2002	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	5/29/2003	38,000	34,000	5,200J	280	570	1,400	5,900
	6/15/2004	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/20/2005	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/6/2006	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	10/23/2006	LPH	LPH	LPH	LPH	LPH	LPH	LPH
B-5	1/27/1993	--	--	--	--	--	--	--
	3/12/1993	--	--	--	--	--	--	--
	4/14/1993	--	--	--	--	--	--	--
	6/30/1993	--	--	--	--	--	--	--
	12/15/1993	--	--	--	--	--	--	--
	2/8/1994	--	--	--	--	--	--	--
	7/8/1994	--	--	--	--	--	--	--
	8/12/1994	--	--	--	--	--	--	--
	9/21/1994	--	--	--	--	--	--	--
	11/4/1994	--	--	--	--	--	--	--
	12/23/1994	--	--	--	--	--	--	--
	2/3/1995	--	--	--	--	--	--	--
	2/22/1995	--	--	--	--	--	--	--
	3/24/1995	--	--	--	--	--	--	--
	4/27/1995	--	--	--	--	--	--	--
	5/15/1995	--	--	--	--	--	--	--
	6/16/1995	--	--	--	--	--	--	--
	8/25/1995	--	--	--	--	--	--	--
	10/20/1995	--	--	--	--	--	--	--
	4/4/1996	--	--	--	--	--	--	--
	4/16/1996	--	--	--	--	--	--	--
	5/10/1996	--	--	--	--	--	--	--
	5/15/1996	--	--	--	--	--	--	--
	5/22/1996	--	--	--	--	--	--	--
	6/5/1996	--	--	--	--	--	--	--
	6/24/1996	--	--	--	--	--	--	--
	7/15/1996	--	--	--	--	--	--	--
	8/23/1996	--	--	--	--	--	--	--
	9/18/1996	--	--	--	--	--	--	--
	1/3/1997	--	--	--	--	--	--	--

TABLE 2

**GROUND WATER ANALYTICAL DATA, TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, DIESEL, AND MOTOR OIL,
BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES**

Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Sample Date	NWTPH-Gx [1] µg/L	NWTPH-Dx Diesel Range (C12-C24) [2] µg/L	NWTPH-Dx Heavy Oil Range (C24-C40) [2] µg/L	Benzene [3] µg/L	Toluene [3] µg/L	Ethyl Benzene [3] µg/L	Total Xylenes [3] µg/L
Cleanup Level [4]		800/1,000*	500	500	5	1000	700	1000
B-5 (cont.)	3/12/1997	--	--	--	--	--	--	--
	4/2/1997	--	--	--	--	--	--	--
	5/1/1997	--	--	--	--	--	--	--
	8/19/1997	--	--	--	--	--	--	--
	8/26/1997	--	--	--	--	--	--	--
	9/17/1997	38,900	28,100	8,980	2,810	3,750	631	5,180
	4/29/1998	28,000	81,000	17,000	1,600	1,100	460	4,600
	7/29/1999	21,000	18,000	<2,000	1,200	240	330	2,600
	5/23/2000	11,000	15,000	4,000J	690	59	230	960
	5/23/2001	10,000	13,000	3,500J	2,000	120	320	2,100
	6/5/2002	4,300	16,000	4,800J	940	23	230	560
	5/29/2003	3,300	4,300	1,600J	440	26	260	260
	6/15/2004	2,600	100,000	25,000	830	23	110	310
	6/22/2005	980J	36,000	17,000J	630	6.7	70	140
	6/6/2006	4540j	2,860	271u	944	14.4	214	507
B-6	10/23/2006	9,010	6,440	605	1,950	23.8	372	904
	1/27/1993	--	--	--	--	--	--	--
	3/12/1993	--	--	--	--	--	--	--
	4/14/1993	--	--	--	--	--	--	--
	6/30/1993	--	--	--	--	--	--	--
	12/15/1993	--	--	--	--	--	--	--
	2/8/1994	--	--	--	--	--	--	--
	7/8/1994	--	--	--	--	--	--	--
	8/12/1994	--	--	--	--	--	--	--
	9/21/1994	--	--	--	--	--	--	--
	11/4/1994	--	--	--	--	--	--	--
	12/23/1994	--	--	--	--	--	--	--
	2/3/1995	--	--	--	--	--	--	--
	2/22/1995	--	--	--	--	--	--	--
	3/24/1995	--	--	--	--	--	--	--
	4/27/1995	--	--	--	--	--	--	--
	5/15/1995	--	--	--	--	--	--	--
	6/16/1995	--	--	--	--	--	--	--
	8/25/1995	--	--	--	--	--	--	--
	10/20/1995	--	--	--	--	--	--	--
	4/4/1996	--	--	--	--	--	--	--
	4/16/1996	--	--	--	--	--	--	--
	5/10/1996	--	--	--	--	--	--	--
	5/15/1996	--	--	--	--	--	--	--
	5/17/1996	--	--	1,230	6.86	6.6	2.19	13.1

**GROUND WATER ANALYTICAL DATA, TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, DIESEL, AND MOTOR OIL,
BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES**

Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Sample Date	NWTPH-Gx [1] µg/L	NWTPH-Dx Diesel Range (C12-C24) [2] µg/L	NWTPH-Dx Heavy Oil Range (C24-C40) [2] µg/L	Benzene [3] µg/L	Toluene [3] µg/L	Ethyl Benzene [3] µg/L	Total Xylenes [3] µg/L
Cleanup Level [4]		800/1,000*	500	500	5	1000	700	1000
B-6 (cont.)	5/22/1996	--	--	--	--	--	--	--
	6/5/1996	--	--	--	--	--	--	--
	6/24/1996	--	--	--	--	--	--	--
	7/15/1996	--	--	--	--	--	--	--
	8/23/1996	--	--	--	--	--	--	--
	9/18/1996	--	--	--	--	--	--	--
	1/3/1997	--	--	--	--	--	--	--
	3/12/1997	--	--	--	--	--	--	--
	4/2/1997	--	--	--	--	--	--	--
	5/1/1997	--	--	--	--	--	--	--
	8/19/1997	--	--	--	--	--	--	--
	9/17/1997	194,000	102,000	61,700	2,850	7,070	1,270	7,860
	4/29/1998	160,000	51,000	6,900	7,500	16,000	2,600	18,000
	7/29/1999	97,000	23,000	<10,000	8,300	13,000	2,200	13,000
	5/24/2001	69,000	44,000	25,000	6,900	4,300	980	7,200
	6/5/2002	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	5/29/2003	35,000	7,700	4,500J	4,600	4,000	450	4,800
	6/15/2004	48,000	210,000	100,000	5,900	8,500	760	6,400
	6/22/2005	22,000	100,000	45,000	3,800	3,600	200	2,200
	6/6/2006	33,500	5,420	528	2,540	4,560	664	4,590
	10/23/2006	37,400	7,050	371J	2,660	5,280	566	4,650
D-1	1/27/1993	--	--	--	--	--	--	--
	3/12/1993	--	--	--	--	--	--	--
	4/14/1993	190	--	--	200	0.62	13	1.2
	12/15/1993	83	--	--	7.1	<0.50	<0.50	1.3
	11/4/1994	52	--	--	2	<0.50	<0.50	<1.0
	2/22/1995	--	--	--	--	--	--	--
	6/16/1995	--	--	--	--	--	--	--
	10/20/1995	--	--	--	--	--	--	--
	4/4/1996	--	--	--	--	--	--	--
	4/16/1996	--	--	--	--	--	--	--
	5/1/1997	--	--	--	--	--	--	--
	ABANDONED							
D-2	11/4/1994	<50	--	--	3.0	<0.50	<0.50	<1.0
	ABANDONED							
D-4	1/27/1993	--	--	--	--	--	--	--
	12/15/1993	--	--	--	--	--	--	--
	11/4/1994	450	--	--	<0.50	2.1	0.78	4.7
	2/22/1995	--	--	--	--	--	--	--
	6/16/1995	--	--	--	--	--	--	--

**GROUND WATER ANALYTICAL DATA, TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, DIESEL, AND MOTOR OIL,
BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES**

Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Sample Date	NWTPH-Gx [1] µg/L	NWTPH-Dx Diesel Range (C12-C24) [2] µg/L	NWTPH-Dx Heavy Oil Range (C24-C40) [2] µg/L	Benzene [3] µg/L	Toluene [3] µg/L	Ethyl Benzene [3] µg/L	Total Xylenes [3] µg/L
Cleanup Level [4]		800/1,000*	500	500	5	1000	700	1000
D-4 (cont.)	10/20/1995	--	--	--	--	--	--	--
	4/4/1996	--	--	--	--	--	--	--
	4/16/1996	--	--	--	--	--	--	--
	4/30/1998	--	--	--	--	--	--	--
	6/5/2002	--	--	--	--	--	--	--
	5/27/2003	--	--	--	--	--	--	--
	6/15/2004	--	--	--	--	--	--	--
	6/21/2005	Insufficient groundwater to sample		--	--	--	--	--
	6/7/2006	101	2,760	2,840	<0.290	<0.280	<0.340	<0.820
D-5	10/23/2006	--	--	--	--	--	--	--
	1/27/1993	--	--	--	--	--	--	--
	4/14/1993	--	--	--	--	--	--	--
	12/15/1993	260	--	--	14	<0.50	1.7	2.1
	11/4/1994	170	--	--	15	3	<0.50	4
	2/22/1995	--	--	--	--	--	--	--
	6/16/1995	--	--	--	--	--	--	--
	10/20/1995	--	--	--	--	--	--	--
	4/4/1996	--	--	--	--	--	--	--
	4/16/1996	--	--	--	--	--	--	--
	5/1/1997	--	--	--	--	--	--	--
	4/30/1998	--	--	--	--	--	--	--
	5/27/2003	--	--	--	--	--	--	--
	6/15/2004	--	--	--	--	--	--	--
	6/21/2005	--	--	--	--	--	--	--
	6/6/2006	--	--	--	--	--	--	--
	10/23/2006	--	--	--	--	--	--	--
D-6	1/27/1993	--	--	--	--	--	--	--
	3/12/1993	--	--	--	--	--	--	--
	4/14/1993	--	--	--	--	--	--	--
	6/30/1993	--	--	--	--	--	--	--
	12/15/1993	--	--	--	--	--	--	--
	2/8/1994	--	--	--	--	--	--	--
	7/8/1994	--	--	--	--	--	--	--
	8/12/1994	--	--	--	--	--	--	--
	9/21/1994	--	--	--	--	--	--	--
	11/4/1994	--	--	--	--	--	--	--
	12/23/1994	--	--	--	--	--	--	--
	2/3/1995	--	--	--	--	--	--	--
	2/22/1995	--	--	--	--	--	--	--
	3/24/1995	--	--	--	--	--	--	--

TABLE 2

**GROUND WATER ANALYTICAL DATA, TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, DIESEL, AND MOTOR OIL,
BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES**

Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Sample Date	NWTPH-Gx [1] µg/L	NWTPH-Dx Diesel Range (C12-C24) [2] µg/L	NWTPH-Dx Heavy Oil Range (C24-C40) [2] µg/L	Benzene [3] µg/L	Toluene [3] µg/L	Ethyl Benzene [3] µg/L	Total Xylenes [3] µg/L
Cleanup Level [4]		800/1,000*	500	500	5	1000	700	1000
D-6 (cont.)	4/27/1995	--	--	--	--	--	--	--
	5/15/1995	--	--	--	--	--	--	--
	6/16/1995	--	--	--	--	--	--	--
	8/25/1995	--	--	--	--	--	--	--
	10/20/1995	--	--	--	--	--	--	--
	4/4/1996	--	--	--	--	--	--	--
	4/16/1996	--	--	--	--	--	--	--
	5/10/1996	--	--	--	--	--	--	--
	5/15/1996	--	--	--	--	--	--	--
	5/22/1996	--	--	--	--	--	--	--
	6/5/1996	--	--	--	--	--	--	--
	6/24/1996	--	--	--	--	--	--	--
	7/15/1996	--	--	--	--	--	--	--
	8/23/1996	--	--	--	--	--	--	--
	9/18/1996	--	--	--	--	--	--	--
	1/3/1997	--	--	--	--	--	--	--
	3/12/1997	--	--	--	--	--	--	--
	4/2/1997	--	--	--	--	--	--	--
	5/1/1997	--	--	--	--	--	--	--
	8/19/1997	--	--	--	--	--	--	--
	9/17/1997	--	--	--	--	--	--	--
	4/30/1998	<50	14,000	86,000	11	2	0.2	1.4
	5/23/2000	59J	<2,000	<5,000	200	5.6	1.0J	3.6
	5/23/2001	10J	1,400	3,800	200	9.1	4.2	5.2
	6/5/2002	87J	900	2,600	120	9.6	2.3	5.8
	5/27/2003	<48	7,600J	37,000	7.2	1.1	0.3J	0.9J
	6/15/2004	59J	1,300J	5,800	78.0	4.3	1.7	3.6
	6/22/2005	160J	3,700	4,000J	130	14.0	2.5	8.4
	6/7/2006	342	1,580	1,050	22.2	0.960J	0.580J	<0.820
	10/23/2006	445	1,490	4,160	111	19.0	4.97	22.7
D-7	1/27/1993	--	--	--	--	--	--	--
	3/12/1993	--	--	--	--	--	--	--
	4/14/1993	77	--	--	1,300	21	420	2,200
	12/15/1993	--	--	--	--	--	--	--
	7/8/1994	--	--	--	--	--	--	--
	8/12/1994	--	--	--	--	--	--	--
	9/21/1994	--	--	--	--	--	--	--
	11/4/1994	210	--	--	88	2.1	4.7	13
	12/23/1994	--	--	--	--	--	--	--
	2/3/1995	--	--	--	--	--	--	--

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2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Sample Date	NWTPH-Gx [1] µg/L	NWTPH-Dx Diesel Range (C12-C24) [2] µg/L	NWTPH-Dx Heavy Oil Range (C24-C40) [2] µg/L	Benzene [3] µg/L	Toluene [3] µg/L	Ethyl Benzene [3] µg/L	Total Xylenes [3] µg/L
Cleanup Level [4]		800/1,000*	500	500	5	1000	700	1000
D-7 (cont.)	2/22/1995	--	--	--	--	--	--	--
	3/24/1995	--	--	--	--	--	--	--
	4/27/1995	--	--	--	--	--	--	--
	5/15/1995	--	--	--	--	--	--	--
	6/16/1995	--	--	--	--	--	--	--
	8/25/1995	--	--	--	--	--	--	--
	10/20/1995	--	--	--	--	--	--	--
	3/24/1996	--	--	--	--	--	--	--
	4/4/1996	--	--	--	--	--	--	--
	4/16/1996	--	--	--	--	--	--	--
	4/2/1997	--	--	--	--	--	--	--
	5/1/1997	--	--	--	--	--	--	--
	9/17/1997	453	7,990	22,400	150	13.5	7.04	35.5
	4/30/1998	170	3,300	6,200	63	5.0	0.9	7
	5/23/2000	120J	4600J	19,000	480	7.2	1.6	13
	5/23/2001	130J	4100J	17,000	410	8.7	1.6	18
	6/4/2002	70J	9,300	31,000	180	6.7	0.72J	8.1
	5/27/2003	<48	15,000	62,000	55	0.7J	0.4J	2.0J
	6/15/2004	88J	15,000	51,000	190	18.0	0.5J	3.8
	6/22/2005	140J	11,000	36,000	83	5.7	0.9J	9.0
	6/7/2006	281	3,760	9,490	70.4	2.94	<0.340	<0.820
	10/24/2006	56.2Ju	913J	37,200	6.98	0.630J	<0.230	<0.440
HA-1	1/27/1993	--	--	--	--	--	--	--
	3/12/1993	--	--	--	--	--	--	--
	4/14/1993	80	--	--	<0.50	<0.50	<0.50	<1.0
	12/15/1993	<50	--	--	<0.50	<0.50	<0.50	<1.0
	11/4/1994	<50	--	--	<0.50	1.3	0.61	2.2
	2/22/1995	--	--	--	--	--	--	--
	6/16/1995	--	--	--	--	--	--	--
	10/20/1995	--	--	--	--	--	--	--
	4/4/1996	--	--	--	--	--	--	--
	4/16/1996	--	--	--	--	--	--	--
	5/1/1997	--	--	--	--	--	--	--
	9/17/1997	<50	<250	<500	<0.50	<0.50	<0.50	<1.0
	4/29/1998	<50	110	540	<0.20	0.4	<0.20	1.2
	7/28/1999	--	--	--	--	--	--	--
	5/24/2000	100J	320	370J	0.29J	<0.20	0.71J	2.4J
	5/23/2001	<48	<80	<200	<0.2	<0.2	<0.2	<0.60
	6/4/2002	<48	<77	<97	<0.20	0.35J	<0.20	<0.60
	5/28/2003	<48	<75	<94	<0.2	<0.2	0.3J	<0.6

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Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Sample Date	NWTPH-Gx [1] µg/L	NWTPH-Dx Diesel Range (C12-C24) [2] µg/L	NWTPH-Dx Heavy Oil Range (C24-C40) [2] µg/L	Benzene [3] µg/L	Toluene [3] µg/L	Ethyl Benzene [3] µg/L	Total Xylenes [3] µg/L
Cleanup Level [4]		800/1,000*	500	500	5	1000	700	1000
HA-1 (cont.)	6/15/2004	<48	<80	<100	<0.2	<0.2	<0.2	<0.6
	6/22/2005	<48	<77	<97	<0.2	<0.2	<0.2	<0.6
	6/7/2006	<40	<35.8	92.7J	<0.290	<0.280	<0.340	<0.820
	6/7/2006 (Dup)	<40	<36.2	125	<0.290	<0.280	<0.340	<0.820
	10/24/2006	10.9Ju	877	1,090	<0.310	<0.220	<0.230	<0.440
HA-2	1/27/1993	--	--	--	--	--	--	--
	3/12/1993	--	--	--	--	--	--	--
	4/14/1993	160,000	--	--	7,900	30,000	2,900	17,000
	12/15/1993	90,000	--	--	1,200	860	3,000	15,000
	11/4/1994	1,800,000	--	--	1,700	13,000	8,900	57,000
	2/22/1995	--	--	--	--	--	--	--
	6/16/1995	--	--	--	--	--	--	--
	10/20/1995	--	--	--	--	--	--	--
	4/4/1996	--	--	--	--	--	--	--
	4/16/1996	--	--	--	--	--	--	--
	4/2/1997	--	--	--	--	--	--	--
	5/1/1997	--	--	--	--	--	--	--
	9/18/1997	16,500	13,500	<500	1,820	648	204	1,590
	4/30/1998	65,000	12,000	3,000	9,400	11,000	1,100	7,900
	7/30/1999	67,000	76,000	<10,000	10,000	8,700	1,200	10,000
	5/23/2000	69,000	71,000	<25,000	12,000	7,300	1,700	11,000
	5/23/2001	36,000	28,000	<4,000	8,100	2,100	910	5,200
	6/4/2002	81,000	68,000	<9,800	12,000	12,000	1,700	14,000
	5/27/2003	99,000	33,000	3,000J	9,200	5,800	1,800	14,000
	6/16/2004	31,000	--	--	5,800	980	690	4,500
	6/21/2005	35,000	290,000	<20,000	4,700	2,700	440	4,000
	6/6/2006	60,200	9,720	313Ju	7,710	5,560	874	10,200
	10/24/2006	31,700	--	--	4,890	1,480	794	5,610
HA-3	1/27/1993	--	--	--	--	--	--	--
	3/12/1993	--	--	--	--	--	--	--
	4/14/1993	770	--	--	73	12	6.2	37
	12/15/1993	140	--	--	19	0.58	1.5	3.8
	11/4/1994	380	--	--	26	6.0	2.0	8.7
	2/22/1995	--	--	--	--	--	--	--
	6/16/1995	--	--	--	--	--	--	--
	10/20/1995	--	--	--	--	--	--	--
	4/4/1996	--	--	--	--	--	--	--
	4/16/1996	--	--	--	--	--	--	--
	4/2/1997	--	--	--	--	--	--	--
	5/1/1997	--	--	--	--	--	--	--

TABLE 2

**GROUND WATER ANALYTICAL DATA, TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, DIESEL, AND MOTOR OIL,
BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES**

Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Sample Date	NWTPH-Gx [1] µg/L	NWTPH-Dx Diesel Range (C12-C24) [2] µg/L	NWTPH-Dx Heavy Oil Range (C24-C40) [2] µg/L	Benzene [3] µg/L	Toluene [3] µg/L	Ethyl Benzene [3] µg/L	Total Xylenes [3] µg/L
Cleanup Level [4]		800/1,000*	500	500	5	1000	700	1000
HA-3 (cont.)	9/18/1997	<50	2,350	1,280	<0.50	<0.50	<0.50	<1.0
	4/30/1998	310	1,200	1,400	84	9.0	2.0	7.0
	5/23/2000	480	590	1,100	87	8.1	2.2	7.4
	5/23/2001	330	--	--	37	0.63J	0.42J	3.5
	6/4/2002	480	5,900	710J	120	16.0	4.2	23.0
	5/27/2003	<24	--	--	230	4.6J	3.8J	8.9J
	DRY	--	--	--	--	--	--	--
	6/22/2005	63J	--	--	140	0.7J	1.4	3.9
	6/7/2006	531	755	470	80.8	6.59	0.620J	0.880J
	10/23/2006	--	--	--	--	--	--	--
HA-4	1/27/1993	--	--	--	--	--	--	--
	3/12/1993	--	--	--	--	--	--	--
	4/14/1993	230	--	--	<0.50	1.7	4.5	12
	12/15/1993	<50	--	--	<0.50	<0.50	<0.50	<1.0
	11/4/1994	<50	--	--	<0.50	<0.50	<0.50	<1.0
	2/22/1995	--	--	--	--	--	--	--
	6/16/1995	--	--	--	--	--	--	--
	10/20/1995	--	--	--	--	--	--	--
	4/4/1996	--	--	--	--	--	--	--
	4/16/1996	--	--	--	--	--	--	--
	4/2/1997	--	--	--	--	--	--	--
	5/1/1997	--	--	--	--	--	--	--
	9/18/1997	3,980	610	797	193	280	68.6	503
	4/30/1998	<250	530	1,600	<1.0	<1.0	<1.0	<3.0
	5/23/2000	<48	420J	1,500	<0.2	<0.2	<0.2	<0.6
	5/23/2001	<48	550	1,900	<0.2	7.60	<0.2	<0.6
	6/4/2002	<48	230J	270J	0.22J	0.33J	<0.2	1.1J
	5/27/2003	<48	410	720	<0.2	2.3	<0.2	<0.6
	6/16/2004	70J	470	590J	<0.2	4.7	<0.2	<0.6
	6/22/2005	<48	560	1,000	<0.2	0.6J	<0.2	1.0J
	6/6/2006	--	--	--	--	--	--	--
	10/24/2006	275	325	672	60.6	21.0	2.92	19.2
HA-5	1/27/1993	--	--	--	--	--	--	--
	3/12/1993	--	--	--	--	--	--	--
	4/14/1993	3,500	--	--	22	2.2	84	210
	12/15/1993	710	--	--	17	18	1.2	38
	11/4/1994	250	--	--	14	1.5	1.6	2.9
	2/22/1995	--	--	--	--	--	--	--
	6/16/1995	--	--	--	--	--	--	--
	10/20/1995	--	--	--	--	--	--	--

**GROUND WATER ANALYTICAL DATA, TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, DIESEL, AND MOTOR OIL,
BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES**

Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Sample Date	NWTPH-Gx [1] µg/L	NWTPH-Dx Diesel Range (C12-C24) [2] µg/L	NWTPH-Dx Heavy Oil Range (C24-C40) [2] µg/L	Benzene [3] µg/L	Toluene [3] µg/L	Ethyl Benzene [3] µg/L	Total Xylenes [3] µg/L
Cleanup Level [4]		800/1,000*	500	500	5	1000	700	1000
HA-5 (cont.)	4/4/1996	--	--	--	--	--	--	--
	4/16/1996	--	--	--	--	--	--	--
	5/1/1997	--	--	--	--	--	--	--
	9/18/1997	349	1,790	969	18.50	2.45	1.89	6.8
	5/1/1998	950	640	840	15	3	7	5
	7/29/1999	480	240J	<200	17	3	0.4J	9
	5/23/2000	410	380	630	9.1	2.6	2	5.5
	5/22/2001	480	290	<200	2.5	1.7	0.23J	3.0
	6/5/2002	880	260	110J	30.0	5.3	140	16.0
	5/28/2003	21,000	310	150J	2,700	5,200	350	1,700
	6/16/2004	570	1,400J	<1,000	3.0	1.2	3.1	25
	6/20/2005	86J	790	<94	2.7	<0.2	<0.2	0.7J
	6/7/2006	173	205	171	0.570J	<0.280	<0.340	<0.820
	10/24/2006	303	178	<35.8	22.7	3.42	1.72	2.92J
HA-6	1/27/1993	--	--	--	--	--	--	--
	3/12/1993	--	--	--	--	--	--	--
	4/14/1993	63,000	--	--	1,400	9,300	1,200	10,000
	12/15/1993	59,000	--	--	1,400	1,400	7,400	10,000
	11/4/1994	53,000	--	--	960	2,700	790	9,500
	2/22/1995	--	--	--	--	--	--	--
	5/15/1995	--	--	--	--	--	--	--
	6/16/1995	--	--	--	--	--	--	--
	10/20/1995	--	--	--	--	--	--	--
	4/4/1996	--	--	--	--	--	--	--
	4/16/1996	--	--	--	--	--	--	--
	5/10/1996	--	--	--	--	--	--	--
	5/15/1996	--	--	--	--	--	--	--
	5/22/1996	--	--	--	--	--	--	--
	6/5/1996	--	--	--	--	--	--	--
	6/24/1996	--	--	--	--	--	--	--
	7/15/1996	--	--	--	--	--	--	--
	8/23/1996	--	--	--	--	--	--	--
	9/18/1996	--	--	--	--	--	--	--
	1/3/1997	--	--	--	--	--	--	--
	3/12/1997	--	--	--	--	--	--	--
	4/2/1997	--	--	--	--	--	--	--
	5/1/1997	--	--	--	--	--	--	--
	8/19/1997	--	--	--	--	--	--	--
	8/26/1997	--	--	--	--	--	--	--
	9/17/1997	43,100	25,100	<500	934	973	922	7,670

TABLE 2

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BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES**

Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Sample Date	NWTPH-Gx [1] µg/L	NWTPH-Dx Diesel Range (C12-C24) [2] µg/L	NWTPH-Dx Heavy Oil Range (C24-C40) [2] µg/L	Benzene [3] µg/L	Toluene [3] µg/L	Ethyl Benzene [3] µg/L	Total Xylenes [3] µg/L
Cleanup Level [4]		800/1,000*	500	500	5	1000	700	1000
HA-6 (cont.)	5/1/1998	43,000	24,000	<5,000	1,100	1,200	1,300	8,700
	7/30/1999	47,000	16,000	<2,000	950	360	1,500	8,300
	5/22/2000	37,000	10,000	<4,000	870	430	1,500	6,800
	5/22/2001	38,000	14,000	<2,000	820	370	1,600	8,000
	6/5/2002	36,000	5,800	990J	650	210	1,700	7,100
	5/28/2003	32,000	4,100	5,400J	590	210	1,200	5,900
	6/16/2004	52,000	41,000	<2,500	590	330	1,300	8,500
	6/20/2005	18,000	11,000	<960	330	150	690	2,800
	6/7/2006	18,600	3700j	106J	345	189	1,040	2,900
	10/24/2006	19,000	2670j	<71.4uj	422	172	948	2,570
HA-7	1/27/1993	--	--	--	--	--	--	--
	3/12/1993	--	--	--	--	--	--	--
	4/14/1993	--	--	--	--	--	--	--
	6/30/1993	--	--	--	--	--	--	--
	12/15/99	--	--	--	--	--	--	--
	2/8/1994	--	--	--	--	--	--	--
	8/12/1994	--	--	--	--	--	--	--
	9/21/1994	--	--	--	--	--	--	--
	11/4/1994	--	--	--	--	--	--	--
	12/23/1994	--	--	--	--	--	--	--
	2/3/1995	--	--	--	--	--	--	--
	2/22/1995	--	--	--	--	--	--	--
	3/24/1995	--	--	--	--	--	--	--
	4/27/1995	--	--	--	--	--	--	--
	5/15/1995	--	--	--	--	--	--	--
	6/16/1995	--	--	--	--	--	--	--
	8/25/1995	--	--	--	--	--	--	--
	10/20/1995	--	--	--	--	--	--	--
	4/4/1996	--	--	--	--	--	--	--
	4/16/1996	--	--	--	--	--	--	--
	5/10/1996	--	--	--	--	--	--	--
	5/15/1996	--	--	--	--	--	--	--
	5/22/1996	--	--	--	--	--	--	--
	6/5/1996	--	--	--	--	--	--	--
	6/24/1996	--	--	--	--	--	--	--
	7/15/1996	--	--	--	--	--	--	--
	8/23/1996	--	--	--	--	--	--	--
	9/18/1996	--	--	--	--	--	--	--
	1/3/1997	--	--	--	--	--	--	--
	3/12/1997	--	--	--	--	--	--	--

TABLE 2

**GROUND WATER ANALYTICAL DATA, TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, DIESEL, AND MOTOR OIL,
BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES**

Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Sample Date	NWTPH-Gx [1] µg/L	NWTPH-Dx Diesel Range (C12-C24) [2] µg/L	NWTPH-Dx Heavy Oil Range (C24-C40) [2] µg/L	Benzene [3] µg/L	Toluene [3] µg/L	Ethyl Benzene [3] µg/L	Total Xylenes [3] µg/L
Cleanup Level [4]		800/1,000*	500	500	5	1000	700	1000
HA-7 (cont.)	4/2/1997	--	--	--	--	--	--	--
	5/1/1997	--	--	--	--	--	--	--
	7/8/1997	--	--	--	--	--	--	--
	8/19/1997	--	--	--	--	--	--	--
	8/26/1997	--	--	--	--	--	--	--
	9/18/1997	--	--	--	--	--	--	--
	4/30/1998	--	--	--	--	--	--	--
	7/29/1999	17,000	16,000	<10,000	1,200	69	890	1,200
	5/22/2000	7,000	9,200	<4,000	460	31	510	580
	5/22/2001	4,700	7,100	<2,000	290	25	350	470
	6/5/2002	8,800	4,100	<470	1,500	73	760	1,000
	5/28/2003	11,000	9,000	<960	1,000	100	920	1,300
	6/15/2004	8,500	3,400	<490	730	48	600	1,200
	6/20/2005	740	1,500	<200	170	5	84	18
	6/7/2006	<40	14,700	1,610	0.480j	<0.280	<0.340	<0.820
	10/24/2006	537	1040j	408j	46.9	4.32	7.86	23.5
HA-8	1/27/1993	--	--	--	--	--	--	--
	3/12/1993	--	--	--	--	--	--	--
	4/14/1993	8,100	--	--	140	150	200	1,100
	12/15/1993	3,200	--	--	100	68	11	390
	11/4/1994	610	--	--	25	2.9	15	54
	2/22/1995	--	--	--	--	--	--	--
	6/16/1995	--	--	--	--	--	--	--
	10/20/1995	--	--	--	--	--	--	--
	4/4/1996	--	--	--	--	--	--	--
	4/16/1996	--	--	--	--	--	--	--
	5/1/1997	--	--	--	--	--	--	--
	8/26/1997	--	--	--	--	--	--	--
	9/18/1997	2,840	6,760	2,360	29.2	11.9	19.8	239
	5/1/1998	4,300	14,000	19,000	110	130	190	600
	7/29/1999	6,000	2,200	<200	37	30	140	1,000
	5/22/2000	1,100	810	700	13	9.7	28	170
	5/22/2001	650	800	350j	15	3.8	26	95
	6/5/2002	1,200	3,000	1,100	6.8	4.4	31	160
	5/28/2003	67,000	1,800	530	11,000	16,000	1,100	5,400
	6/15/2004	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/20/2005	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/6/2006	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	10/23/2006	LPH	LPH	LPH	LPH	LPH	LPH	LPH

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BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES**

Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Sample Date	NWTPH-Gx [1] µg/L	NWTPH-Dx Diesel Range (C12-C24) [2] µg/L	NWTPH-Dx Heavy Oil Range (C24-C40) [2] µg/L	Benzene [3] µg/L	Toluene [3] µg/L	Ethyl Benzene [3] µg/L	Total Xylenes [3] µg/L
Cleanup Level [4]		800/1,000*	500	500	5	1000	700	1000
HA-9	1/27/1993	--	--	--	--	--	--	--
	3/12/1993	--	--	--	--	--	--	--
	4/14/1993	74,000	--	--	1,700	2,000	2,100	14,000
	12/15/1993	50,000	--	--	990	1,300	130	9,300
	11/4/1994	55,000	--	--	570	91	1,200	8,200
	2/22/1995	--	--	--	--	--	--	--
	6/16/1995	--	--	--	--	--	--	--
	10/20/1995	--	--	--	--	--	--	--
	4/4/1996	--	--	--	--	--	--	--
	4/16/1996	--	--	--	--	--	--	--
	4/2/1997	--	--	--	--	--	--	--
	5/1/1997	--	--	--	--	--	--	--
	9/18/1997	21,800	6,100	<1,000	142	22.8	372	2,460
	4/29/1998	32,000	44,000	<25,000	410	60	1,200	4,500
	7/28/1999	--	--	--	--	--	--	--
	5/24/2000	7,400	12,000	3,400	310	21	320	380
	5/23/2001	3,400	15,000	<2,000	290	15	290	490
	6/4/2002	12,000	5,300	1,000J	530	13	810	910
	5/28/2003	9,500	3,800	<1,100	310	6.3	610	190
	6/17/2004	4,300	--	--	250	2.1	280	6.8
HA-10	6/20/2005	4,800	15,000	1,800J	220	2.4	260	5.8
	6/6/2006	3750j	3,220	337u	177	3.58	435	420
	10/24/2006	7,050	3,080	248	248	2.58	580	8.43
	1/27/1993	--	--	--	--	--	--	--
	3/12/1993	--	--	--	--	--	--	--
	4/14/1993	77,000	--	--	540	4,600	1,800	12,000
	12/15/1993	24,000	--	--	430	410	1,400	3,800
	11/4/1994	--	--	--	--	--	--	--
	2/22/1995	--	--	--	--	--	--	--
	6/16/1995	--	--	--	--	--	--	--
	10/20/1995	--	--	--	--	--	--	--
	4/4/1996	--	--	--	--	--	--	--
	4/16/1996	--	--	--	--	--	--	--
	7/15/1996	--	--	--	--	--	--	--
	4/2/1997	--	--	--	--	--	--	--
	5/1/1997	--	--	--	--	--	--	--
	5/23/2001	Well not sampled, bailer obstructed from reaching well bottom						
	6/6/2002	8,900	--	--	44	66	530	1,600
	5/27/2003	Well not sampled, bailer obstructed from reaching well bottom						
	6/17/2004	Well not sampled, bailer obstructed from reaching well bottom						

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2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Sample Date	NWTPH-Gx [1] µg/L	NWTPH-Dx Diesel Range (C12-C24) [2] µg/L	NWTPH-Dx Heavy Oil Range (C24-C40) [2] µg/L	Benzene [3] µg/L	Toluene [3] µg/L	Ethyl Benzene [3] µg/L	Total Xylenes [3] µg/L
Cleanup Level [4]		800/1,000*	500	500	5	1000	700	1000
HA-10 (cont.)	6/21/2005	3,500	--	--	23	7	170	320
	6/6/2006	852	999	97.5	52.6	5.50J	63.7	19.1J
	10/24/2006	2,280	--	--	36.2	<0.220	47.4	99.4
HA-11	1/27/1993	--	--	--	--	--	--	--
	3/12/1993	--	--	--	--	--	--	--
	4/14/1993	29,000	--	--	910	42	820	3,700
	12/15/1993	5,300	--	--	360	160	98	780
	11/4/1994	13,000	--	--	610	190	300	1,900
	2/22/1995	--	--	--	--	--	--	--
	6/16/1995	--	--	--	--	--	--	--
	10/20/1995	--	--	--	--	--	--	--
	4/4/1996	--	--	--	--	--	--	--
	4/16/1996	--	--	--	--	--	--	--
	4/2/1997	--	--	--	--	--	--	--
	5/1/1997	--	--	--	--	--	--	--
	4/29/1998	4,600	4,200	1,800	230	28	100	520
	7/28/1999	--	--	--	--	--	--	--
	5/24/2000	13,000	3,300	1,400	710	200	450	2,300
	5/23/2001	6,100	--	--	570	83	280	910
	6/4/2002	3,000	--	--	660	18	100	450
	5/27/2003	16,000	--	--	1,400	74	560	2,300
	DRY	--	--	--	--	--	--	--
	6/21/2005	4,100	--	--	500	6.6	150	460
	6/7/2006	8,760	3320j	147J	662	17.0	443	1420
	10/24/2006	7,410	3,560	1,370	1510	12.2	385	710
HA-12	1/27/1993	--	--	--	--	--	--	--
	3/12/1993	--	--	--	--	--	--	--
	4/14/1993	<50	--	--	1.3	<0.50	<0.50	<1.0
	12/15/1993	700	--	--	6.0	5.7	16	170
	11/4/1994	300	--	--	2.2	1.6	1.8	9.7
	2/22/1995	--	--	--	--	--	--	--
	6/16/1995	--	--	--	--	--	--	--
	10/20/1995	--	--	--	--	--	--	--
	4/4/1996	--	--	--	--	--	--	--
	4/16/1996	--	--	--	--	--	--	--
	5/1/1997	--	--	--	--	--	--	--
	8/26/1997	--	--	--	--	--	--	--
	9/18/1997	139	6,350	<500	1.05	<0.50	<0.50	1.9
	5/1/1998	<50	<80	780	0.3	0.5	0.3	1.5
	7/29/1999	<48	180J	200	3	0.8J	<0.2	1.3J

TABLE 2

**GROUND WATER ANALYTICAL DATA, TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, DIESEL, AND MOTOR OIL,
BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES**

Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Sample Date	NWTPH-Gx [1] µg/L	NWTPH-Dx Diesel Range (C12-C24) [2] µg/L	NWTPH-Dx Heavy Oil Range (C24-C40) [2] µg/L	Benzene [3] µg/L	Toluene [3] µg/L	Ethyl Benzene [3] µg/L	Total Xylenes [3] µg/L
Cleanup Level [4]		800/1,000*	500	500	5	1000	700	1000
HA-12 (cont.)	5/22/2000	<48	250	520	1.2	0.24J	<0.2	<0.6
	5/22/2001	<48	410	<200	3.7	0.24J	<0.2	<0.6
	6/5/2002	<48	130J	<95	0.31J	<0.2	<0.2	<0.6
	5/28/2003	<48	280	610	0.4J	<0.2	<0.2	<0.6
	6/16/2004	<48	490	250J	4.5	0.3J	<0.2	0.8J
	6/21/2005	<48	180J	<100	0.3J	<0.2	0.5J	<0.6
	6/7/2006	<40	165	70.1J	<0.290	<0.280	<0.340	<0.820
	10/24/2006	58.2Ju	103	564	4.85	1.60	0.860J	0.870J
HA-13	1/27/1993	--	--	--	--	--	--	--
	3/12/1993	--	--	--	--	--	--	--
	4/14/1993	<50	--	--	<0.50	<0.50	<0.50	<1.0
	12/15/1993	<50	--	--	<0.50	<0.50	<0.50	<1.0
	11/4/1994	<50	--	--	<0.50	1.4	<0.50	3.0
	2/22/1995	--	--	--	--	--	--	--
	6/16/1995	--	--	--	--	--	--	--
	10/20/1995	--	--	--	--	--	--	--
	4/4/1996	--	--	--	--	--	--	--
	4/16/1996	--	--	--	--	--	--	--
	5/1/1997	--	--	--	--	--	--	--
	9/18/1997	59	310	<500	<0.50	<0.50	<0.50	<1.0
	4/30/1998	<250	<250	<500	<1.0	1.00	<1.0	<3.0
	7/28/1999	--	--	--	--	--	--	--
	5/22/2000	<48	130J	450J	<0.2	<0.2	<0.2	<0.6
	5/22/2001	<48	86J	<200	<0.2	<0.2	<0.2	<0.6
	6/4/2002	<48	<84	<110	<0.2	<0.2	<0.2	<0.6
	5/27/2003	7,100	84J	<96	43	290	120	840
	6/16/2004	<48	<77	<96	<0.2	<0.2	<0.2	<0.6
	6/21/2005	<48	230J	<200	<0.2	<0.2	0.5J	0.27J
	6/7/2006	<40	163	329	<0.290	<0.280	<0.340	<0.820
	10/24/2006	100	<37.8	<37.8	7.34	1.83	0.770J	0.750J
HA-14	1/27/1993	--	--	--	--	--	--	--
	3/12/1993	--	--	--	--	--	--	--
	4/14/1993	5,300	--	--	400	22	290	1,000
	12/15/1993	<50	--	--	<0.50	<0.50	<0.50	<1.0
	11/4/1994	180	--	--	5	1.8	3.9	11
	2/22/1995	--	--	--	--	--	--	--
	6/16/1995	--	--	--	--	--	--	--
	10/20/1995	--	--	--	--	--	--	--
	4/4/1996	--	--	--	--	--	--	--
	4/16/1996	--	--	--	--	--	--	--

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BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES**

Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Sample Date	NWTPH-Gx [1] µg/L	NWTPH-Dx Diesel Range (C12-C24) [2] µg/L	NWTPH-Dx Heavy Oil Range (C24-C40) [2] µg/L	Benzene [3] µg/L	Toluene [3] µg/L	Ethyl Benzene [3] µg/L	Total Xylenes [3] µg/L
Cleanup Level [4]		800/1,000*	500	500	5	1000	700	1000
HA-14 (cont.)	5/1/1997	--	--	--	--	--	--	--
	9/18/1997	324	972	752	6.45	1.06	7.98	9.17
	4/30/1998	1,800	460	<500	210	15	190	100
	7/29/1999	4,700	1,100	<200	450	38	710	120
	5/22/2000	3,700	1,100	520J	470	26	760	63
	5/22/2001	890	430	230J	120	5.5	200	10
	6/4/2002	2,200	1,400	1,000	380	16.0	470	32
	5/27/2003	860	300	220J	91	2.7	140	11
	6/16/2004	220J	780	280J	56	2.6	52	5
	6/21/2005	1,200	660	390J	260	5.8	250	18
	6/7/2006	<40	--	--	<0.290	<0.280	0.560J	<0.820
HB-1	10/24/2006	288	--	--	12.3	2.06	9.60	1.42J
	12/7/1993	61	--	--	<0.50	<0.50	0.14	0.12
DISCONTINUED SAMPLING								
HB-2	12/7/1993	68	--	--	0.092	<0.50	0.17	0.13
	DISCONTINUED SAMPLING							
R-1	1/27/1993	--	--	--	--	--	--	--
	3/12/1993	--	--	--	--	--	--	--
	6/30/1993	--	--	--	--	--	--	--
	12/15/1993	--	--	--	--	--	--	--
	2/8/1994	--	--	--	--	--	--	--
	7/8/1994	--	--	--	--	--	--	--
	8/12/1994	--	--	--	--	--	--	--
	9/21/1994	--	--	--	--	--	--	--
	11/4/1994	--	--	--	--	--	--	--
	12/23/1994	--	--	--	--	--	--	--
	2/3/1995	--	--	--	--	--	--	--
	2/22/1995	--	--	--	--	--	--	--
	3/24/1995	--	--	--	--	--	--	--
	4/27/1995	--	--	--	--	--	--	--
	5/15/1995	--	--	--	--	--	--	--
	6/16/1995	--	--	--	--	--	--	--
	8/25/1995	--	--	--	--	--	--	--
	9/26/1995	--	--	--	--	--	--	--
	10/20/1995	--	--	--	--	--	--	--
	4/4/1996	--	--	--	--	--	--	--
	4/16/1996	--	--	--	--	--	--	--
	5/10/1996	--	--	--	--	--	--	--
	5/15/1996	--	--	--	--	--	--	--
	5/22/1996	--	--	--	--	--	--	--

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Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Sample Date	NWTPH-Gx [1] µg/L	NWTPH-Dx Diesel Range (C12-C24) [2] µg/L	NWTPH-Dx Heavy Oil Range (C24-C40) [2] µg/L	Benzene [3] µg/L	Toluene [3] µg/L	Ethyl Benzene [3] µg/L	Total Xylenes [3] µg/L
Cleanup Level [4]		800/1,000*	500	500	5	1000	700	1000
R-1 (cont.)	6/5/1996	--	--	--	--	--	--	--
	6/24/1996	--	--	--	--	--	--	--
	7/15/1996	--	--	--	--	--	--	--
	8/23/1996	--	--	--	--	--	--	--
	9/18/1996	--	--	--	--	--	--	--
	1/3/1997	--	--	--	--	--	--	--
	3/12/1997	--	--	--	--	--	--	--
	4/2/1997	--	--	--	--	--	--	--
	7/8/1997	--	--	--	--	--	--	--
	8/26/1997	--	--	--	--	--	--	--
	9/17/1997	3,360,000	206,000	23,500	7,620	3,460	1,460	9,460
	4/30/1998	--	--	--	--	--	--	--
	5/24/2001	--	--	--	--	--	--	--
	6/5/2002	--	--	--	--	--	--	--
	5/27/2003	--	--	--	--	--	--	--
	6/20/2005	--	--	--	--	--	--	--
	6/6/2006	--	--	--	--	--	--	--
	10/23/2006	--	--	--	--	--	--	--
R-2	1/27/1993	--	--	--	--	--	--	--
	3/12/1993	--	--	--	--	--	--	--
	12/15/1993	--	--	--	--	--	--	--
	11/4/1994	--	--	--	--	--	--	--
	2/22/1995	--	--	--	--	--	--	--
	5/15/1995	--	--	--	--	--	--	--
	6/16/1995	--	--	--	--	--	--	--
	9/26/1995	--	--	--	--	--	--	--
	10/20/1995	--	--	--	--	--	--	--
	4/4/1996	--	--	--	--	--	--	--
	4/16/1996	--	--	--	--	--	--	--
	5/10/1996	--	--	--	--	--	--	--
	5/15/1996	--	--	--	--	--	--	--
	5/22/1996	--	--	--	--	--	--	--
	6/5/1996	--	--	--	--	--	--	--
	6/24/1996	--	--	--	--	--	--	--
	7/15/1996	--	--	--	--	--	--	--
	8/23/1996	--	--	--	--	--	--	--
	9/18/1996	--	--	--	--	--	--	--
	1/3/1997	--	--	--	--	--	--	--
	3/12/1997	--	--	--	--	--	--	--
	4/2/1997	--	--	--	--	--	--	--

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2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Sample Date	NWTPH-Gx [1] µg/L	NWTPH-Dx Diesel Range (C12-C24) [2] µg/L	NWTPH-Dx Heavy Oil Range (C24-C40) [2] µg/L	Benzene [3] µg/L	Toluene [3] µg/L	Ethyl Benzene [3] µg/L	Total Xylenes [3] µg/L
Cleanup Level [4]		800/1,000*	500	500	5	1000	700	1000
R-2 (cont.)	7/8/1997	--	--	--	--	--	--	--
	8/19/1997	--	--	--	--	--	--	--
	9/17/1997	--	--	--	--	--	--	--
	4/30/1998	--	--	--	--	--	--	--
	5/24/2001	--	--	--	--	--	--	--
	6/5/2002	--	--	--	--	--	--	--
	5/27/2003	--	--	--	--	--	--	--
	6/20/2005	--	--	--	--	--	--	--
	6/6/2006	--	--	--	--	--	--	--
W-1	10/23/2006	--	--	--	--	--	--	--
	1/27/1993	--	--	--	--	--	--	--
	3/12/1993	--	--	--	--	--	--	--
	4/14/1993	--	--	--	--	--	--	--
	6/30/1993	--	--	--	--	--	--	--
	12/15/1993	--	--	--	--	--	--	--
	2/8/1994	--	--	--	--	--	--	--
	7/8/1994	--	--	--	--	--	--	--
	8/12/1994	--	--	--	--	--	--	--
	9/21/1994	--	--	--	--	--	--	--
	11/4/1994	--	--	--	--	--	--	--
	12/23/1994	--	--	--	--	--	--	--
	2/3/1995	--	--	--	--	--	--	--
	2/22/1995	--	--	--	--	--	--	--
	3/24/1995	--	--	--	--	--	--	--
	4/27/1995	--	--	--	--	--	--	--
	5/15/1995	--	--	--	--	--	--	--
	6/16/1995	--	--	--	--	--	--	--
	8/25/1995	--	--	--	--	--	--	--
	10/20/1995	--	--	--	--	--	--	--
	4/4/1996	--	--	--	--	--	--	--
	4/16/1996	--	--	--	--	--	--	--
	5/10/1996	--	--	--	--	--	--	--
	5/15/1996	--	--	--	--	--	--	--
	5/22/1996	--	--	--	--	--	--	--
	6/5/1996	--	--	--	--	--	--	--
	6/24/1996	--	--	--	--	--	--	--
	7/15/1996	--	--	--	--	--	--	--
	8/23/1996	--	--	--	--	--	--	--
	9/18/1996	--	--	--	--	--	--	--
	1/3/1997	--	--	--	--	--	--	--

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2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Sample Date	NWTPH-Gx [1] µg/L	NWTPH-Dx Diesel Range (C12-C24) [2] µg/L	NWTPH-Dx Heavy Oil Range (C24-C40) [2] µg/L	Benzene [3] µg/L	Toluene [3] µg/L	Ethyl Benzene [3] µg/L	Total Xylenes [3] µg/L
Cleanup Level [4]		800/1,000*	500	500	5	1000	700	1000
W-1 (cont.)	3/12/1997	--	--	--	--	--	--	--
	4/2/1997	--	--	--	--	--	--	--
	5/1/1997	--	--	--	--	--	--	--
	8/19/1997	--	--	--	--	--	--	--
	9/17/1997	--	--	--	--	--	--	--
	4/30/1998	--	--	--	--	--	--	--
	7/28/1999	--	--	--	--	--	--	--
	5/23/2000	190,000	160,000	<100,000	34,000	42,000	3,600	23,000
	5/24/2001	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/5/2002	130,000	79,000	<9,400	17,000	27,000	2,700	19,000
	5/29/2003	170,000	79,000	<4,800	20,000	25,000	3,400	23,000
	6/16/2004	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/20/2005	93,000	120,000	<11,000	12,000	13,000	1,600	12,000
	6/7/2006	69,500	7,500	337	8,680	6,260	726	8,240
	10/23/2006	91,700	9,070	<183	14,500	8,400	2,420	20,800
W-2	1/27/1993	--	--	--	--	--	--	--
	3/12/1993	--	--	--	--	--	--	--
	4/14/1993	--	--	--	--	--	--	--
	6/30/1993	--	--	--	--	--	--	--
	12/15/1993	--	--	--	--	--	--	--
	2/8/1994	--	--	--	--	--	--	--
	7/8/1994	--	--	--	--	--	--	--
	8/12/1994	--	--	--	--	--	--	--
	9/21/1994	--	--	--	--	--	--	--
	11/4/1994	--	--	--	--	--	--	--
	12/23/1994	--	--	--	--	--	--	--
	2/3/1995	--	--	--	--	--	--	--
	2/22/1995	--	--	--	--	--	--	--
	3/24/1995	--	--	--	--	--	--	--
	4/27/1995	--	--	--	--	--	--	--
	5/15/1995	--	--	--	--	--	--	--
	6/16/1995	--	--	--	--	--	--	--
	8/25/1995	--	--	--	--	--	--	--
	10/20/1995	--	--	--	--	--	--	--
	4/4/1996	--	--	--	--	--	--	--
	4/16/1996	--	--	--	--	--	--	--
	5/10/1996	--	--	--	--	--	--	--
	5/15/1996	--	--	--	--	--	--	--
	5/22/1996	--	--	--	--	--	--	--
	6/5/1996	--	--	--	--	--	--	--

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Monitoring Well	Sample Date	NWTPH-Gx [1] µg/L	NWTPH-Dx Diesel Range (C12-C24) [2] µg/L	NWTPH-Dx Heavy Oil Range (C24-C40) [2] µg/L	Benzene [3] µg/L	Toluene [3] µg/L	Ethyl Benzene [3] µg/L	Total Xylenes [3] µg/L
Cleanup Level [4]		800/1,000*	500	500	5	1000	700	1000
W-2 (cont.)	6/24/1996	--	--	--	--	--	--	--
	7/15/1996	--	--	--	--	--	--	--
	8/23/1996	--	--	--	--	--	--	--
	9/18/1996	--	--	--	--	--	--	--
	1/3/1997	--	--	--	--	--	--	--
	3/12/1997	--	--	--	--	--	--	--
	4/2/1997	--	--	--	--	--	--	--
	5/1/1997	--	--	--	--	--	--	--
	8/19/1997	--	--	--	--	--	--	--
	9/18/1997	393,000	85,200	19,200	19,400	11,700	3,550	18,000
	4/30/1998	--	--	--	--	--	--	--
	7/29/1999	110,000	36,000	<10,000	12,000	11,000	1,900	13,000
	5/23/2000	85,000	50,000	<20,000	15,000	19,000	1,500	10,000
	5/24/2001	25,000	30,000	13,000	7,600	3,000	420	4,400
	6/5/2002	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	5/28/2003	98,000	28,000	7,800J	16,000	15,000	2,200	12,000
	6/15/2004	85,000	460,000	<50,000	21,000	5,700	2,800	8,700
	6/22/2005	50,000	73,000	<4,000	11,000	2,000	1,800	6,900
	6/6/2006	34,400	5,880	283Ju	6,640	1,660	464	4,760
	10/23/2006	53,000	5,800	<183	12,500	3,470	1,710	8,220
	10/23/2006 (Dup)	60,800	5,890	<183	12,000	2,840	1,650	7,420
W-3	1/27/1993	--	--	--	--	--	--	--
	3/12/1993	--	--	--	--	--	--	--
	4/14/1993	91,000	--	--	2,000	4,800	2,700	15,000
	12/15/1993	45,000	--	--	670	1,300.00	580.00	8,300
	11/4/1994	39,000	--	--	520	190	630	5,100
	2/22/1995	--	--	--	--	--	--	--
	6/16/1995	--	--	--	--	--	--	--
	10/20/1995	--	--	--	--	--	--	--
	4/4/1996	--	--	--	--	--	--	--
	4/16/1996	--	--	--	--	--	--	--
	5/10/1996	--	--	--	--	--	--	--
	5/15/1996	--	--	--	--	--	--	--
	5/22/1996	--	--	--	--	--	--	--
	6/5/1996	--	--	--	--	--	--	--
	6/24/1996	--	--	--	--	--	--	--
	7/15/1996	--	--	--	--	--	--	--
	9/18/1996	--	--	--	--	--	--	--
	1/3/1997	--	--	--	--	--	--	--
	4/2/1997	--	--	--	--	--	--	--

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BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES**

Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Sample Date	NWTPH-Gx [1] µg/L	NWTPH-Dx Diesel Range (C12-C24) [2] µg/L	NWTPH-Dx Heavy Oil Range (C24-C40) [2] µg/L	Benzene [3] µg/L	Toluene [3] µg/L	Ethyl Benzene [3] µg/L	Total Xylenes [3] µg/L
Cleanup Level [4]		800/1,000*	500	500	5	1000	700	1000
W-3 (cont.)	5/1/1997	--	--	--	--	--	--	--
	9/17/1997	105,000	15,000	<500	2,820	8,730	1,570	11,500
	4/29/1998	54,000	18,000	<5,000	920	850	2,000	10,000
	7/30/1999	48,000	48,000	<10,000	2,900	1,900	1,800	6,900
	5/23/2000	34,000	19,000	<10,000	910	180	1,400	4,900
	5/22/2001	19,000	28,000	<10,000	890	36	1,100	2,200
	6/4/2002	17,000	36,000	<4,800	1,900	45	640	2,300
	5/28/2003	16,000	55,000	<4,800	500	32	600	740
	6/16/2004	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/21/2005	9,100	10,000	<980	790	15	470	490
	6/6/2006	13,400	3,090	153u	1,880	25.1	640	821
	10/24/2006	12,200	2,300	<35.2	933	21.3	293	638
	10/24/2006 (Dup)	9,520	2,050	<36.9	877	18.3	301	535
W-4	1/27/1993	--	--	--	--	--	--	--
	3/12/1993	--	--	--	--	--	--	--
	4/14/1993	130,000	--	--	2,600	7,800	2,800	20,000
	12/15/1993	180,000	--	--	3,200	2,700	11,000	18,000
	11/4/1994	--	--	--	--	--	--	--
	2/22/1995	--	--	--	--	--	--	--
	6/16/1995	--	--	--	--	--	--	--
	10/20/1995	--	--	--	--	--	--	--
	4/4/1996	--	--	--	--	--	--	--
	4/16/1996	--	--	--	--	--	--	--
	5/10/1996	--	--	--	--	--	--	--

TABLE 2

**GROUND WATER ANALYTICAL DATA, TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, DIESEL, AND MOTOR OIL,
BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES**

Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Sample Date	NWTPH-Gx [1] µg/L	NWTPH-Dx Diesel Range (C12-C24) [2] µg/L	NWTPH-Dx Heavy Oil Range (C24-C40) [2] µg/L	Benzene [3] µg/L	Toluene [3] µg/L	Ethyl Benzene [3] µg/L	Total Xylenes [3] µg/L
Cleanup Level [4]		800/1,000*	500	500	5	1000	700	1000
W-4 (cont.)	5/15/1996	--	--	--	--	--	--	--
	5/22/1996	--	--	--	--	--	--	--
	6/5/1996	--	--	--	--	--	--	--
	6/24/1996	--	--	--	--	--	--	--
	7/15/1996	--	--	--	--	--	--	--
	1/3/1997	--	--	--	--	--	--	--
	4/2/1997	--	--	--	--	--	--	--
	5/1/1997	--	--	--	--	--	--	--
	9/17/1997	114,000	276,000	<500	1,750	<100	1,480	8,490
	4/29/1998	84,000	250,000	<20,000	2,400	120	1,600	8,000
	7/30/1999	53,000	42,000	<10,000	2,100	100	1,900	6,300
	5/23/2001	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/4/2002	35,000	59,000	6,800J	2,300	32	1,800	3,500
	5/28/2003	32,000	26,000	1,600J	800	22	1,500	1,000
	6/15/2004	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/21/2005	23,000	110,000	<19,000	1,200	11	1,400	200
	6/6/2006	9,180	4,620	411	1,230	18.4	1,010	67.4
	10/24/2006	17,200	5,570	<70.5	1,520	8.34	1,490	18.9

Notes

Data prior to 2006 was collected and reported by Kleinfelder.

Bold data indicates concentrations above MTCA Method A cleanup levels

[1] Northwest Method Total Petroleum Hydrocarbons - Gasoline range

[2] Northwest Method Total Petroleum Hydrocarbons - Diesel and Heavy Oil range

[3] EPA Method 8020 prior to 2006, Method 8260B starting with 2006

[4] MTCA Method A Cleanup Levels

"--" = Not Analyzed

"<" = Concentration less than laboratory detection limit listed

* = Total petroleum hydrocarbons as gasoline cleanup levels for ground water is 800 µg/L if benzene is present, or 1,000 µg/L if benzene is not present

µg/L = micrograms per liter

Dup = duplicate sample

EPA = United States Environmental Protection Agency

LPH = liquid phase hydrocarbons present; not sampled

MTCA = Method Toxics Control Act

Data Qualifiers (analytical laboratory data qualifiers in upper case, data validation qualifiers in lower case)

J or j = Estimated value. The analyte was positively identified, but the associated numerical result is an estimate.

u = Not detected (data validation qualifier only)

uj = Not detected. The associated numerical value is an estimate of the Method Detection Limit (data validation qualifier only).

r = Data rejected. The presence or absence of the analyte cannot be verified (data validation qualifier only).

TABLE 2

**GROUND WATER ANALYTICAL DATA, TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, DIESEL, AND MOTOR OIL,
BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES**

Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Sample Date	NWTPH-Gx [1] µg/L	NWTPH-Dx Diesel Range (C12-C24) [2] µg/L	NWTPH-Dx Heavy Oil Range (C24-C40) [2] µg/L	Benzene [3] µg/L	Toluene [3] µg/L	Ethyl Benzene [3] µg/L	Total Xylenes [3] µg/L
Cleanup Level [4]		800/1,000*	500	500	5	1000	700	1000
W-3 (cont.)	5/1/1997	--	--	--	--	--	--	--
	9/17/1997	105,000	15,000	<500	2,820	8,730	1,570	11,500
	4/29/1998	54,000	18,000	<5,000	920	850	2,000	10,000
	7/30/1999	48,000	48,000	<10,000	2,900	1,900	1,800	6,900
	5/23/2000	34,000	19,000	<10,000	910	180	1,400	4,900
	5/22/2001	19,000	28,000	<10,000	890	36	1,100	2,200
	6/4/2002	17,000	36,000	<4,800	1,900	45	640	2,300
	5/28/2003	16,000	55,000	<4,800	500	32	600	740
	6/16/2004	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/21/2005	9,100	10,000	<980	790	15	470	490
	6/6/2006	13,400	3,090	153u	1,880	25.1	640	821
	10/24/2006	12,200	2,300	<35.2	933	21.3	293	638
	10/24/2006 (Dup)	9,520	2,050	<36.9	877	18.3	301	535
W-4	1/27/1993	--	--	--	--	--	--	--
	3/12/1993	--	--	--	--	--	--	--
	4/14/1993	130,000	--	--	2,600	7,800	2,800	20,000
	12/15/1993	180,000	--	--	3,200	2,700	11,000	18,000
	11/4/1994	--	--	--	--	--	--	--
	2/22/1995	--	--	--	--	--	--	--
	6/16/1995	--	--	--	--	--	--	--
	10/20/1995	--	--	--	--	--	--	--
	4/4/1996	--	--	--	--	--	--	--
	4/16/1996	--	--	--	--	--	--	--
	5/10/1996	--	--	--	--	--	--	--

TABLE 2

**GROUND WATER ANALYTICAL DATA, TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, DIESEL, AND MOTOR OIL,
BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES**

Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Sample Date	NWTPH-Gx [1] µg/L	NWTPH-Dx Diesel Range (C12-C24) [2] µg/L	NWTPH-Dx Heavy Oil Range (C24-C40) [2] µg/L	Benzene [3] µg/L	Toluene [3] µg/L	Ethyl Benzene [3] µg/L	Total Xylenes [3] µg/L
Cleanup Level [4]		800/1,000*	500	500	5	1000	700	1000
W-4 (cont.)	5/15/1996	--	--	--	--	--	--	--
	5/22/1996	--	--	--	--	--	--	--
	6/5/1996	--	--	--	--	--	--	--
	6/24/1996	--	--	--	--	--	--	--
	7/15/1996	--	--	--	--	--	--	--
	1/3/1997	--	--	--	--	--	--	--
	4/2/1997	--	--	--	--	--	--	--
	5/1/1997	--	--	--	--	--	--	--
	9/17/1997	114,000	276,000	<500	1,750	<100	1,480	8,490
	4/29/1998	84,000	250,000	<20,000	2,400	120	1,600	8,000
	7/30/1999	53,000	42,000	<10,000	2,100	100	1,900	6,300
	5/23/2001	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/4/2002	35,000	59,000	6,800J	2,300	32	1,800	3,500
	5/28/2003	32,000	26,000	1,600J	800	22	1,500	1,000
	6/15/2004	LPH	LPH	LPH	LPH	LPH	LPH	LPH
	6/21/2005	23,000	110,000	<19,000	1,200	11	1,400	200
	6/6/2006	9,180	4,620	411	1,230	18.4	1,010	67.4
	10/24/2006	17,200	5,570	<70.5	1,520	8.34	1,490	18.9

Notes

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Bold data indicates concentrations above MTCA Method A cleanup levels

[1] Northwest Method Total Petroleum Hydrocarbons - Gasoline range

[2] Northwest Method Total Petroleum Hydrocarbons - Diesel and Heavy Oil range

[3] EPA Method 8020 prior to 2006, Method 8260B starting with 2006

[4] MTCA Method A Cleanup Levels

"--" = Not Analyzed

"<" = Concentration less than laboratory detection limit listed

* = Total petroleum hydrocarbons as gasoline cleanup levels for ground water is 800 µg/L if benzene is present, or 1,000 µg/L if benzene is not present

µg/L = micrograms per liter

Dup = duplicate sample

EPA = United States Environmental Protection Agency

LPH = liquid phase hydrocarbons present; not sampled

MTCA = Method Toxics Control Act

Data Qualifiers (analytical laboratory data qualifiers in upper case, data validation qualifiers in lower case)

J or j = Estimated value. The analyte was positively identified, but the associated numerical result is an estimate.

u = Not detected (data validation qualifier only)

uj = Not detected. The associated numerical value is an estimate of the Method Detection Limit (data validation qualifier only).

r = Data rejected. The presence or absence of the analyte cannot be verified (data validation qualifier only).

TABLE 3

**GROUND WATER ANALYTICAL DATA,
METHYL TERTIARY BUTYL ETHER AND ETHANOL**

Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Sample Date	MTBE [1] µg/L	MTBE [2] µg/L	Ethanol [3] µg/L
B-1	5/1/1998	6	--	--
	5/23/2000	<0.30	--	<200
	5/24/2001	<0.3	--	--
	6/5/2002	<0.3	--	<200
	5/29/2003	<20	--	<200
	6/15/2004	<20	--	<200
	6/20/2005	<5.0	--	<200
	6/6/2006	<0.320	--	<45.1
	10/24/2006	<0.310	--	<62
B-2	4/29/1998	<500	--	--
	7/30/1999	<200	--	<200
	5/23/2000	<200	--	880
	5/24/2001	LPH	LPH	LPH
	6/5/2002	LPH	LPH	LPH
	5/29/2003	130	--	<200
	6/15/2004	<200	--	<200
	6/20/2005	LPH	LPH	LPH
	6/6/2006	LPH	LPH	LPH
	10/23/2006	22.1	--	<62
	5/24/2001	LPH	LPH	LPH
B-3	6/5/2002	LPH	LPH	LPH
	6/15/2004	LPH	LPH	LPH
	6/20/2005	LPH	LPH	LPH
	6/6/2006	LPH	LPH	LPH
	10/23/2006	LPH	LPH	LPH
B-4	7/29/1999	<6	--	<200
	5/23/2000	<1.5	--	<200
	5/23/2001	<10	--	<200
	6/5/2002	LPH	LPH	LPH
	5/29/2003	<50	--	<200
	6/15/2004	LPH	LPH	LPH
	6/20/2005	LPH	LPH	LPH
	6/6/2006	LPH	LPH	LPH
	10/23/2006	LPH	LPH	LPH
B-5	4/29/1998	100	--	--
	7/29/1999	<2	--	--
	5/23/2000	<5.0	--	<200
	5/23/2001	<1.5	--	<200
	6/5/2002	<5.0	--	<200
	5/29/2003	<20	--	<200
	6/15/2004	<50	--	<200
	6/22/2005	<5.0	--	<200
	6/6/2006	<0.320	--	<45.1
	10/23/2006	0.770J	--	<62
B-6	9/17/1997	<200	--	<200

TABLE 3

**GROUND WATER ANALYTICAL DATA,
METHYL TERTIARY BUTYL ETHER AND ETHANOL**

Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Sample Date	MTBE [1] µg/L	MTBE [2] µg/L	Ethanol [3] µg/L
B-6 (cont.)	4/29/1998	210	7	--
	7/29/1999	<3	--	--
	5/24/2001	<20	--	--
	6/5/2002	LPH	LPH	LPH
	5/29/2003	<50	--	<200
	6/15/2004	<100	--	8,400
	6/21/2005	<10	--	<200
	6/6/2006	<0.320	--	<45.1
	10/23/2006	0.780J	--	<62
D-4	6/7/2006	<0.320	--	<45.1
	10/23/2006	--	--	--
D-6	4/30/1998	0.5	--	--
	5/23/2000	3.8	--	<200
	5/23/2001	<10	5	<200
	6/5/2002	<2.0	--	<200
	5/27/2003	<0.3	--	<200
	6/15/2004	<5.0	--	<200
	6/22/2005	<1.0	--	<200
	6/7/2006	<0.320	--	<45.1
	10/23/2006	<0.310	--	<62
D-7	4/30/1998	12	--	--
	5/23/2000	<0.3	--	<200
	5/23/2001	<0.3	--	<200
	6/4/2002	<0.3	--	<200
	5/27/2003	<5.0	--	<200
	6/15/2004	<10	--	<200
	6/22/2005	<0.3	--	<200
	6/7/2006	<0.320	--	<45.1
	10/24/2006	<0.310	--	<62
HA-1	4/29/1998	<0.3	--	--
	5/24/2000	<0.3	--	<200
	5/23/2001	<0.3	--	<200
	6/4/2002	<0.3	--	<200
	5/28/2003	<0.3	--	<200
	6/15/2004	<0.3	--	<200
	6/22/2005	<0.3	--	<200
	6/7/2006	<0.320	--	<45.1
	6/7/2006 (Dup)	<0.320	--	<45.1
HA-2	10/24/2006	<0.310	--	<62
	9/18/1997	<100	--	<10
	5/5/1998	90	--	<200
	7/30/1999	<6	--	--
	5/23/2000	<3.0	--	<200
	5/23/2001	<3.0	--	<200
	6/4/2002	<3.0	--	<200

TABLE 3

**GROUND WATER ANALYTICAL DATA,
METHYL TERTIARY BUTYL ETHER AND ETHANOL**

Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Monitoring Well	Sample Date	MTBE [1] µg/L	MTBE [2] µg/L	Ethanol [3] µg/L
W-2 (cont.)	6/6/2006	15.6	--	<45.1
	10/23/2006	21.7	--	<62
	10/23/2006 (Dup)	18.4	--	<62
W-3	9/18/1997	<1000	--	<500,000
	4/29/1998	60	--	<200
	7/30/1999	<3	--	--
	5/23/2000	<1.5	--	<200
	5/22/2001	<1.5	--	<200
	6/4/2002	<5	--	<200
	5/28/2003	<20	--	<200
	6/16/2004	LPH	LPH	LPH
	6/21/2005	<20	--	<200
	6/6/2006	<0.320	--	<45.1
	10/24/2006	<0.310	--	<62
	10/24/2006 (Dup)	<0.310	--	<62
W-4	4/29/1998	40	--	--
	7/30/1999	<3	--	--
	5/23/2001	LPH	LPH	LPH
	6/4/2002	<6	--	<200
	5/28/2003	<10	--	<200
	6/15/2004	LPH	LPH	LPH
	6/21/2005	<10	--	<200
	6/6/2006	<0.320	--	<45.1
	10/24/2006	<0.310	--	<62

Notes

[1] Methyl tertiary butyl ether analyzed by EPA Method 8020A (modified) through 2005; beginning in 2006, methyl tertiary butyl ether analyzed by EPA Method 8260B

[2] Methyl tertiary butyl ether by EPA Method 8260A

[3] Ethanol per EPA Method 8000A prior to 2006, Method 8260B starting in 2006

Data Qualifiers (analytical laboratory data qualifiers in upper case, data validation qualifiers in lower case)

J or j = Estimated value. The analyte was positively identified, but the associated numerical result is an estimate.

u = Not detected (data validation qualifier only)

uj = Not detected. The associated numerical value is an estimate of the Method Detection Limit (data validation qualifier only).

r = Data rejected. The presence or absence of the analyte cannot be verified (data validation qualifier only).

-- = Not Analyzed

< = Concentration less than detection limit listed

µg/L = micrograms per liter

Dup = duplicate sample

EPA = United States Environmental Protection Agency

LPH = liquid phase hydrocarbons present; not sampled

TABLE 4

GROUND WATER ANALYTICAL DATA, TRIP BLANK SAMPLES

Former Mobil Bulk Terminal
2423 Lind Avenue SW, Renton, Washington

Sample Identification	Sample Date	TPH Gasoline µg/L	Benzene µg/L	Toluene µg/L	Ethyl Benzene µg/L	Xylenes µg/L	MTBE µg/L	Ethanol µg/L
TB-1-060606	6/6/2006	<40.0	<0.290	<0.280	<0.340	<0.820	<0.320	<45.1
TB-2-060606	6/6/2006	<40.0	<0.290	<0.280	<0.340	<0.820	<0.320	<45.1
B-2-102306-TB	10/23/2006	9.85J	<0.310	<0.220	<0.230	<0.440	<0.310	<62.0
W-1-102306-TB	10/23/2006	9.68J	<0.310	<0.220	<0.230	<0.440	<0.310	<62.0

Notes

Benzene, toluene, ethylbenzene, xylenes, MTBE, and ethanol analyzed by EPA Method 8260B

"<" = less than

µg/L = micrograms (s) per liter

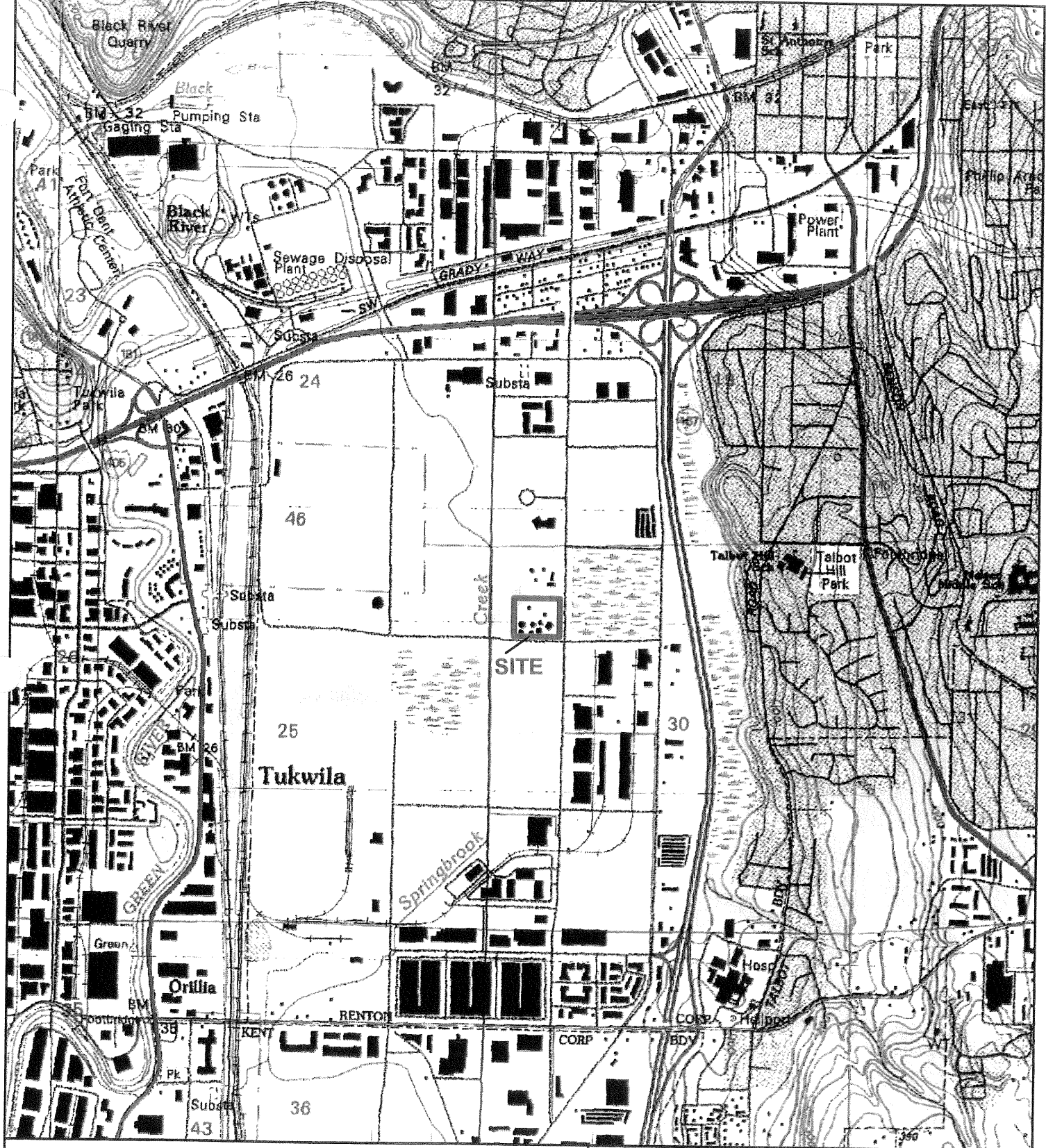
EPA = United States Environmental Protection Agency

J = estimated value

mg/L = milligrams (s) per liter

MTBE = methyl tertiary butyl ether

TPH = Total petroleum hydrocarbons by Northwest analytical method



Source:
Base Map from USGS Renton, Washington,
7.5 Minute Topographic Quadrangle (1994)

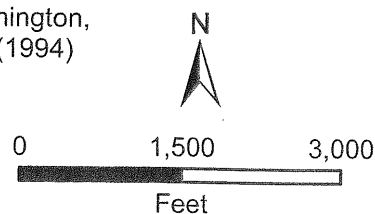
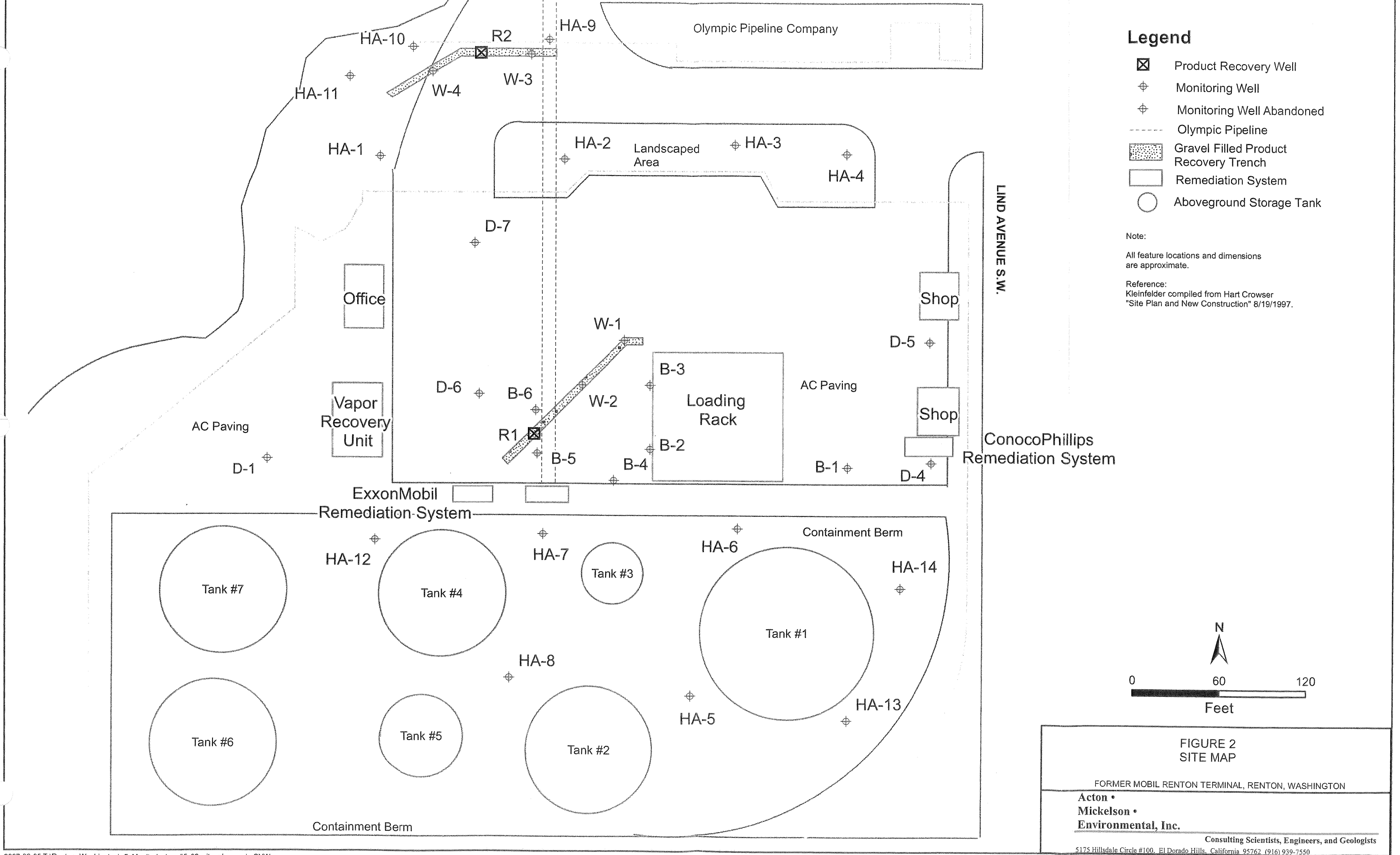


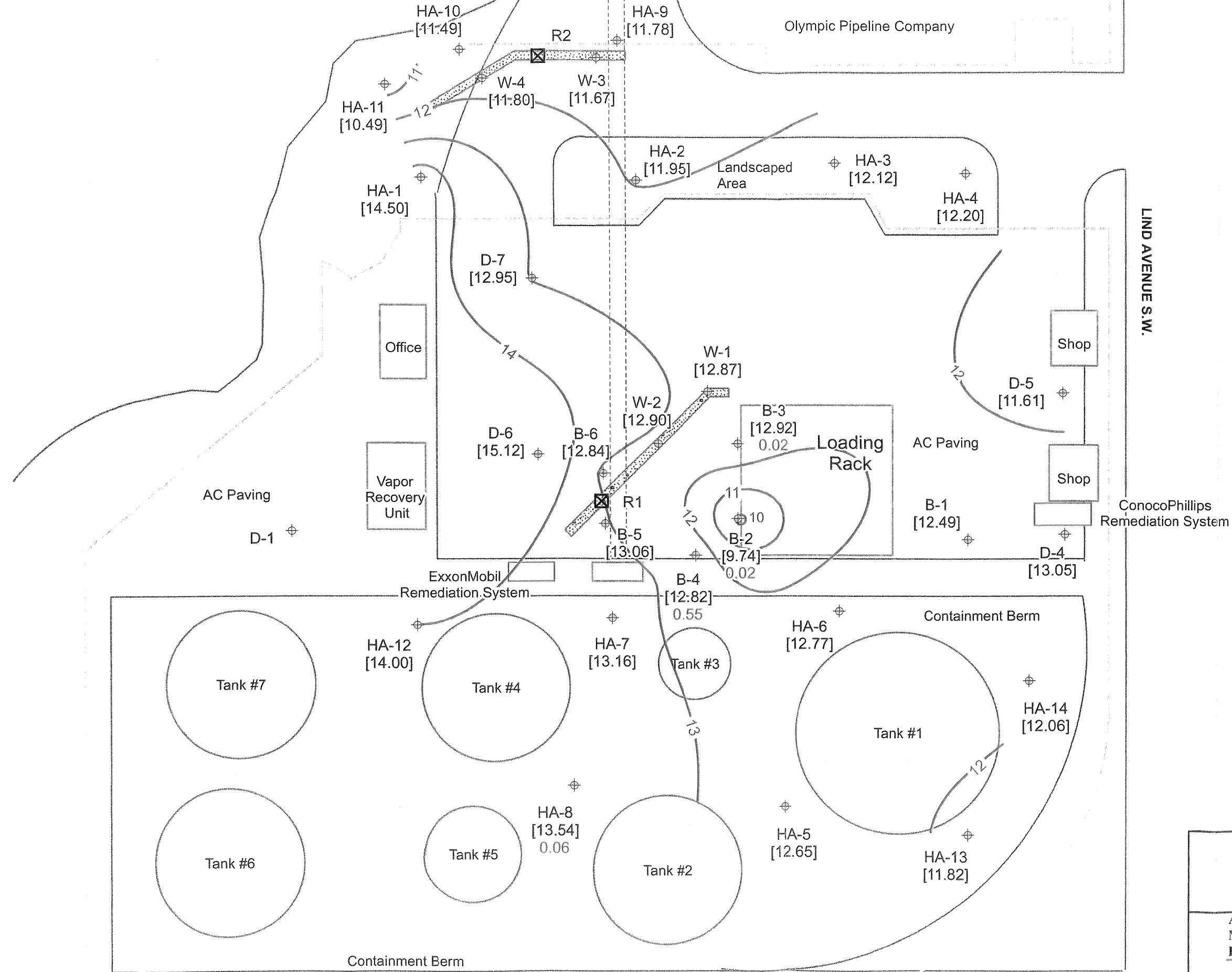
FIGURE 1
SITE LOCATION MAP

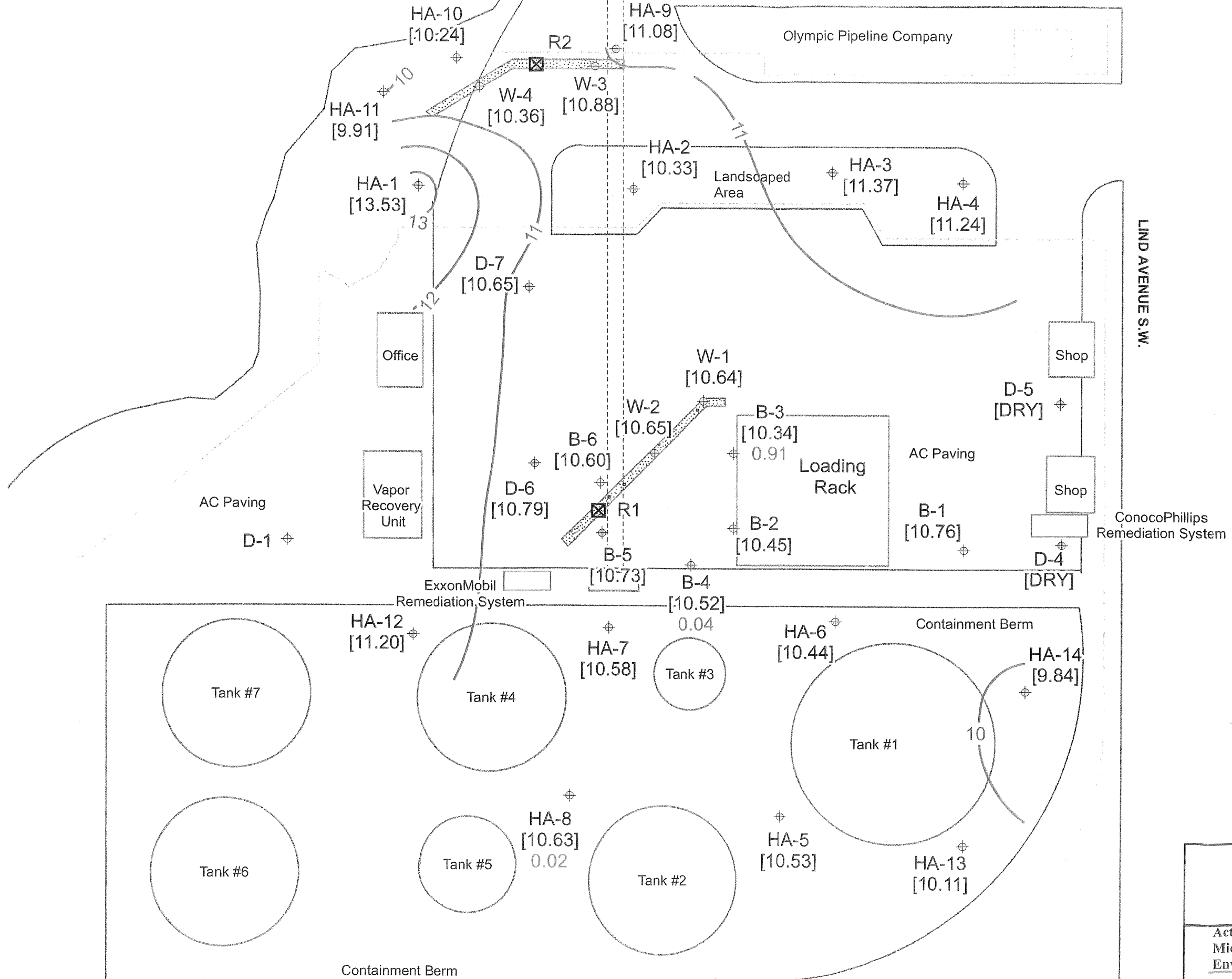
FORMER MOBIL RENTON TERMINAL, RENTON, WASHINGTON

Acton •
Mickelson •
Environmental, Inc.

Consulting Scientists, Engineers, and Geologists
5175 Hillsdale Circle #100, El Dorado Hills, California 95762 (916) 939-7550







Legend

- Product Recovery Well
- Monitoring Well
- Monitoring Well Abandoned
- Olympic Pipeline
- Gravel Filled Product Recovery Trench
- Remediation System
- Aboveground Storage Tank
- Inferred Ground Water Contour in Feet Above Mean Sea Level
- Ground Water Elevation in Feet Above Mean Sea Level
- Liquid Phase Hydrocarbons Thickness in Feet

Note:
All feature locations and dimensions are approximate.

Reference:
Kleinfelder compiled from Hart Crowser
"Site Plan and New Construction" 8/19/1997.

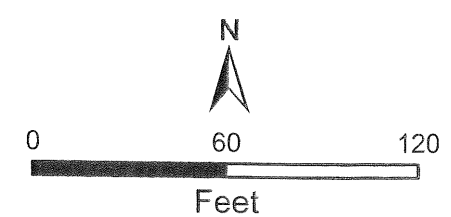


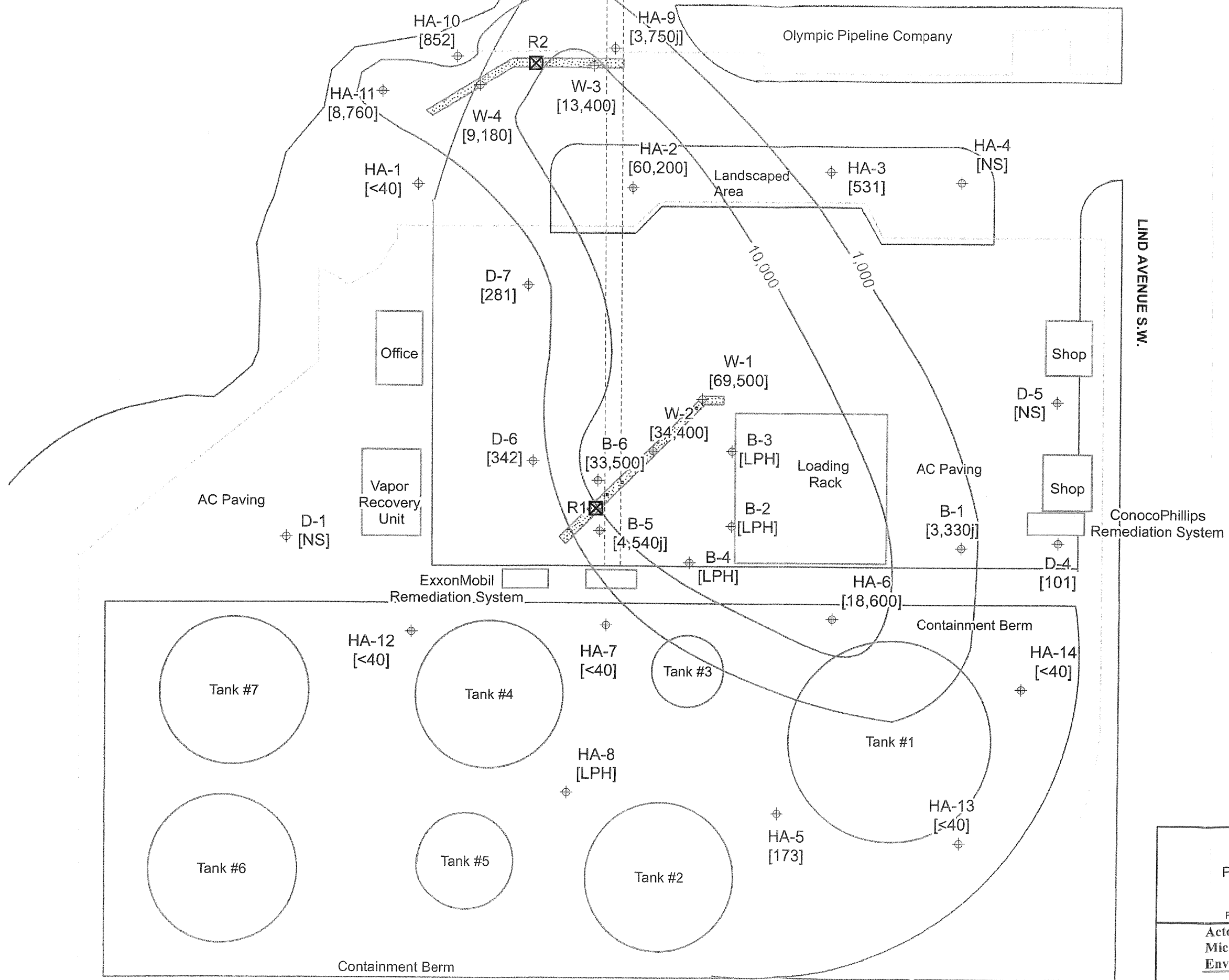
FIGURE 3B
GROUND WATER ELEVATION CONTOURS
OCTOBER 23, 2006

FORMER MOBIL RENTON TERMINAL, RENTON, WASHINGTON

Acton •
Mickelson •
Environmental, Inc.

Consulting Scientists, Engineers, and Geologists

5175 Hillsdale Circle #100, El Dorado Hills, California 95762 (916) 939-7550



Legend

- Product Recovery Well
- Monitoring Well
- Monitoring Well Abandoned
- Olympic Pipeline
- Gravel Filled Product Recovery Trench
- Remediation System
- Aboveground Storage Tank
- Inferred TPHg Concentration Contour in Micrograms Per Liter
- TPHg Concentration in Micrograms Per Liter
- Less Than Method Detection Limit

Note:

All feature locations and dimensions are approximate.

LPH = Liquid Phase Hydrocarbons
 TPHg = Total Petroleum Hydrocarbons as Gasoline
 NS = Not Sampled
 j = Estimated value. The analyte was positively identified, but the associated numerical result is an estimate.

Reference:
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 "Site Plan and New Construction" 8/19/1997.

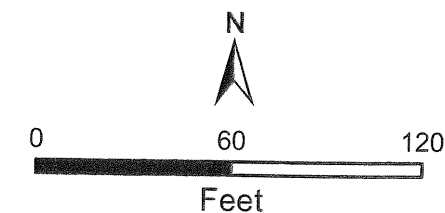


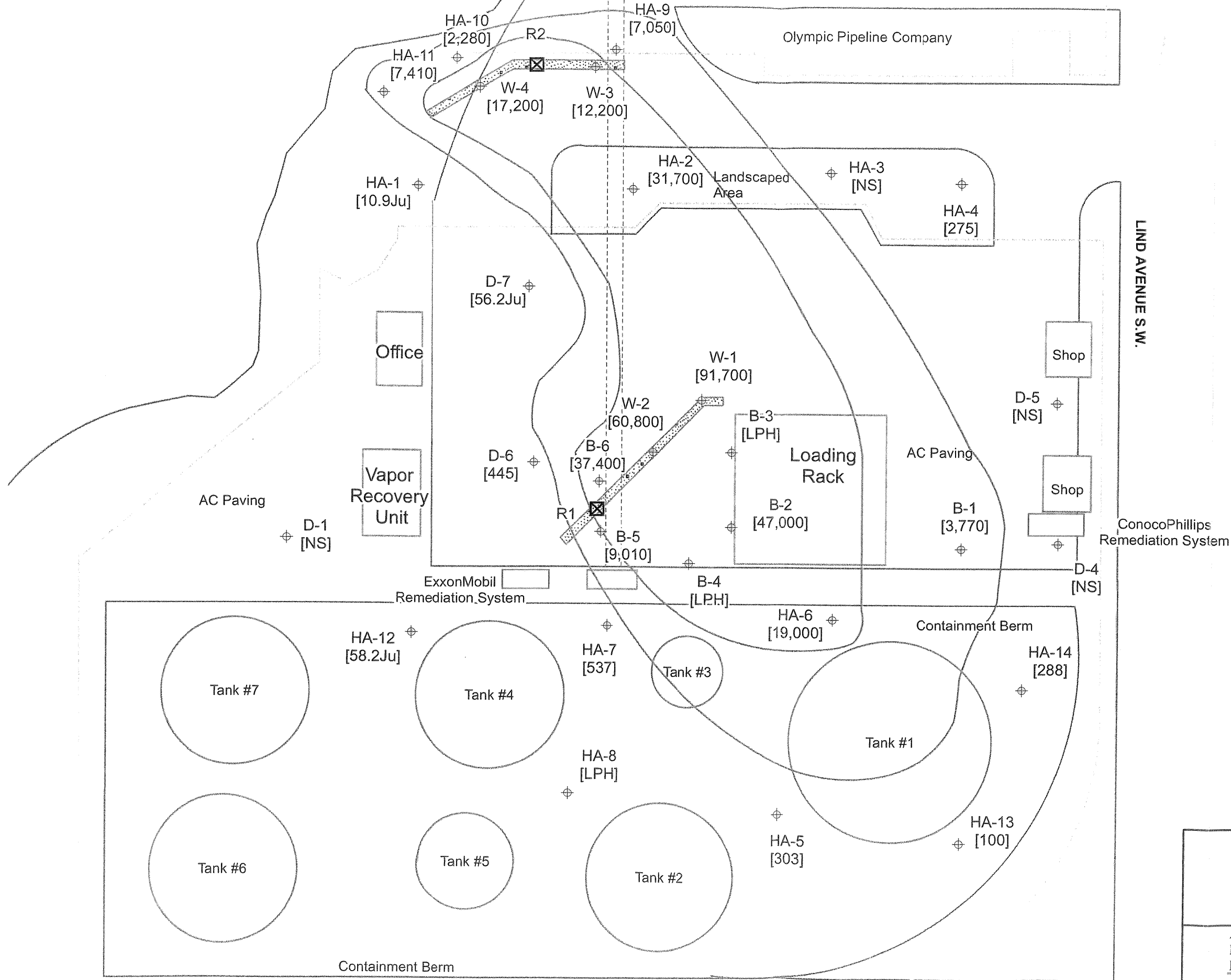
FIGURE 4A
 LATERAL DISTRIBUTION OF TOTAL
 PETROLEUM HYDROCARBONS AS GASOLINE
 IN GROUND WATER, JUNE 6 AND 7, 2006

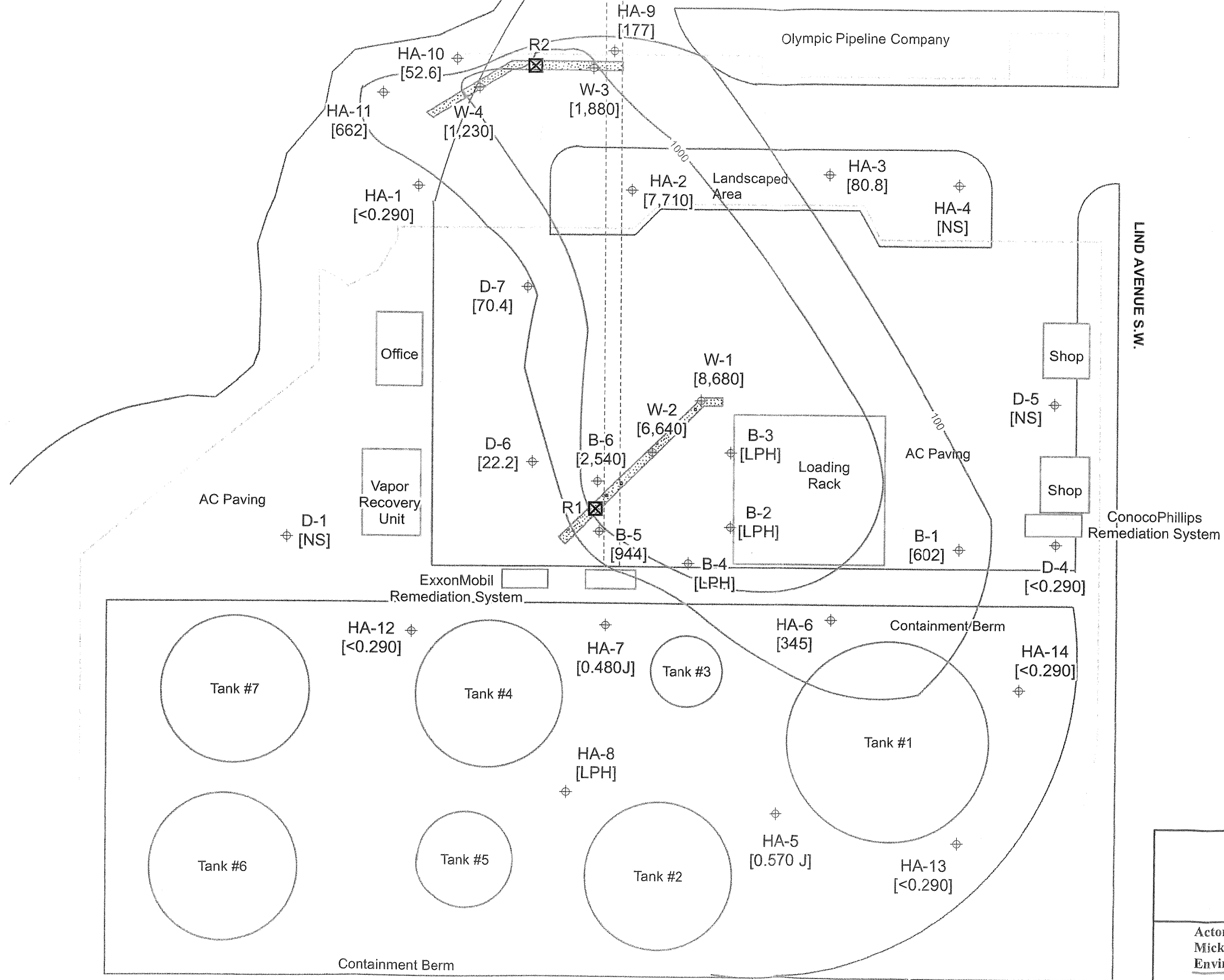
FORMER MOBIL RENTON TERMINAL, RENTON, WASHINGTON

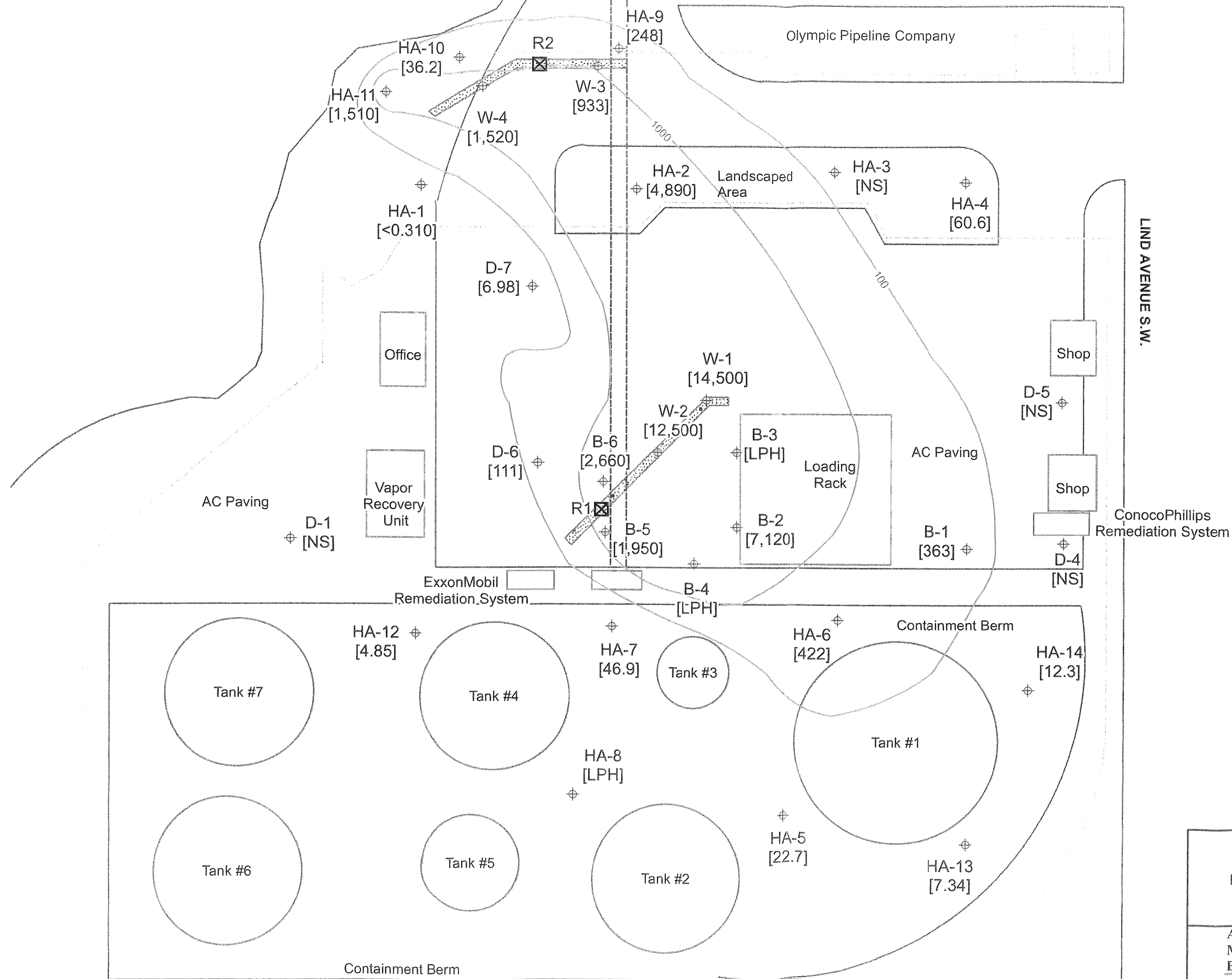
Acton •
Mickelson •
Environmental, Inc.

Consulting Scientists, Engineers, and Geologists

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APPENDIX A

Sampling Techniques

APPENDIX A—SAMPLING TECHNIQUES

Proper sampling techniques must be followed so that samples represent actual field conditions and that samples are labeled, preserved, and transported properly to retain sample integrity. This appendix describes procedures to be followed by Acton • Mickelson • Environmental, Inc. (AME), during collection of subsurface soil and ground water samples and remediation system process samples. Sampling guidance documents from the American Society of Testing and Materials (ASTM), U.S. Environmental Protection Agency (EPA), and California Environmental Protection Agency (Cal-EPA) will be followed for all sampling procedures. Actual sampling procedures to be employed will be based on field conditions and may differ from those described here.

1. Exploration Boring/Soil Sampling Procedures

Soil borings and soil sampling will be performed under the direction of an appropriately registered AME professional. The soil borings unless otherwise specified will be advanced using a truck-mounted, hollow-stem auger drill rig.

Soil samples will be collected at vertical intervals of not more than 5 feet. Soil sampling will be done in general accordance with ASTM D1586-84 (reapproved 1992), modified to allow the use of a 2-inch-diameter split-barrel sampler. Using this procedure, three 2-inch-diameter, 6-inch-length, brass tubes are placed in a California-type split-barrel sampler. The sampler is driven into the soil by a 140-pound weight falling 30 inches. After driving the sampler an initial set of 6 inches (seating drive), the number of blows required to drive the sampler an additional 12 inches is known as standard penetration resistance, or the "N" value. The "N" value is used as an empirical measure of the relative density of cohesionless soil and the consistency of cohesive soil.

Upon recovery of the split-barrel sampler, the brass tubes containing the soil will be removed. One of the three brass tubes will be sealed at the ends with Teflon® tape and plastic end caps. The percent recovery of the sample will be recorded. The sample will be labeled with an identification number, time, date, location, and requested laboratory analysis. The sample will then be placed in a plastic bag and stored at approximately 4° Celsius (C) in an ice chest for transport to the laboratory. Sample custody procedures outlined in Section 7 of this exhibit will be followed. This will be performed for each sample collection.

Soil in one of the brass tubes will be extracted upon recovery, placed in a plastic bag, sealed, and placed out of direct sunlight for later screening for organic vapors using a photoionization detector (PID) or a flame ionization detector (FID). The remaining portion of the soil sample will be examined and a complete log of soil conditions will be recorded on a soil boring log (Enclosure A) using the Unified Soil Classification System (Enclosure B). The soil will be examined for composition, color, and moisture content.

The split-barrel sampler will be cleaned to prevent cross-contamination for each sampling interval using procedures described in Section 4.

Soil borings will normally be advanced with 8- or 10-inch-diameter, hollow-stem augers. The soil generated from the soil borings will be stored in 55-gallon drums and labeled with the corresponding boring number, date, and address of the facility. Alternatively, the soil generated from the soil borings may be wrapped in plastic and stored on site until characterized for disposal.

2. Measurements of Water Level and Apparent Thickness of Phase Separated Hydrocarbons, Also Known as Liquid-Phase Hydrocarbons

For sites where PSH may be present, the static water level and apparent PSH thickness in each well will be measured with an electronic interface probe prior to purging or sampling. The wire of the interface probe is marked at 0.01 foot intervals. One tone is emitted from the interface probe if PSH is encountered; another tone for water. The wire of the interface probe will be lowered slowly until PSH or water is encountered. At this point, the mark on the interface wire opposite the permanent reference point on the top of the well casing will be read to the nearest 0.01 foot and recorded. If the first encountered substance is PSH, the probe will be lowered until the tone corresponding to water is emitted. This depth will also be recorded. The difference between the two depths corresponds to the apparent PSH thickness. The interface probe will be rinsed in a cleaning solution and deionized water between measurements in different wells.

A disposable bailer will be used to collect a sample of PSH, if present in a well, for subjective analysis. The sample will be collected by gently lowering the bailer approximately one-half the bailer length past the air/PSH interface. The appearance (color, opacity, "freshness") will be described and noted on field notes.

For sites where PSH is not present, either a conductance probe level meter or an electronic interface probe will be used to measure static water level. The conductance probe level meter emits a steady tone upon encountering any conductive fluid (i.e., water). Like the interface probe, the wire of the conductance probe level meter has markings at 0.01 foot intervals, and the procedure for obtaining static water levels with the conductance probe level meter is basically the same as for an interface probe when PSH is not encountered.

A permanent reference point will be marked on the well casings. The permanent reference point on the well casings will be surveyed to a common reference point. All well casing riser elevations will be known to within 0.01 foot.

3. Ground Water Sampling

Ground water sampling will be done in general accordance with ASTM D4448 (reapproved 1992).

3.1 Well Evacuation

Where monitoring well purging is required prior to collection of a ground water sample, stagnant water will be removed from the well casing and the surrounding gravel pack by bailing, pumping, or with a vacuum truck. At least three casing volumes of water will be removed from each well from which a sample is to be collected (unless low-flow purging is performed for measurement of

dissolved oxygen as described in Section 3.2). The volume of water in the casing will be determined from the known elevation of the water surface, the well bottom elevation (as measured when the well is installed), and the well diameter.

If the well is bailed or pumped during purging, samples will be collected and field analyzed for pH, temperature, and specific conductance. The well will be considered stabilized when repeated readings of the following parameters are within the ranges indicated as follows:

- Specific conductance ± 10 percent of the reading range
- pH ± 0.1 pH unit
- Temperature $\pm 0.5^{\circ}$ C

After stabilization, and after at least three casing volumes are evacuated, a sample will be collected for analysis. The field container used for well stabilization measurements, and the pH, temperature, and conductivity probes will be rinsed between wells with deionized water.

All purge water will be containerized and properly handled and documented for disposal. If the containers are stored on site, a label specifying the date of purging, source, and the known or suspected nature of the contents will be affixed to each container.

3.2 Low-Flow Well Evacuation (Measuring Dissolved Oxygen)

Where accurate measurement of dissolved oxygen (DO) concentration is necessary, a low-flow purging method is used. Ground water is removed from the well at a rate of 0.5 gallon per minute or less. The ground water purge flow is directed into a flow-through sampling chamber containing a field analyzer for DO. The well is considered stabilized and the DO concentration recorded when repeated measurements of DO are within a range of 0.1 milligram per liter. The well can then be sampled as described in Section 3.4 even if less than three casing volumes of ground water are removed.

3.3 Geoprobe® Sampling

Undisturbed ground water samples may be obtained with a Geoprobe® sampling apparatus. When the termination depth of a boring is reached (i.e., when soil is observed to be wet, but not saturated), a Geoprobe® sampling apparatus will be driven approximately 2 feet into the saturated zone. The tool will then be withdrawn approximately 18 inches to expose the inlet screen and allow ground water to flow into the interior of the sampling device. The Geoprobe® will be withdrawn from the subsurface after allowing ample time for the sampling device to fill with ground water.

After the Geoprobe® is retrieved, a stop cock will be attached to the device for sample retrieval. The sample will then be placed in laboratory-supplied containers.

3.4 Sample Collection, Preservation, and Handling

A new polyethylene disposable bailer will be used to collect ground water samples for analysis. The bailer is attached to a new disposable rope and lowered slowly into the water to avoid agitation of

the collected sample. Containers for volatile organics analyses will be filled completely so that no airspace remains in the vial after sealing.

All sample containers will be prewashed and prepared at the analyzing laboratory in accordance with quality assurance/quality control protocols of the laboratory. Only sample containers appropriate for the intended analyses will be used.

After sample collection, the samples will be placed into coolers with ice packs. Internal temperature of the cooler will be maintained at approximately 4° C. Samples will be kept in coolers during transport to the analyzing laboratory.

4. Remediation System Sampling and Monitoring

4.1 Water Sampling

Water samples will be collected in the container(s) appropriate for the analysis. Containers will be filled from a sampling port. After collection, samples will be placed into coolers maintained at approximately 4 degrees C and kept in coolers until delivery to the analyzing laboratory.

4.2 Air and Soil Vapor Sampling

Process air and soil vapor samples for laboratory analysis will be collected in either Tedlar sampling bags or evacuated Summa canisters. The sampling container will be filled from a process sampling port. A vacuum pump connected to the sampling port will be used to fill Tedlar bags, and to fill Summa canisters when the sample is from a process point under vacuum. After collection, samples will be placed into coolers at ambient temperature to block exposure to direct sunlight and will be kept in coolers until delivery to the analyzing laboratory.

4.3 Air and Soil Vapor Monitoring

Field monitoring of process air (or soil vapor) will normally be performed with an FID. Using a sampling port with discharge tubing running into an open-top sample bottle (e.g., 500-milliliter polyethylene), the sampling port valve is opened to allow sample flow into the sample bottle. A vacuum pump is used to produce sample flow from process points under low or negative pressure. With sample flowing through the open-top bottle, the FID probe is inserted into the sample bottle and the reading recorded upon reaching steady state. As an alternative to the FID, a Draeger® tube can be inserted in the sample bottle and a measurement obtained following the specific instructions for the type of tube used.

Field monitoring of vadose zone soil vapor may be performed with an FID or a lower explosive limit (LEL) meter. The probe of the FID or LEL meter is lowered to the screen interval of the well and the highest reading is recorded. Alternatively, a vacuum pump can be connected to the wellhead and a measurement obtained from a sample bottle as described above.

5. Decontamination Procedures

All equipment that comes in contact with potentially contaminated soil, drilling fluid, air, or water will be decontaminated before each use. Decontamination will consist of steam-cleaning, a high-pressure, hot-water rinse, or trisodium phosphate (TSP) or Alconox®/Liquinox® wash and freshwater rinse, as appropriate.

Drilling and sampling equipment will be decontaminated as follows:

1. Drill rig augers, drill rods, and drill bits will be steam-cleaned prior to use and between borings. Visible soil, grease, and other impurities will be removed.
2. Soil sampling equipment will be steam-cleaned prior to use and between each boring. Prior to individual sample collection, any sampling device will also be cleaned in a TSP or Alconox®/Liquinox® solution and rinsed twice in clean water. Any visible soil residue will be removed.
3. It is anticipated that disposable equipment will be used to collect water samples. If disposable equipment is not used, water sampling equipment will be decontaminated using methods described in Item 2 above for soil sampling equipment.
4. Water sampling containers will be cleaned and prepared by the respective analytical laboratories.
5. Stainless steel or brass soil sampling tubes will be steam-cleaned or washed in TSP or Alconox®/Liquinox® solution and rinsed with clean water.
6. Field monitoring equipment (pH, conductivity, or temperature probes) will be rinsed with clean water prior to use and between samples.

6. Field Measurements

Field data will be collected during various sampling and monitoring activities; this section describes routine procedures to be followed by personnel performing field measurements. The methods presented below are intended to ensure that field measurements are consistent and reproducible when performed by various individuals.

6.1 Buried Utility Locations

Prior to commencement of work on site, AME will contact appropriate utility companies to have underground utility lines located. All work associated with the borings will be preceded by hand augering to a minimum depth of 5 feet below the ground surface to avoid contact with underground utilities.

6.2 Lithologic Logging

A log of soil conditions encountered during drilling and sample collection (Enclosure A) will be maintained using the Unified Soil Classification System (Enclosure B) by an AME geologist. All boring logs will be reviewed by a California registered geologist.

The collected soil samples will be examined and the following information recorded: boring location, sample interval and depth, blow counts, color, soil type, moisture content (qualitative), and depth at which ground water (if present) is first encountered. Also recorded on the soil boring logs will be the field screening results obtained using a portable PID or FID.

6.3 Conductivity, Temperature, and pH

Specific conductance, water temperature, and pH measurements will be made when a water sample is collected. Regardless of the sample collection method, a representative water sample will be placed in a transfer bottle used solely for field parameter determinations. A conventional pH meter with a combination electrode or equivalent will be used for field-specific conductance measurements. Temperature measurements will be performed using standard thermometers or equivalent temperature meters. Combination instruments capable of measuring two or all three of the parameters may also be used.

All instruments will be calibrated in accordance with manufacturer methods. The values for conductivity standards and pH buffers used in calibration will be recorded daily in a field notebook. All probes will be thoroughly cleaned and rinsed with fresh water prior to any measurements, in accordance with Section 5.

7. Disposal Procedures

Soil and fluids that are produced and/or used during the installation and sampling of borings, and that are known or suspected to contain potentially hazardous materials, will be contained during the above operations. These substances will be retained on site until chemical testing has been completed to determine the proper means of disposal. Handling and disposal of substances known or suspected to contain potentially hazardous materials will comply with the applicable regulations of the Cal-EPA, the California Department of Water Resources, and any other applicable regulations. Soil and fluids produced and/or used during the above-described operations that appear to contain potentially hazardous materials will be disposed of appropriately.

Residual substances generated during cleaning procedures that are known or suspected to pose a threat to human health or the environment will be placed in appropriate containers until chemical testing has been completed to determine the proper means for their disposal.

8. Sample Custody

This section describes standard operating procedures for sample custody and custody documentation. Sample custody procedures will be followed through sample collection, transfer, analysis, and ultimate disposal. The purpose of these procedures is to assure that (1) the integrity of samples is maintained during their collection, transportation, and storage prior to analysis and (2) post-analysis sample material is properly disposed of. Sample custody is divided into field procedures and laboratory procedures, as described below.

8.1 Field Custody Procedures

Sample quantities, types, and locations will be determined before the actual fieldwork commences. As few people as possible will handle samples. The field sampler is personally responsible for the care and custody of the collected samples until they are properly transferred.

8.1.1 Field Documentation

Each sample will be labeled and sealed properly immediately after collection. Sample identification documents will be carefully prepared so that identification and chain-of-custody records can be maintained and sample disposition can be controlled. Forms will be filled out with waterproof ink. The following sample identification documents will be utilized.

- Sample labels
- Field notebook
- Chain-of-custody forms

8.1.2 Sample Labels

Sample labels provide identification of samples. Preprinted sample labels will be provided. Where necessary, the label will be protected from water and solvents with clean label-protection tape. Each label will contain the following information:

- Name of collector
- Date and time of collection
- Place of collection
- AME project number
- Sample number
- Preservative (if any)

8.1.3 Field Notebook

Information pertinent to a field survey, measurements, and/or sampling will be recorded in a bound notebook or on the daily field log. Entries in the notebook should include the following:

- Name and title of author, date and time of entry, and physical/environmental conditions during field activity

- Location of sampling or measurement activity
- Name(s) and title(s) of field crew
- Type of sampled or measured media (e.g., soil, ground water, air, etc.)
- Sample collection or measurement method(s)
- Number and volume of sample(s) taken
- Description of sampling point(s)
- Description of measuring reference points
- Date and time of collection or measurement
- Sample identification number(s)
- Sample preservative (if any)
- Sample distribution (e.g., laboratory)
- Field observations/comments
- Field measurements data (pH, etc.)

8.1.4 Chain-of-Custody Record

A chain-of-custody record will be filled out for and will accompany every sample and every shipment of samples to the analytical laboratories in order to establish the documentation necessary to trace sample possession from the time of collection. The record will contain the following information:

- Sample or station number or sample I.D
- Signature of collector, sampler, or recorder
- Date and time of collection
- Place of collection
- Sample type
- Signatures of persons involved in the chain of possession
- Inclusive dates of possession

The laboratory portion of the form should be completed by laboratory personnel and will contain the following information:

- Name of person receiving the sample
- Laboratory sample number
- Date and time of sample receipt
- Analyses requested

- Sample condition and temperature

8.1.5 Sample Transfer and Shipment

Samples will always be accompanied by a chain-of-custody record. When transferring samples, the individuals relinquishing and receiving the samples will sign, date, and note the time on the chain-of-custody record. Samples will be packaged properly for shipment and dispatched to the appropriate laboratory for analysis. The chain-of-custody record will accompany each shipment. The method of shipment, courier name(s), and other pertinent information will be entered in the chain-of-custody record.

8.2 Laboratory Custody Procedures

A designated sample custodian will accept custody of the shipped samples and verify that the information on the sample label matches that on the chain-of-custody record. Information regarding method of delivery and sample conditions will also be checked on the chain-of-custody record. The custodian will then enter the appropriate data into the laboratory sample tracking system. The laboratory custodian may use the sample number on the sample label or may assign a unique laboratory number to each sample. The custodian will then transfer the sample(s) to the proper analyst(s) or store the sample(s) in the appropriate secure area.

Laboratory personnel are responsible for the care and custody of samples from the time they are received until the sample is exhausted. Once at the laboratory, the samples are handled in accordance with U.S. Environmental Protection Agency SW-846, Test Methods for Evaluating Solid Waste Physical/Chemical Methods, Third Edition, for the intended analyses. All data sheets, chromatographs, and laboratory records will be filed as part of the permanent documentation.

8.3 Corrections to Documentation

Original data recorded in field notebooks, chain-of-custody records, and other forms should be written in ink. These documents should not be altered, destroyed, or discarded, even if they are illegible or contain inaccuracies that require a replacement document.

If an error is made or found on a document, the individual making the corrections will do so by crossing a single line through the error, entering the correct information, and initialing and dating the change. The erroneous information will be obliterated. Any subsequent error(s) discovered on a document will be corrected. All corrections will be initialed and dated.

8.4 Sample Storage and Disposal

Samples and extracts should be retained by the analytical laboratory for 30 days after receipt. Unless notified by the program manager, excess or unused samples should be disposed of by the laboratory in an appropriate manner consistent with applicable government regulations.

LOCATION INFORMATION

BORING DESIGNATION

AME PROJECT NUMBER
FACILITY NAME AND ADDRESS

**ACTON •
MICKELSON •
ENVIRONMENTAL, INC.**

LOG OF BORING

Facility:

Address:

5049 Robert J. Mathews Parkway #200
El Dorado Hills, CA 95762

AME Project No.:

DRILLING INFORMATION

Area No./Description:

Page 1 of 1

DATE AND TIME
OF DRILLING

Drilling Company:
Drilled By:
Drilling Method:
Boring Diameter:
Sampling Method:

Location (East/North):
Ground Surface Elevation:
Water Depth (Date, Time):
Casing Elevation:
Total Depth (feet):
Weather:

Drilling Started:
Drilling Finished:

Logged By:
Checked By:

Source:

PID/FID:

DEPTH (feet)	SAMPLE INTERVAL	SAMPLE ID (% FILLED)	BLOW COUNTS		SOIL DESCRIPTION SOIL NAME, COLOR, RELATIVE DENSITY OR CONSISTENCY, MOISTURE, PARTICLE SIZE RANGE, OTHER	GRAPHIC LOG	SOIL CLASS	WELL GRAPHIC	COMMENTS DRILLING RATE AND CONDITIONS, WATER DEPTH, BACKFILL	FIELD PID/FID READING (ppm)
			BLOWS/6 IN. (N)	IN RECYD						
0										
5										
10										
15										
20										
25										
30										

HAND AUGER

ROCK CORE

STANDARD PENETRATION
TEST (SPT)

CALIFORNIA MODIFIED
SPLIT SPOON SAMPLER

PUNCHLINE CORE

SAMPLE PORTION
RETAINED FOR ANALYSIS

INDICATES A CHANGE
IN SOIL PROPERTIES

INDICATES AN INTERVAL
WITHIN A SOIL CLASS

COMPLETE SAMPLE
IDENTIFIER, AND PERCENT
OF SAMPLE TUBE FILLED
WITH SOIL (OPTIONAL)

BLOW COUNT FROM SPT
OR CAL. MOD. SAMPLER
AND N-VALUE (SUM OF
LAST TWO 6" INTERVALS)

INCHES RECOVERED FROM SAMPLER

GROUND WATER ELEVATION

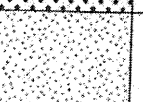
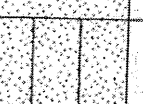
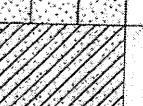
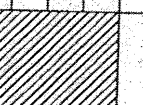
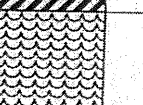
GRAPHIC LITHOLOGY PER USCS CHART

UNIFIED SOIL CLASSIFICATION SYSTEM (USCS) CODE

GRAPHIC OF WELL CONSTRUCTION (IF APPLICABLE)

PID/FID READINGS FROM SOIL SAMPLES,
IN PARTS PER MILLION (ppm)

UNIFIED SOIL CLASSIFICATION SYSTEM CHART

MAJOR DIVISION			SYMBOL		GROUP NAME ^A AND TYPICAL DESCRIPTION		
			GRAPH	LETTER			
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS		GW ^B	WELL-GRADED GRAVEL ^C : GRAVEL - SAND MIXTURES, LITTLE OR NO FINES		
		(LESS THAN 5% FINES)		GP ^B	POORLY-GRADED GRAVEL ^C : GRAVEL - SAND MIXTURES, LITTLE OR NO FINES		
		GRAVELS WITH FINES		GM ^B	SILTY GRAVEL ^C : GRAVEL - SAND - SILT MIXTURES		
		(MORE THAN 15% FINES)		GC ^B	CLAYEY GRAVEL ^C : GRAVEL - SAND - CLAY MIXTURES		
	SAND AND SANDY SOILS	CLEAN SANDS		SW	WELL-GRADED SAND ^D : GRAVELLY SANDS, LITTLE OR NO FINES		
		(LESS THAN 5% FINES)		SP	POORLY-GRADED SAND ^D : GRAVELLY SANDS, LITTLE OR NO FINES		
		SANDS WITH FINES		SM	SILTY SAND ^D : SAND - SILT MIXTURES		
		(MORE THAN 15% FINES)		SC	CLAYEY SAND ^D : SAND - CLAY MIXTURES		
		FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	SILT ^E : INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
						CL	LEAN CLAY ^E : INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
	OL				ORGANIC CLAY/ORGANIC SILT ^E : ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY		
SILTS AND CLAYS	LIQUID LIMIT 50 OR GREATER			MH	ELASTIC SILT ^E : INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS		
			CH	FAT CLAY ^E : INORGANIC CLAYS OF HIGH PLASTICITY			
			OH	ORGANIC CLAY/ORGANIC SILT ^E : ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS			
HIGHLY ORGANIC SOILS				PT	PEAT: HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS		

NOTES: A) IF FIELD SAMPLE CONTAINS COBBLES OR BOULDERS, ADD "WITH COBBLES" AND/OR "WITH BOULDERS" TO GROUP NAME
B) DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS WITH 5-15% FINES, ADD "WITH SILT" OR "WITH CLAY" TO GROUP NAME
C) IF SOIL CONTAINS 15% OR MORE SAND, ADD "WITH SAND" TO GROUP NAME
D) IF SOIL CONTAINS 15% OR MORE GRAVEL, ADD "WITH GRAVEL" TO GROUP NAME
E) IF SOIL CONTAINS 30% OR MORE PLUS NO. 200, ADD "SANDY" OR "GRAVELLY" TO GROUP NAME. IF 15-25%, ADD "WITH SAND" OR "WITH GRAVEL", WHICHEVER IS PREDOMINANT.

APPENDIX B

Sampling/Development Information Forms

ACTON • MICKELSON - ENVIRONMENTAL, INC.

GROUND WATER LEVEL DATA

Project Name Former Mobil Renton Terminal # 46-080

Project Number 13042.01

Date 6/5/06 Field Crew BAR / JWS

Measuring Device Interface Probe

Well No.	Time	Depth to Product (feet)	Depth to Ground Water (feet)	Product Thickness (feet)	Reference Elevation (feet)	Ground Water Elevation (feet)	Physical Observations/Comments
B1	1433	ND	6.13	NA	18.62		
B2	1421	8.85	8.87	0.02	18.5	12.49	
B3	1503	5.80	5.82	0.02	18.73	12.92	$(0.02 \times 0.73) = 0.014 \Rightarrow 18.5 - 8.87 + 0.01 = 9.64$
B4	1458	5.12	5.67	0.55	18.09	12.83	$(0.02 \times 0.73) = 0.014 \Rightarrow 18.73 - 5.82 + 0.01 = 12.92$
B5	1430	ND	4.91	NA	17.97	13.06	$(0.55 \times 0.73) = 0.401 \Rightarrow 18.09 - 5.67 + 0.41 = 12.83$
B6	1427	ND	5.10	NA	17.34	12.24	12.84
D4	1435	ND	4.77	NA	17.82	13.05	B2
D5	1438	ND	6.51	NA	18.12	11.61	B3
D6	1416	ND	2.62	NA	17.74	15.12	
D7	1407	ND	4.74	NA	17.69	12.95	
HA1	1358	ND	5.00	NA	19.50	14.50	
HA2	1353	ND	6.22	NA	18.17	11.95	
HA3	1350	ND	8.91	NA	21.03	12.12	
HA4	1351	ND	8.04	NA	20.24	12.20	
HA5	1443	ND	5.42	NA	18.07	12.65	
HA6	1445	ND	5.39	NA	18.16	12.77	

Signature

ACTON • MICKELSON • ENVIRONMENTAL, INC.

GROUND WATER LEVEL DATA

Project Name Former Mobil Renton Terminal # 46-080

Project Number 13042.01

Date 6/5/06 Field Crew BAR / JWS

Measuring Device Interface Probe

Well No.	Time	Depth to Product (feet)	Depth to Ground Water (feet)	Product Thickness (feet)	Reference Elevation (feet)	Ground Water Elevation (feet)	Physical Observations/Comments
HA7	1448	ND	5.28	NA	18.44	13.16	
HA8	1457	5.32	5.38	0.06	18.88	13.54 13.75	
HA9	1346	ND	7.62	NA	19.40	11.78	$0.06 \times 0.73 = 0.0438$ $18.88 - 5.38 = 13.50 + 0.0438 = 13.5438$
HA10	1342	ND	7.84	NA	19.33	11.49	
HA11	1400	ND	7.57	NA	18.51	10.94	
HA12	1450	ND	5.91	NA	19.91	14.00	
HA13	1442	ND	7.74	NA	18.56 19.56	11.82 12.82	
HA14	1441	ND	7.96	NA	20.02	12.06	
W1	1530 1348	ND	5.99	NA	18.86	12.87	
W2	1425	ND	5.38	NA	18.28	12.90	
W3	1348	ND	5.43	NA	17.10	11.67	
W4	1525	ND	6.23	NA	18.03	11.80	
							Notes
							ND = Not Detected, NA = Not Applicable
							Assumed Free Product Density of 0.73
							(gasoline - fresh)

Signature 

13042.00/9

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point B1
 Sample I.D. — B1-060606
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01

Field Crew BAR

Well Depth 9.18 feet below measuring point (MP)
 Depth to Water (below MP) 6.13 feet
 Number of case volumes evacuated before sampling:
 0.65 x linear feet of H₂O column =

Casing Diameter 2 1/4 inches

Time: _____

Sampling/Development Method:

____ Tap

____ Bailer

____ Submersible

X Peristaltic Pump

____ Centrifugal Pump

Pump intake or bailer set at ~7.5 feet below MP

Sample Appearance: clear

Note any Sampling Problems: none

Note any Equipment Washing: Decon Interface Probe

Samples Collected/Time: B1-060606: NWTPHdx, NWTPHgy, BTEX, MTBE

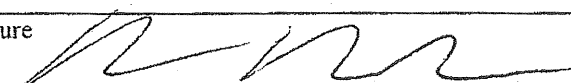
EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x 10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gpm) (gallons) LPM	Pumping Rate (gpm) LPM
0905	6.64	0.785	12	15.9	0.98			0.20
0910	6.64	0.775	14	15.9	0.94			
0915	6.64	0.733	11	16.0	1.03			
0920	6.64	0.715	10	16.1	1.09			
0925	6.63	0.687	9	16.2	0.89			

Purge Start Time 0900
 Sample Stop Time 0930

Water Level (amsl) _____

Comments:

Signature 

Date

6-6-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point B5
 Sample I.D. - B5-060606
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 12.09 feet below measuring point (MP)
 Depth to Water (below MP) 4.91 feet
 Number of case volumes evacuated before sampling:
 0.65 x linear feet of H₂O column =

Casing Diameter 2 inches

Time: _____

Sampling/Development Method:

_____ Tap _____ Bailer
 _____ Submersible X Peristaltic Pump _____ Centrifugal Pump

Pump intake or bailer set at _____ feet below MP

Sample Appearance: clear

Note any Sampling Problems: none

Note any Equipment Washing: Decon Interface Probe

Samples Collected/Time: B5-060606 for NWTPHdx, NWTPHgx, BTEX, MTBE, 3 ET

EVACUATION/STABILIZATION TEST DATA

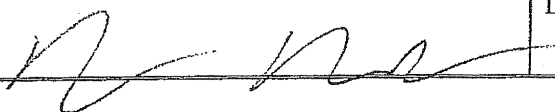
Time	pH (units)	Temperature Corrected Conductance (mS/cm $\times 10^3$)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons) / feet	Pumping Rate (gpm) LPM
0721	6.16	0.214	19	16.0	0.69		1	0.25 LPM
0725	6.19	0.215	13	16.1	0.67		2	↓
0729	6.22	0.219	09	16.1	0.61		3	
0733	6.28	0.234	8	16.2	0.54		4	↓

Purge Start Time 0717
 Sample Stop Time 0735

Water Level (amsl) _____

Comments: Draw down monitored, total $\leq$ 0.24 feet

Signature



Date

6-6-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point BL
 Sample I.D. - BL-060606
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 11.75 feet below measuring point (MP)
 Depth to Water (below MP) 5.10 feet
 Number of case volumes evacuated before sampling:
 0.65 x linear feet of H₂O column =

Casing Diameter 2 1/4 inches

Time: _____

Sampling/Development Method:

☐ Tap ☐ Bailer
☐ Submersible ☒ Peristaltic Pump ☐ Centrifugal Pump

Pump intake or bailer set at ~10.25 feet below MP

Sample Appearance: CLEAR

Note any Sampling Problems: None

Note any Equipment Washing: Decon Interfac probe

Samples Collected/Time: BL-060606 @ 0805

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm * 10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons) <u>1.700</u>	Pumping Rate (gpm) LPM
<u>0750</u>	<u>6.22</u>	<u>0.242</u>	<u>133</u>	<u>14.2</u>	<u>1.21</u>			<u>0.25</u>
<u>0755</u>	<u>6.27</u>	<u>0.252</u>	<u>131</u>	<u>14.2</u>	<u>1.14</u>			<u>0.20</u>
<u>0800</u>	<u>6.28</u>	<u>0.227</u>	<u>138</u>	<u>14.2</u>	<u>1.19</u>			<u>0.20</u>

Purge Start Time 0744
 Sample Stop Time 0809

Water Level (amsl) _____

Comments: Lowered rate to 0.20 lpm due to excessive drawdown (~0.14 feet)
in first purge cycle

Signature [Signature]

Date 6-6-04

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point D4
 Sample I.D. - D4-060706
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 5.53 feet below measuring point (MP) Casing Diameter 2 1/2 inches
 Depth to Water (below MP) 4.77 feet
 Number of case volumes evacuated before sampling: Time:
~~0.65 x linear feet of H₂O column~~ 0.17 x 1.14 = 0.2 gallons available
 Sampling/Development Method:
☐ Tap ☐ Bailer
☐ Submersible ☐ Peristaltic Pump ☐ Centrifugal Pump

Pump intake or bailer set at 15.9 feet below MP

Sample Appearance: clear, though some particulate included when well approached
 Note any Sampling Problems: see comments
 Note any Equipment Washing: Decon interface probe
 Samples Collected/Time: D4-060706 @ 0930

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)

Purge Start Time _____
 Sample Stop Time 0930

Water Level (amsl) _____

Comments: ① As well approached being "dry" only affected the TPH/A sample.
Particulate appeared organic.

Signature 

Date 6-7-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point D5
 Sample I.D. - None collected
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 6.52 feet below measuring point (MP)
 Depth to Water (below MP) 6.51 feet

Casing Diameter 4 2 inches

Number of case volumes evacuated before sampling:

Time:

~~0.65 x linear feet of H2O column =~~ 0.17 x 0.41 = 0.08 to 0.07 gallons in well

Sampling/Development Method:

☐ Tap ☐ Bailer
☐ Submersible N/A Peristaltic Pump ☐ Centrifugal Pump

Pump intake or bailer set at _____ feet below MP

Sample Appearance: _____

Note any Sampling Problems: Insufficient quantity of H2O (0.41' x 0.17 = 0.08 gallons)

Note any Equipment Washing: Decon Interface probe

Samples Collected/Time: _____

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x 10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)

Purge Start Time _____
 Sample Stop Time _____

Water Level (amsl) _____

Comments: ~ 0.08 gallons available w/ 75% of available below the screen interval.

Signature [Signature]

Date

6-6-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point D4
 Sample I.D. - D4-060706
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 5.93 feet below measuring point (MP)
 Depth to Water (below MP) 4.77 feet

Casing Diameter 2 1/4 inches

Number of case volumes evacuated before sampling:

Time:

~~0.65 x linear feet of H₂O column~~ 0.17 x 1.14 = 0.2 gallons available

Sampling/Development Method:

☐ Tap

☐ Bailer

☐ Submersible

☐ Peristaltic Pump

☐ Centrifugal Pump

Pump intake or bailer set at 5.9 feet below MP

Sample Appearance: clear, though some particulate included when well approached ①

Note any Sampling Problems: see comments

Note any Equipment Washing: Decon interface probe

Samples Collected/Time: D4-060706 @ 0930

EVACUATION/STABILIZATION TEST DATA

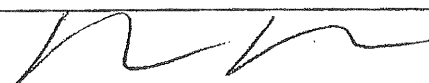
Time	pH (units)	Temperature Corrected Conductance (mS/cm x10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)

Purge Start Time _____

Sample Stop Time 0930

Water Level (amsl) _____

Comments: ① As well approached being "dry" only affected the TPTA sample.
 Particulate appeared organic.

Signature 

Date

6-7-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point D5
 Sample I.D. - None collected
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 6.92 feet below measuring point (MP)
 Depth to Water (below MP) 6.51 feet
 Number of case volumes evacuated before sampling:

Casing Diameter 4 2 inches

0.65 x linear feet of H2O column = 0.17 x 0.41 = 0.08 to 0.07 gallons in well

Sampling/Development Method:

Submersible Tap Bailer
Peristaltic Pump Centrifugal Pump

Pump intake or bailer set at _____ feet below MP

Sample Appearance: _____

Note any Sampling Problems: Insufficient quantity of H2O (0.41' x 0.17 = 0.08 gallons)

Note any Equipment Washing: Decon Interface probe

Samples Collected/Time: _____

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x 10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)

Purge Start Time _____
 Sample Stop Time _____

Water Level (amsl) _____

Comments: ~ 0.08 gallons available w/ 75% of available below the screen interval.

Signature [Signature]

Date 6-6-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point D4
 Sample I.D. - D4-060706
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 5.53 feet below measuring point (MP)
 Depth to Water (below MP) 4.77 feet

Casing Diameter 2 1/4 inches

Number of case volumes evacuated before sampling:

Time:

~~0.65 x linear feet of H2O column~~ 0.17 x 1.14 = 0.2 gallons available

Sampling/Development Method:

☐ Tap

☐ Bailer

☐ Submersible

☐ Peristaltic Pump

☐ Centrifugal Pump

Pump intake or bailer set at 5.9 feet below MP

Sample Appearance: clear, though some particulate included when well approached ①

Note any Sampling Problems: see comments

Note any Equipment Washing: Decon interface probe

Samples Collected/Time: D4-060706 @ 0930

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x 10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)

Purge Start Time _____
 Sample Stop Time 0930

Water Level (amsl) _____

Comments: ① As well approached being "dry" - only affected the TPLH sample.
 Particulate appeared organic.

Signature



Date

6-7-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point DS
 Sample I.D. - None collected
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 6.92 feet below measuring point (MP)
 Depth to Water (below MP) 6.51 feet
 Number of case volumes evacuated before sampling:

Casing Diameter 4 2 inches

0.65 x linear feet of H₂O column = 0.17 x 0.41 = 0.08 to 0.07 gallons in well

Sampling/Development Method:

☐ Tap ☐ Bailer
☐ Submersible NA ☐ Peristaltic Pump ☐ Centrifugal Pump

Pump intake or bailer set at _____ feet below MP

Sample Appearance: _____

Note any Sampling Problems: Insufficient quantity of H₂O (0.41' x 0.17 = 0.08 gallons)

Note any Equipment Washing: Decon Interface probe

Samples Collected/Time: _____

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x 10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)

Purge Start Time _____
 Sample Stop Time _____

Water Level (amsl) _____

Comments: ~ 0.08 gallons available w/ 75% of available below the screen interval.

Signature _____

Date

6-6-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point DL
 Sample I.D. - DL-060706
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 10.04 feet below measuring point (MP)
 Depth to Water (below MP) 2.62 feet

Casing Diameter 1 1/2 inches

Number of case volumes evacuated before sampling:

Time:

~~0.65 x linear feet of H₂O column~~ 7.42 x 0.17 = ~1 1/4 gallons

Sampling/Development Method:

☐ Tap ☐ Bailer
☐ Submersible ☒ Peristaltic Pump ☐ Centrifugal Pump

Pump intake or bailer set at ~9 feet below MP

Sample Appearance: clear

Note any Sampling Problems: see comments

Note any Equipment Washing:

Samples Collected/Time: DL-060706 c for NWTPHdx, NWTPHgx, BTEX, MTBE, ET

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x 10 ²)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)
1416	6.65	0.358	47	20.1	1.42			0.70
1421	6.41	0.333	43	20.3	1.37			
1424	6.59	0.322	45	20.4	1.31			↓

Purge Start Time 1412
 Sample Stop Time 1430

Water Level (amsl) _____

Comments: Purged by using line clogged while sampling, a lot of silt sits on the bottom and along the screen that the intake was plugging. This well, as well as others, needs rehab. X
* While filling the 16 amber

Signature

Date



6-7-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point D7
 Sample I.D. - D7-060706
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 10.07 feet below measuring point (MP)
 Depth to Water (below MP) 4.74 feet
 Number of case volumes evacuated before sampling:
 0.65 x linear feet of H₂O column =

Casing Diameter 12 inches

Time: _____

Sampling/Development Method:

____ Tap _____ Bailer
 _____ Submersible ☒ Peristaltic Pump _____ Centrifugal Pump

Pump intake or bailer set at _____ feet below MP

Sample Appearance: cloudy-gray (slightly)
 Note any Sampling Problems: None
 Note any Equipment Washing: Decon Interface Probe
 Samples Collected/Time: D7-060706; 1L amber, and 6-vials for NWTPHGX, DX, BTEX
ET 3 MTBF

EVACUATION/STABILIZATION TEST DATA

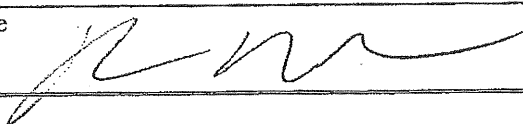
Time	pH (units)	Temperature Corrected Conductance (mS/cm x10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)
1447	6.79	0.136	191	19.9	0.59	79.9		0.20
1452	6.73	0.136	188	19.8	0.47			↓
1458	6.71	0.138	194	19.9	0.44			

Purge Start Time 1442
 Sample Stop Time 1505

Water Level (amsl) _____

Comments: High turbidity due to murky initial purge

Signature



Date

6-7-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point DL6
 Sample I.D. - DL6-060706
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 10.04 feet below measuring point (MP)
 Depth to Water (below MP) 2.62 feet
 Number of case volumes evacuated before sampling:

Casing Diameter 2 inches

0.65 x linear feet of H₂O column = 7.42 x 0.17 = ~1 1/4 gallons

Time: _____

Sampling/Development Method:

____ Tap _____ Bailer
 _____ Submersible X Peristaltic Pump _____ Centrifugal Pump

Pump intake or bailer set at ~9 feet below MP

Sample Appearance: clear

Note any Sampling Problems: see comments

Note any Equipment Washing: _____

Samples Collected/Time: DL6-060706 c for NWTPHdx, NWTPHgx, BTEX, MTBE, ET

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x 10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)
1416	6.65	0.358	47	20.1	1.42			0.70
1421	6.41	0.333	43	20.3	1.37			↓
1424	6.59	0.322	45	20.4	1.31			

Purge Start Time 1412
 Sample Stop Time 1430

Water Level (amsl) _____

Comments: Purged day during line clogged while sampling, a lot of silt sits on the bottom and along the screen that the intake was plugging. This well, as well as others, needs rehab. X
* While filling the 16 amber

Signature [Signature]

Date 6-7-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point D7
 Sample I.D. - D7-060706
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 10.07 feet below measuring point (MP)
 Depth to Water (below MP) 4.74 feet
 Number of case volumes evacuated before sampling:
 0.65 x linear feet of H₂O column =

Casing Diameter 12 inches

Time: _____

Sampling/Development Method:

____ Tap _____ Bailer
 _____ Submersible ☒ Peristaltic Pump _____ Centrifugal Pump

Pump intake or bailer set at _____ feet below MP

Sample Appearance: cloudy-gray (slightly)
 Note any Sampling Problems: none
 Note any Equipment Washing: Decon Interface Probe
 Samples Collected/Time: D7-060706; 1L amber, and 6-VOLs for NWTPHGX, DX, BTEX
ET & MTBE

EVACUATION/STABILIZATION TEST DATA

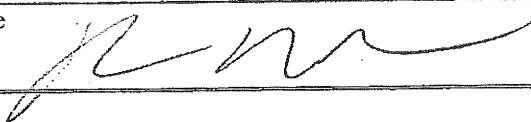
Time	pH (units)	Temperature Corrected Conductance (mS/cm x 10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)
1447	6.79	0.136	191	19.9	0.59	79.9		0.20
1452	6.73	0.136	188	19.8	0.47			↓
1458	6.71	0.138	194	19.9	0.44			

Purge Start Time 1442
 Sample Stop Time 1505

Water Level (amsl) _____

Comments: High turbidity due to murky initial purge

Signature



Date

6-7-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point HAI
 Sample I.D. - HAI-060706
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 10.19 feet below measuring point (MP)
 Depth to Water (below MP) 5.00 feet
 Number of case volumes evacuated before sampling:
 0.65 x linear feet of H2O column =

Casing Diameter 2 inches

Time: _____

Sampling/Development Method:

____ Tap _____ Bailer
 _____ Submersible X Peristaltic Pump _____ Centrifugal Pump

Pump intake or bailer set at _____ feet below MP

Sample Appearance: Clear

Note any Sampling Problems: none - drawdown during purge

Note any Equipment Washing: Decon interface probe.

Samples Collected/Time: Blind duplicate DUPE-1-060706 & HAI-060706 for
BTEX, nitrate, ET, NWTPhg, NWTPhda.

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x 10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (liters/gallons)	Pumping Rate (gpm)
1514	6.18	0.097	142	17.6	1.34		~1	~0.20
1519	6.10	0.097	135	17.4	0.95		2	
1524	5.99	0.096	118	17.3	0.89		3	
1529	5.96	0.096	112	17.2	0.82		4	↓

Purge Start Time 1509
 Sample Stop Time 1530

Water Level (amsl) _____

Comments: Duplicate DUPE-1-060706 collected

Signature [Signature]

Date 6-7-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point HAZ
 Sample I.D. - HAZ-060604
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 8.48 feet below measuring point (MP)
 Depth to Water (below MP) 6.22 feet
 Number of case volumes evacuated before sampling:
 0.65 x linear feet of H₂O column =

Casing Diameter 4 inches

Time: _____

Sampling/Development Method:

☐ Tap ☐ Bailer
☐ Submersible ☒ Peristaltic Pump ☐ Centrifugal Pump

Pump intake or bailer set at _____ feet below MP

Sample Appearance: _____

Note any Sampling Problems: _____

Note any Equipment Washing: _____

Samples Collected/Time: _____

EVACUATION/STABILIZATION TEST DATA

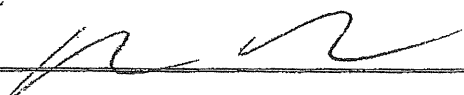
Time	pH (units)	Temperature Corrected Conductance (mS/cm $\times 10^3$)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)
1047	6.62	1.01	319	17.3	0.77			0.20
1052	6.67	1.07	332	17.2	0.70			↓
1057	6.67	1.00	298	17.1	0.61			↓

Purge Start Time 1042
 Sample Stop Time 1100

Water Level (amsl) _____

Comments: Turn rate to as low as possible, rate @ 0.20 ^{gpm} well cannot sustain - took grab sample through DO was slightly out of range.

Signature



Date

6-8-04

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point HA3
 Sample I.D. - HA3-060706
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 10.17 feet below measuring point (MP)
 Depth to Water (below MP) 8.91 feet

Casing Diameter 2 inches

Number of case volumes evacuated before sampling: _____ Time: _____

~~0.65 x linear feet of H₂O column~~ 0.17 x 1.26 = ~0.2 gallons

Sampling/Development Method:

____ Tap _____ Bailer
 _____ Submersible ☒ Peristaltic Pump _____ Centrifugal Pump

Pump intake or bailer set at ~10 feet below MP

Sample Appearance: CLEAR w/ trace suspended (organics?)

Note any Sampling Problems: Well pumped dry after 6-40 mil VOA's & ~60% of an 1-L Amber

Note any Equipment Washing: Decon Interface Probe

Samples Collected/Time: HA3-060706

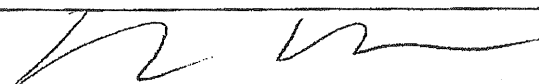
EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x 10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)

Purge Start Time _____
 Sample Stop Time 0840 ✓

Water Level (amsl) _____

Comments: Well had not recharged greater than 2 to 3-inches by 1600.
Due to available quantity of H₂O, a grab sample was
collected.

Signature 

Date 6-7-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point HAY
 Sample I.D. - HAY-060606
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 10.19 feet below measuring point (MP)
 Depth to Water (below MP) 8.64 feet
 Number of case volumes evacuated before sampling:
 0.65 x linear feet of H₂O column =

Casing Diameter 2 x inches

Time: _____

Sampling/Development Method:

_____ Tap _____ Bailer
 _____ Submersible ☒ Peristaltic Pump _____ Centrifugal Pump

Pump intake or bailer set at _____ feet below MP

Sample Appearance: clear
 Note any Sampling Problems: none see comments
 Note any Equipment Washing: Decon Interface Probe
 Samples Collected/Time: HAY-060606 for NWTPHdx, NWTPHdx, BTEX, MAB and Ethanol - 6 spots, 1 analysis

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm $\times 10^3$)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)
1117	6.44	0.220	85	16.5	1.10			~ 0.20
1122	6.37	0.202	73	16.4	1.04			
1127	6.35	0.181	82	16.4	0.99			
1132	6.33	0.175	84	16.3	0.95			

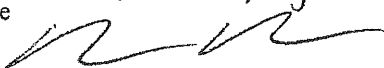
Purge Start Time 1112
 Sample Stop Time 1135

Water Level (amsl) _____

Comments: well purged dry - try tried lowering pump rate below 0.20 lpm
but no production - slow recharge

Reattempt sampling on 6/7/06 - 2 to 3 inches H₂O in well.

Signature



Date

6-6-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point HAS
 Sample I.D. = HAS-060706
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 9.78 feet below measuring point (MP)
 Depth to Water (below MP) 5.42 feet
 Number of case volumes evacuated before sampling: 0.65 x linear feet of H2O column = 0.17 x 4.36 = 0.75 gallons available

Time: _____

Sampling/Development Method:

____ Tap
 ____ Submersible
 ____ Bailer
☒ Peristaltic Pump

Centrifugal Pump

Pump intake or bailer set at _____ feet below MP

Sample Appearance: clear
 Note any Sampling Problems: none/sec comments for explanation on short evac
 Note any Equipment Washing: Decon Interface probe
 Samples Collected/Time: HAS-060706 @ 1100

EVACUATION/STABILIZATION TEST DATA

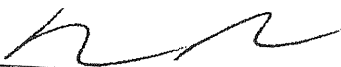
Time	pH (units)	Temperature Corrected Conductance (mS/cm x 10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)
1108	6.44	0.381	9	14.1	1.85		1.45	
1111	6.44	0.389	10	14.1	1.61		1	0.33
							2	0.33

Purge Start Time 1105
 Sample Stop Time 1115

Water Level (amsl) _____

Comments: Well purged to $\leq 0.35'$ H₂O upon completion of sample collection. But purge short to allow sample collection based on HA14 and HA13. Due to amount of drawdown, this may be a grab sample.

Signature



Date

6-7-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point HAG
 Sample I.D. - HA-6-06-0706
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01

Field Crew BAR

Well Depth 9.79 feet below measuring point (MP)
 Depth to Water (below MP) 5.34 feet
 Number of case volumes evacuated before sampling:
 0.65 x linear feet of H₂O column =

Casing Diameter X2 inches

Time:

Sampling/Development Method:

☐ Tap

☐ Submersible

☐ Bailer

☒ Peristaltic Pump

☐ Centrifugal Pump

Pump intake or bailer set at _____ feet below MP

Sample Appearance: CLEAR H₂S-odor

Note any Sampling Problems: none

Note any Equipment Washing: Decon Interface Probe

Samples Collected/Time: HA-060706; 1L Amber and 6 vials; NWTPH_{gas}, NWTPH_{dr}, BTEX, ET, and MTBE

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x 10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)
6:07		0.779	36	13.1	1.23	/		
6:06		0.779	34	13.1	1.01	/		0.020
6:05		0.778	37	13.1	0.87	/		
6:05		0.778	32	13.1	0.76	/		

Purge Start Time 0850

Sample Stop Time 0915 0620

Water Level (amsl) _____

Comments: METER AMBIENT AIR H₂S/LEL/O₂/CO

Signature

[Signature]

Date

6/07/2006

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point HA 7
 Sample I.D. - HA-7-060706
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 9.82 feet below measuring point (MP)
 Depth to Water (below MP) 5.13 feet

Casing Diameter X 2 inches

Number of case volumes evacuated before sampling:

0.65 x linear feet of H₂O column = 4.59 x 0.17 = 3/4 gallons available

Sampling/Development Method:

☐ Tap ☐ Bailer
☐ Submersible ☒ Peristaltic Pump

Pump intake or bailer set at _____ feet below MP

☐ Centrifugal Pump

Sample Appearance: CLEAR

Note any Sampling Problems: none

Note any Equipment Washing: Decon Interface Probe

Samples Collected/Time: HA7-060706 @ 0830

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x 10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. (mg/L)	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)
7.58		0.260	74	13.1	3.77	/		
7.57		0.265	69	13.0	3.38	/		
7.56		0.265	67	12.9	3.60	/		0.25
7.53		0.265	66	12.9	3.55	/		

Purge Start Time 0811

Sample Stop Time 0826 00830

Water Level (amsl) _____

Comments: MULTI-TEST METER H₂S/CO₂/O₂/CL

Signature [Signature]

Date 6/07/2006

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point HA9
 Sample I.D. - HA9060606
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01

Field Crew BAR

Well Depth 9.5 feet below measuring point (MP)
 Depth to Water (below MP) 7.62 feet
 Number of case volumes evacuated before sampling:
 0.65 x linear feet of H2O column =

Casing Diameter 2 1/4 inches

Time: _____

Sampling/Development Method:

☐ Tap ☐ Bailer
☐ Submersible ☒ Peristaltic Pump ☐ Centrifugal Pump

Pump intake or bailer set at to TD feet below MP

Sample Appearance: clear

Note any Sampling Problems: see comments

Note any Equipment Washing: Decon Intertace Probe

Samples Collected/Time: HA9-060606, NWTPHgw, NWTPHdx, BTEX, MTBE, ET

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)

Purge Start Time _____
 Sample Stop Time 1345

Water Level (amsl) _____

Comments: Performed a grab sample for safety due to performance @ HA10, off HA10 cap drop while purging & shutting after purge cycle. Note, HA9 ran dry before filling the chamber, found sample collected after allowing 0-45 minutes of recharge.

Signature

Date

6-6-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point HA10
 Sample I.D. - HA10-060606
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01

Field Crew BAR

Well Depth: 9.81 feet below measuring point (MP)
 Depth to Water (below MP) 7.84 feet

Casing Diameter 2 1/2 inches

Number of case volumes evacuated before sampling:
0.65 x linear feet of H2O column =

Time: _____

Sampling/Development Method:

☐ Tap ☐ Bailer
☐ Submersible ☒ Peristaltic Pump ☐ Centrifugal Pump

Pump intake or bailer set at 10 TD feet below MP

Sample Appearance: _____

Note any Sampling Problems: see notes

Note any Equipment Washing: Decon Interface probe

Samples Collected/Time: _____

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm $\times 10^3$)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)
0955	6.64	6.517	201	16.9	0.07			0.20
1000	6.64	6.491	375	17.3	1.03			↓
1005								

Purge Start Time 0950

Sample Stop Time 1205 1300

Water Level (amsl) _____

Comments: Well obstructed by Roots/organic matter. Fished roots out, but well goes after ~1 liter of purge. Fine particles of roots in purge line (rootinely). Submitted VOA's on chain #5352 (6/6/06) will try to get a liter Amber on 6/7/06. Collected 1L on 6/7/06.

Signature _____

Date _____

6-6-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point HAI1

Sample I.D. - HAI1-060706

Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal

Project No. 13042.01

Field Crew BAR

Well Depth 9.72 feet below measuring point (MP)

Depth to Water (below MP) 7.57 feet

Casing Diameter 2 1/2 inches

Number of case volumes evacuated before sampling:

0.17 x linear feet of H₂O column = 2.45 x 0.17 = ~0.4 gallons Time: _____

Sampling/Development Method:

☐ Tap

☐ Submersible

☐ Bailer

☒ Peristaltic Pump

☐ Centrifugal Pump

Pump intake or bailer set at 9.5 feet below MP

Sample Appearance: CLEAR

Note any Sampling Problems: Gas

Note any Equipment Washing: Decon Interface Probe

Samples Collected/Time: HAI1-060706 12 Amber, 6 Vials for NWTPHOK, NWTPHGX, BTEA, ET and MTBE.

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x 10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)

Purge Start Time _____

Sample Stop Time 0810

Water Level (amsl) _____

Comments: collect grab sample due to available quantity of H₂O. (< 3 liters)

Signature _____

Date

6-7-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point HA12

Sample I.D. - HA-12

Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal

Project No. 13042.01

Field Crew BAR

Well Depth 11.57 feet below measuring point (MP)

Depth to Water (below MP) 6.30 feet

Casing Diameter 12 inches

Number of case volumes evacuated before sampling:

0.65 x linear feet of H2O column = 5.27 x 0.17

Time:

Sampling/Development Method:

☐ Tap

☐ Submersible

☐ Bailer

☒ Peristaltic Pump

☐ Centrifugal Pump

Pump intake or bailer set at _____ feet below MP

Sample Appearance: CLEAR

Note any Sampling Problems: NONE

Note any Equipment Washing: Decon Interface Probe

Samples Collected/Time: HA12-060706 @ 0800: 6 UOA'S & 12 Amber for NWTPHDX
NWTPHGX, BTEX, MTBE, ET

EVACUATION/STABILIZATION TEST DATA

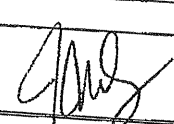
Time	pH (units)	Temperature Corrected Conductance (mS/cm x10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)
	7.51	0.175	5	13.4	1.21	/		
	7.35	0.175	5	13.3	1.14	/		0.25
	7.22	0.175	4	13.4	1.20	/		↓
						/		

Purge Start Time 0743

Sample Stop Time 0759 @ 0800

Water Level (amsl) _____

Comments: MULTI TEST H₂S/CO/LEC/O₂ PRIOR TO START IN AREA
WELL IN TANK FARM

Signature 

Date

6/07/2006

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point HA13

Sample I.D. - HA13-060706

Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
Project No. 13042.01

Field Crew BAR

Well Depth 11.44 feet below measuring point (MP)

Depth to Water (below MP) 7.74 feet

Casing Diameter 1 2 inches

Number of case volumes evacuated before sampling:

$0.65 \times \text{linear feet of H}_2\text{O column} = 0.17 \times 3.7 =$

Time: _____

Sampling/Development Method:

☐ Tap

☐ Submersible

☐ Bailer

☒ Peristaltic Pump

☐ Centrifugal Pump

Pump intake or bailer set at ~11 feet below MP

Sample Appearance: Clear

Note any Sampling Problems: none - note comments

Note any Equipment Washing: Secon Interface Probe

Samples Collected/Time: HA13-060706; 600A, 1L Amber; NWTPHGX, NWTPHGX
BTEX, MTBE, ET

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x 10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)

Purge Start Time _____

Sample Stop Time 1100

Water Level (amsl) _____

Comments: Due to HA14 going dry prior to sample and during sample HA13 was sampled immediately. Noted significant drawdown during suply (~1.0 feet)

Signature [Signature]

Date 6-7-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point HA14
 Sample I.D. - HA-14-060706
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 10.87 feet below measuring point (MP)
 Depth to Water (below MP) 7.96 feet
 Number of case volumes evacuated before sampling:
 0.65 x linear feet of H₂O column = 2.91 x 0.17 ~ 0.5 gallons

Casing Diameter 2 inches

Time: _____

Sampling/Development Method:

____ Tap _____ Bailer
 _____ Submersible ☒ Peristaltic Pump _____ Centrifugal Pump

Pump intake or bailer set at _____ feet below MP

Sample Appearance: Clear

Note any Sampling Problems: (ABLE TO TWIST WELL CASING - comment actually)

Note any Equipment Washing: Dixon Interface Probe

Samples Collected/Time: HA14-060706 @ 1030

EVACUATION/STABILIZATION TEST DATA

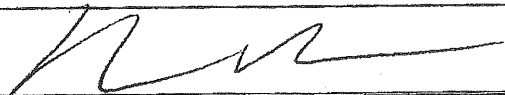
Time	pH (units)	Temperature Corrected Conductance (mS/cm x10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)
	7.30	0.171	48	14.7	4.44	/		0.20
	7.33	0.171	43	14.6	4.04	/		
	7.35	0.171	68	14.6	3.96	/		

Purge Start Time 0944
 Sample Stop Time 1030 @ 1030

Water Level (amsl) _____

Comments: Purged dry while filling the 1L amber. Allowed ~ 1 hour to recharge and finalize sample

Signature



Date

6-7-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.
SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point W1
 Sample I.D. = W1-060706
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 210 8.67 feet below measuring point (MP)
 Depth to Water (below MP) 5.99 feet
 Number of case volumes evacuated before sampling:
 0.65 x linear feet of H₂O column =

Casing Diameter 12 inches
 Time:

Sampling/Development Method:
☐ Tap
☐ Submersible
☒ Bailer
☒ Peristaltic Pump

Pump intake or bailer set at ~8 1/4 feet below MP Centrifugal Pump

Sample Appearance: CLEAR
 Note any Sampling Problems: NONE
 Note any Equipment Washing: Decon Interface Probe
 Samples Collected/Time: W1-060706; 11 amber 3 GVOAS for NWTPHGX, DX; BTEX, MTBE and ET

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x 10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (liters (gallons))	Pumping Rate (gpm)
1321	6.96	0.966	54	17.9	1.18			
1324	6.93	1.02	47	17.2	1.16		1	0.20
1331	6.90	1.07	43	16.9	0.94		2	
1336	6.89	1.10	38	16.7	0.79		3	
1344	6.89	1.10	33	16.7	0.71		4	

Purge Start Time 1316
 Sample Stop Time 1345

Water Level (amsl) _____

Comments: Free product coming out of purge water as shown in flow through cell. Drawdown noted 0.0 feet (0.00) after first 50 minutes of purging. (= 0 after 20 min)

Signature _____

Date

6-7-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point W-2
 Sample I.D. - W2-040606
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01

Field Crew BAR

Well Depth 10.48 feet below measuring point (MP)
 Depth to Water (below MP) 5.38 feet
 Number of case volumes evacuated before sampling:
 0.65 x linear feet of H2O column =

Casing Diameter 2 1/2 inches

Time:

Sampling/Development Method:

☐ Tap

☐ Submersible

☐ Bailer

☒ Peristaltic Pump

☐ Centrifugal Pump

Pump intake or bailer set at 29 feet below MP

Sample Appearance:

Note any Sampling Problems: clear

Note any Equipment Washing: none

Samples Collected/Time: Decon Interface Probe
W2-040606 for NWTPH62, NWTPH42, BTEX, MTBE, Ethanol.

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x 10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)
0825	6.49	0.756	37	16.5	1.12			
0830	6.50	0.754	35	16.5	1.11			
0835	6.51	0.755	35	16.5	0.93			0.20
0840	6.51	0.755	34	16.5	1.04			

Purge Start Time 0820

Sample Stop Time 0845

Water Level (amsl)

Comments:

Signature

Date

6-6-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point W-3
 Sample I.D. - W3-060606
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth _____ feet below measuring point (MP)
 Depth to Water (below MP) 5.43 feet
 Number of case volumes evacuated before sampling:
 0.65 x linear feet of H₂O column = _____

Casing Diameter 2 inches

Time: _____

Sampling/Development Method:

____ Tap
 ____ Submersible
 ____ Bailer
X Peristaltic Pump

Centrifugal Pump

Pump intake or bailer set at _____ feet below MP

Sample Appearance: Clear

Note any Sampling Problems: none

Note any Equipment Washing: Decon Interface Probe

Samples Collected/Time: W3-060606, @ 1400

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x 10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)
1344	6.77	0.725	4.3	18.0	0.94			
1354	6.77	0.705	2.0	18.0	0.99			
1359	6.74	0.697	1.7	17.9	0.98			50.20

Purge Start Time 1344

Sample Stop Time 1400

Water Level (amsl) _____

Comments: Note sampled after three measurements due to other nearby wells purging dry and observed drawdown in well.

Signature

Date

6-2-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point W4
 Sample I.D. - W4-060606
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth _____ feet below measuring point (MP)
 Depth to Water (below MP) 6.23 feet
 Number of case volumes evacuated before sampling:
 0.65 x linear feet of H2O column = _____

Casing Diameter 2 1/2 inches

Time: _____

Sampling/Development Method:

____ Tap
 ____ Submersible
 ____ Bailer
☒ Peristaltic Pump

____ Centrifugal Pump

Pump intake or bailer set at 19 feet below MP

Sample Appearance: Clear

Note any Sampling Problems: _____

Note any Equipment Washing: none - produced much different (??) nearby HAID

Samples Collected/Time: Decon Interface probe
W4-060606, 6VDA, 11-Ambler - TPL, d, o - BTK, MTR, ET

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x 10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)
1431	6.82	0.795	11	18.9	1.25	✓		
1436	6.76	0.778	9	18.0	0.99	✓		0.25
1440	6.74	0.774	9	17.7	0.71	✓		
1443	6.74	0.776	8	17.6	0.45	✓		↓

Purge Start Time 1427
 Sample Stop Time 1445

Water Level (amsl) _____

Comments:

NEEDS NEW 2" Well Plug

Signature



Date

6-6-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

GROUND WATER LEVEL DATA

Project Name Former Mobil Renton Terminal # 46-080

Date 10/23/06
10/23/07

Field Crew BAR - DJS

Project Number 13042.01

Measuring Device Interface Probe

Well No.	Time	Depth to Product (feet)	Depth to Ground Water (feet)	Product Thickness (feet)	Reference Elevation (feet)	Ground Water Elevation (feet)	Physical Observations/Comments
B1	1154	NIP	7.86	NA	18.62		
B2	1150	NIP	8.15	NA	18.60	10.76	TD: 9.29'
B3	1202	8.14	9.05	0.91	18.73	10.45	TD: 12.48'
B4	1145	7.56	7.60	0.04	18.09	10.34	TD: N/A @ $0.91 \times 0.73 = 0.665 \rightarrow 18.73 - 9.05 + 0.66 =$
B5	1140	NIP	7.24	NA	17.97	10.52	TD: N/A @ $0.04 \times 0.73 = 0.029 \rightarrow 18.09 - 7.60 + 0.03 =$
B6	1205	NIP	7.34	NA	17.94	10.73	TD: 11.98
D4	1156	NIP	5.82	NA	17.82	10.60	TD: 11.77
D5	1204	NIP	DRY	NA	18.12	DRY	TD: 5.93 (DRY - 0.11' H2O in 0.75' ± cap)
D6	0826	NIP	6.95	NA	17.74	DRY	No H2O ENCOUNTERED IN WELL
D7	0829	NIP	7.04	NA	17.69	10.79	TD: 10.02 1.27' H2O PRESENT
HA1	1207	NIP	5.97	NA	19.50	10.65	TD: 10.06 0.59' H2O PRESENT
HA2	0815	NIP	7.84	NA	18.17	13.53	TD: 10.21
HA3	0818	NIP	9.66	NA	21.03	10.33	TD: 8.47
HA4	0820	NIP	9.00	NA	20.24	11.37	TD: 10.18 0.52' H2O PRESENT
HA5	1210	NIP	7.54	NA	18.07	11.24	TD: 10.19 1.19' H2O PRESENT
HA6	1216	NIP	7.72	NA	18.16	10.53	TD: 9.79 2.25' H2O PRESENT
Signature						10.44	TD: 9.80' @ LPH density = 0.73 per

ACTON • MICKELSON • ENVIRONMENTAL, INC.

GROUND WATER LEVEL DATA

Project Name Former Mobil Renton Terminal # 46-080

Date 10/23/06 Field Crew BAR - DJS

Project Number 13042.01

Measuring Device Interface Probe

Well No.	Time	Depth to Product (feet)	Depth to Ground Water (feet)	Product Thickness (feet)	Reference Elevation (feet)	Ground Water Elevation (feet)	Physical Observations/Comments
HA7	1222	NIP	7.86	N/A	18.44	10.58	
HA8	1219	8.24	8.26	0.02	18.88	12.63	TD: 9.83' ~ 1.97' H2O present
HA9	0803	NIP	8.32	N/A	19.40	11.08	TD: 9.30 (1) 0.73 x 0.02 = 0.0146 18.88 - 8.26 =
HA10	0810	NIP	9.09	N/A	19.33	10.24	TD: 9.79
HA11	0813	NIP	8.60	N/A	18.51	9.91	TD: 9.80
HA12	1226	NIP	8.71	N/A	19.91	11.20	TD: 9.80
HA13	1229	NP	9.45	N/A	19.56	10.11	TD: 11.58
HA14	1232	NP	10.18	N/A	20.02	9.84	TD: 11.54
W1	1158	NP	8.22	N/A	18.86	10.64	TD: 10.85
W2	1200	NP	7.63	N/A	18.28	10.65	TD: 8.69
W3	0805	NP	6.22	N/A	17.10	10.88	TD: 10.38
W4	1100	NP	7.67	N/A	18.03	10.36	TD: 7.68
							TD Not Measured
							Notes: NP = Not Present, NA = Not Applicable
							(2) 0.17 gallons per linear foot in 2" well
							(3) 0.66 gallons per linear foot in 4" well.

Signature [Signature]

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point W-1
 Sample I.D. = W-1-102806
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 8.69 feet below measuring point (MP)
 Depth to Water (below MP) 8.22 feet
 Number of case volumes evacuated before sampling:
 0.65 x linear feet of H₂O column =

Casing Diameter 2 inches
 Time:

Sampling/Development Method:

☐ Tap ☐ Bailer
☐ Submersible ☒ Peristaltic Pump

Pump intake or bailer set at 28.5 feet below MP ☐ Centrifugal Pump

Sample Appearance: clear
 Note any Sampling Problems: none
 Note any Equipment Washing: decon DTW meter
 Samples Collected/Time:

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm @ 25°C)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons) DTW	Pumping Rate (gpm) LPM
1217	6.72	1.00	6 ①	17.3	0.1		8.22	0.33
1220	6.62	0.94	3	17.5	Ø		8.22	↓
1223	6.63	0.94	4	17.8	Ø		8.24	↓

Purge Start Time 1214
 Sample Stop Time 1225

Water Level (amsl) 10.64

Comments: ① Initial purge had a little black sand, skewing NTU to > 10.

Signature



Date

10-23-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point W-2

Sample I.D.

Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal

Project No. 13042.01

Field Crew BAR

Well Depth 10.38 feet below measuring point (MP)

Depth to Water (below MP) 7.63 feet

Number of case volumes evacuated before sampling:
0.65 x linear feet of H2O column =

Casing Diameter 4.2 inches

Time:

Sampling/Development Method:

☐ Tap

☐ Submersible

☐ Bailer

☒ Peristaltic Pump

☐ Centrifugal Pump

Pump intake or bailer set at 9 1/2 feet below MP

Sample Appearance: clear

Note any Sampling Problems: none

Note any Equipment Washing: Decon OTW meter

Samples Collected/Time: PRIMARY 3 DUPLICATE

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x 10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (‰) ORP	Cumulative Volume of Water Removed from Well (gallons) DTW	Pumping Rate (gpm)
1233	6.54	0.810	6	19.2	0.1		8.63	
1236	6.52	1.16	3	19.4	0		8.63	0.33
1239	6.55	1.13	5	19.5	0		8.63	
1242	6.55	1.10	1	19.6	0		8.63	

Purge Start Time 1229

Sample Stop Time 1245

Water Level (amsl) 10.65

Comments: Duplicate DUPE-1-102304 collected

Signature

Date

10-18-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point W-3
 Sample I.D. - W-3-102406
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 7.68 feet below measuring point (MP)
 Depth to Water (below MP) 6.27 feet
 Number of case volumes evacuated before sampling:
 0.65 x linear feet of H₂O column =

Casing Diameter 2.4 inches

Time:

Sampling/Development Method:

☐ Tap ☐ Bailer
☐ Submersible ☒ Peristaltic Pump ☐ Centrifugal Pump

Pump intake or bailer set at ~7 feet below MP

Sample Appearance: clear

Note any Sampling Problems: none

Note any Equipment Washing: Decon flow thru-cell, meters, and dtw gauge

Samples Collected/Time: PRIMARY AND DUPLICATE

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm) LPM
1026	6.74	0.724	45	16.3	0.1		DTW	LPM
1030	6.77	0.699	31	16.5	0		6.27	0.25
1034	6.77	0.621	22	16.7	0		6.27	↓
1038	6.76	0.582	16	16.9	0.1		6.29	↓
1040	6.75	0.560	9	17.1	0		6.29	↓

Purge Start Time 1022
 Sample Stop Time 1040

Water Level (amsl) 10.88

Comments: ADD LOCK DUPLICATE - DUPE-2-102406 collected
Shoen precipitating persolving out of purgates in flow thru cell.

conductivity not stabilizing, suspect LPH flooded sensor from shoen.

Signature

Date



10-24-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point W-4
 Sample I.D. = W-4-102406

Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01

Field Crew BAR

Well Depth NM feet below measuring point (MP)
 Depth to Water (below MP) 7.67 feet
 Number of case volumes evacuated before sampling:
 0.65 x linear feet of H₂O column =

Casing Diameter 4 2 inches

Time:

Sampling/Development Method:

☐ Tap

☐ Submersible

☐ Bailer

☒ Peristaltic Pump

☐ Centrifugal Pump

Pump intake or bailer set at ~8 feet below MP

Sample Appearance: clear

Note any Sampling Problems: none

Note any Equipment Washing: Decon DTW meter, flow thru cell & GW meters

Samples Collected/Time: 2 1 LAMBERS, GWAIS

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm $\times 10^3$)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons) DTW	Pumping Rate (gpm) LPM
1102	6.68	0.781	16	17.8	0.4		7.67	0.25
1106	6.69	0.786	14	18.0	0		7.67	
1110	6.71	0.805	13	18.2	0		7.67	
1114	6.73	0.817	15	18.4	0		7.67	

Purge Start Time 1058

Sample Stop Time 1115

Water Level (amsl) 10.36

Comments: AOR LOCK shown precipitating out in flow thru-cell, (Dramatic) like bubbles coming to the surface

Signature

Date

10-24-66

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point B-1
 Sample I.D. - B-1-102406
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 9.29 feet below measuring point (MP)
 Depth to Water (below MP) 7.86 feet
 Number of case volumes evacuated before sampling:
 0.65 x linear feet of H₂O column =

Casing Diameter 2 inches

Time: _____

Sampling/Development Method:

☐ Tap ☐ Bailer
☐ Submersible ☐ Peristaltic Pump ☐ Centrifugal Pump

Pump intake or bailer set at ~9 feet below MP

Sample Appearance: CLEAR

Note any Sampling Problems: NONE

Note any Equipment Washing: DECON DTW METER

Samples Collected/Time: 2 1 LAMBERS, 6 VOA'S

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well Liters (gallons) / DTW	Pumping Rate (gpm)
	6.89	0.683	16	18.0	0.44			
	6.78	0.701	10	18.1	0.49		7.90	6.20
	6.78	0.702	9	18.1	0.54		7.91	↓
	6.80	0.698	10	18.2	0.47		7.91	↓
							7.92	↓

Purge Start Time _____
 Sample Stop Time 1415

Water Level (amsl) _____

Comments:

Signature

Date

10-24-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point B-2
 Sample I.D. - B-2-102304
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01

Field Crew BAR

Well Depth 12.98 feet below measuring point (MP)
 Depth to Water (below MP) 8.16 feet
 Number of case volumes evacuated before sampling:
 0.65 x linear feet of H2O column =

Casing Diameter 4.2 inches

Time: _____

Sampling/Development Method:

☐ Tap ☐ Bailer
☐ Submersible ☒ Peristaltic Pump ☐ Centrifugal Pump

Pump intake or bailer set at ~10 1/2 feet below MP

Sample Appearance: clear
 Note any Sampling Problems: none
 Note any Equipment Washing: Decon Dtw meter
 Samples Collected/Time: 21 L AMBERS, 6 VOLS

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x 10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons) DTW	Pumping Rate (gpm)
1519	6.68	0.132132	12	18.1	0.1		8.16	0.35
1522	6.72	0.908	9	18.1	0		8.29	
1525	6.73	0.91	7	18.2	0		8.36	

Purge Start Time 1516
 Sample Stop Time 1530

Water Level (amsl) 10.35

Comments:

Signature

ADD LOCK

Date

10-23-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point B3
 Sample I.D. - NONE COLLECTED
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth _____ feet below measuring point (MP)
 Depth to Water (below MP) 8.14/9.05 feet (FP/60)
 Number of case volumes evacuated before sampling: _____ Time: _____
 0.65 x linear feet of H₂O column = _____

Sampling/Development Method:

____ Tap _____ Bailer
 _____ Submersible _____ Peristaltic Pump _____ Centrifugal Pump

Pump intake or bailer set at _____ feet below MP

Sample Appearance:

Note any Sampling Problems: FREE PRODUCT PRESENT (~0.91 feet)

Note any Equipment Washing: DECON OTW meter

Samples Collected/Time: _____

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)

Purge Start Time _____
 Sample Stop Time _____

Water Level (amsl) _____

Comments: 0.91 feet of free product encountered, no sample collected

Signature



Date

10-23-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point B-4

Sample I.D. _____

Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal

Project No. 13042.01

Field Crew BAR

Well Depth _____ feet below measuring point (MP)

Depth to Water (below MP) 7.56 / 7.60 feet (FP/GW)

Casing Diameter 24 inches

Number of case volumes evacuated before sampling:

Time: _____

0.65 x linear feet of H₂O column =

Sampling/Development Method:

_____ Tap

_____ Bailer

_____ Submersible

_____ Peristaltic Pump

_____ Centrifugal Pump

Pump intake or bailer set at _____ feet below MP

Sample Appearance: _____

Note any Sampling Problems: 0.04 feet of free product encountered.

Note any Equipment Washing: DECON DTW METER

Samples Collected/Time: _____

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x 10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)

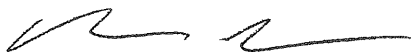
Purge Start Time _____

Sample Stop Time _____

Water Level (amsl) 10.52

Comments: FREE PRODUCT PRESENT, NO SAMPLE COLLECTED

Signature



Date

10-23-00

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point B-5
 Sample I.D. - B-5-102306
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01

Field Crew BAR

Well Depth 11.98 feet below measuring point (MP)
 Depth to Water (below MP) 7.24 feet
 Number of case volumes evacuated before sampling:
 0.65 x linear feet of H2O column =

Casing Diameter 2 inches

Time:

Sampling/Development Method:

☐ Tap ☐ Bailer
☐ Submersible ☒ Peristaltic Pump ☐ Centrifugal Pump

Pump intake or bailer set at ~10 feet below MP

Sample Appearance: clear

Note any Sampling Problems: none

Note any Equipment Washing: Decon DTW meter

Samples Collected/Time: @1600: 2 IL AMBERS, 4 VOA'S

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons) DTW	Pumping Rate (gpm)
1548	6.51	0.462	4	18.9	0.1		7.24	0.25
1549	6.41	0.450	4	19.1	0.1		7.33	
1553	6.39	0.445	3	19.2	0		7.37	↓

Purge Start Time 1541
 Sample Stop Time 1600

Water Level (amsl) 10.73

Comments:

Signature

Date

10-23-06

SAMPLING/DEVELOPMENT INFORMATION

Field Crew BAR

Time: _____

Centrifugal Pump

Sample Appearance: CLEAN
 Note any Sampling Problems: DRAWDOWN
 Note any Equipment Washing: DECON DTW meter
 Samples Collected/Time: _____

EVACUATION/STABILIZATION TEST DATA

Water Level (amsl) 10.00

ADD LOCK

10-23-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point D-4
 Sample I.D. - NO SAMPLE
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR - PSS

Well Depth ~6 feet below measuring point (MP)
 Depth to Water (below MP) 5.82 feet
 Number of case volumes evacuated before sampling:
 0.65 x linear feet of H₂O column =

Casing Diameter 2 inches

Time: _____

Sampling/Development Method:

☐ Tap ☐ Bailer
☐ Submersible ☐ Peristaltic Pump ☐ Centrifugal Pump

Pump intake or bailer set at _____ feet below MP

Sample Appearance: NONE COLLECTED

Note any Sampling Problems: DRY WELL

Note any Equipment Washing: DECON OTW METER

Samples Collected/Time: —

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)

Purge Start Time _____
 Sample Stop Time _____

Water Level (amsl) _____

Comments: DRY WELL - ~ 0.11' (TD = 5.83 - DTW = 5.82) of water in
end cap of well.

Signature



Date

10-23-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point DS
 Sample I.D.
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth feet below measuring point (MP)
 Depth to Water (below MP) NO H2O feet
 Number of case volumes evacuated before sampling:
 0.65 x linear feet of H2O column =

Casing Diameter 2 inches

Time:

Sampling/Development Method:

 Tap Bailer
 Submersible Peristaltic Pump Centrifugal Pump

Pump intake or bailer set at feet below MP

Sample Appearance:

Note any Sampling Problems: SEE COMMENTS

Note any Equipment Washing: DECON DTW METER

Samples Collected/Time:

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)

Purge Start Time
 Sample Stop Time

Water Level (amsl)

Comments: DRY WELL, NO H2O ENCOUNTERED. ~ 0.1 silt residue on tip of DTW meter probe

Signature

Date 10-23-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point D-6
 Sample I.D. - D-6-102306
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 10.42 feet below measuring point (MP)
 Depth to Water (below MP) 6.95 feet
 Number of case volumes evacuated before sampling:
 0.65 x linear feet of H2O column =

Casing Diameter 4.2 inches

Time: _____

Sampling/Development Method:

____ Tap _____ Bailer
 _____ Submersible XX Peristaltic Pump _____ Centrifugal Pump

Pump intake or bailer set at 4.9 feet below MP

Sample Appearance: clear
 Note any Sampling Problems: _____
 Note any Equipment Washing: Dedicated equipment - NA
 Samples Collected/Time: _____

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x10)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons) DTW	Pumping Rate (gpm)
1327	6.40	0.402	31	20.4	0.2		6.95	0.20
1332	6.42	0.433	30	20.4	0.2		7.02	
1337	6.45	0.460	28	20.6	0.1		7.11	

Purge Start Time 1322
 Sample Stop Time 1340

Water Level (amsl) 11.29

Comments:

ADD LOCK
 Signature _____

Date

10-23-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point D-7
 Sample I.D. - D-7-102406 D-7-102406
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 70.06 feet below measuring point (MP)
 Depth to Water (below MP) 7.04 feet
 Number of case volumes evacuated before sampling:
 0.65 x linear feet of H2O column =

Casing Diameter 4 2 inches

Time: _____

Sampling/Development Method:

____ Tap _____ Bailer
 _____ Submersible ☒ Peristaltic Pump _____ Centrifugal Pump

Pump intake or bailer set at TD feet below MP

Sample Appearance: clear to slightly TURBID
 Note any Sampling Problems: SEE COMMENTS
 Note any Equipment Washing: DECON DTW meter
 Samples Collected/Time: @ 1140 on 10/24/06

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons) (DTW)	Pumping Rate (gpm)
1423	6.09	0.123	132	19.8	0.2		7.69	0.20
1428	6.09	0.139	68	19.6	0.1		8.22	
1433	6.10	0.147	33	19.8	0.0		9.25	↓
1438	6.10	0.161					9.86	↓

Purge Start Time 1418
 Sample Stop Time 1440 * Sample @ 1140 on 10/24/06

Water Level (amsl) _____

Comments: Drawing down @ 0.25, to ~0.120 LPM, Initial purge extremely turbid - dk brown.

SAMPLE COLLECTED UPON PURGING WELL DRY on 10/24/06 @ 1140
ADD LOCK AFTER

Signature [Signature]

Date 24 10-23-06 purge
10-24-06 10-24-06 single

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point HA-1
 Sample I.D. - HA-1-102406
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 5.97 feet below measuring point (MP)
 Depth to Water (below MP) 10.21 feet

Casing Diameter 12 inches

Number of case volumes evacuated before sampling: _____ Time: _____
 0.65 x linear feet of H₂O column = 4.24 x 0.17 = 0.72 gallons

Sampling/Development Method:

☐ Tap ☐ Bailer
☐ Submersible ☒ Peristaltic Pump ☐ Centrifugal Pump

Pump intake or bailer set at 10 feet below MP (to TO)

Sample Appearance: Slightly Turbid

Note any Sampling Problems: Purge dry, got 1 set of measurements, sample next day.

Note any Equipment Washing: Accon DTW meter

Samples Collected/Time: @ 0830 on 10/24/06

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x 10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons) DTW	Pumping Rate (gpm) LPM
	<u>6.79</u>	<u>0.127</u>	<u>28</u>	<u>15.0</u>	<u>2.3</u>		<u>12.899</u>	<u>0.20</u>
	<u>6.76</u>	<u>0.131</u>	<u>79</u>	<u>15.0</u>	<u>2.2</u>		<u>10.06</u>	

Purge Start Time _____
 Sample Stop Time 0830 on 10/24/06

Water Level (amsl) _____

Comments: Anticipated purging dry; purged for readings on 10-23-06
sampled 10/24/06.

Signature

Date

10-24-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point HA-2

Sample I.D. - HA-2-102406

Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal

Project No. 13042.01

Field Crew BAR - DJS

Well Depth 8.47 feet below measuring point (MP)

Depth to Water (below MP) 7.84 feet

Casing Diameter 2 inches

Number of case volumes evacuated before sampling:

$0.65 \times \text{linear feet of H}_2\text{O column} = 0.63 \times 0.17 =$

Time: _____

Sampling/Development Method:

☐ Tap

☐ Bailer

☐ Submersible

☒ Peristaltic Pump

☐ Centrifugal Pump

Pump intake or bailer set at TD feet below MP

Sample Appearance: Slightly turbid w/ small particulate (plant matter/leaves)

Note any Sampling Problems: water production - see comments

Note any Equipment Washing: Decon DTW meter

Samples Collected/Time: @ 0945 on 10/24/06

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x 10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)

Purge Start Time _____

Sample Stop Time 0945 (10/24/06)

Water Level (amsl) 10.33

Comments: VBA's collected insufficient H₂O to collect TPHD (ILA) sample. Insufficient water to collect ground water quality data. Sampled following day - after allowing recharges. Well purged dry on 10/23/06.

Signature [Signature]

Date 10-23/24

10-23/24-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point HA-3
 Sample I.D. - _____
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 9.66 feet below measuring point (MP)
 Depth to Water (below MP) 10.18 feet

Casing Diameter 4.2 inches

Number of case volumes evacuated before sampling: _____

Time: _____

0.65 x linear feet of H₂O column = 0.52 x 0.172 = 0.09 gallons available.

Sampling/Development Method:

_____ Tap

_____ Bailer

_____ Submersible

X ✓ Peristaltic Pump

_____ Centrifugal Pump

Pump intake or bailer set at ~10.5 feet below MP

Sample Appearance: N/A

Note any Sampling Problems: SEE COMMENTS

Note any Equipment Washing: DECON DTW meter

Samples Collected/Time: NONE

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x 10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)

Purge Start Time _____
 Sample Stop Time _____

Water Level (amsl) 11.37

Comments: DRY - Purged dry on 10/23/06. Water did not return to static conditions on 10/24/06 (DTW = 9.21').

Signature



Date

10-23-06
10-24-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point HA-4

Sample I.D. -

Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal

Project No. 13042.01

Field Crew BAR

Well Depth 10.19 feet below measuring point (MP)

Depth to Water (below MP) 9.00 feet

Casing Diameter 4.2 inches

Number of case volumes evacuated before sampling:

0.65 x linear feet of H₂O column = 1.19 x 0.17 = 0.20 gallons available

Time:

Sampling/Development Method:

☐ Tap

☐ Bailer

☐ Submersible

☒ Peristaltic Pump

☐ Centrifugal Pump

Pump intake or bailer set at ~10.1 feet below MP

Sample Appearance: slightly turbid w/ trace particulate plant matter.

Note any Sampling Problems: see comments

Note any Equipment Washing: Decon Detergent

Samples Collected/Time: @ 1000 on 10/24/06

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)

Purge Start Time 10/23/06 - Purge Dry

Sample Stop Time 1000

Water Level (amsl) 11.24

Comments: Purged dry on 10/23/06. Collect 6 VOA's and ~500 ml for pH & DO on 10/24/06 @ ~1000. Note - insufficient water available to collect ground water quality measurements

Signature



Date

10-23-06
10-24-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point HA-5
 Sample I.D. - HA-5-102406
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 9.79 feet below measuring point (MP) Casing Diameter 2 inches
 Depth to Water (below MP) 7.54 feet
 Number of case volumes evacuated before sampling: Time:
 0.65 x linear feet of H₂O column = 2.25 x 0.17 = 0.38 gallons available

Sampling/Development Method:
☐ Tap ☐ Bailer
☐ Submersible ☒ Peristaltic Pump ☐ Centrifugal Pump

Pump intake or bailer set at 7.7 feet below MP

Sample Appearance: initially clear to moderately turbid by 12 Amber
 Note any Sampling Problems: drawdown
 Note any Equipment Washing: Decon DTW meter
 Samples Collected/Time: 2 1 L AMBERS, 2 VOA'S

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x 10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)

Purge Start Time see notes
 Sample Stop Time 1230

Water Level (amsl) 10.53

Comments: Insufficient water to run flow thru cell and collect groundwater parameters.
Purge dry on 10/23/06. Sample on 10-24-06 @ 1230

Signature

Date

10-24-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point HA-6
 Sample I.D. - HA-6-102466
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 9.80 feet below measuring point (MP)
 Depth to Water (below MP) 7.72 feet
 Number of case volumes evacuated before sampling:

Casing Diameter 2 inches

0.65 x linear feet of H2O column = 2.08 x 0.17 = 0.35 gallons available

Sampling/Development Method:

☐ Tap ☐ Bailer
☐ Submersible ☒ Peristaltic Pump ☐ Centrifugal Pump

Pump intake or bailer set at _____ feet below MP

Sample Appearance: clear to slightly turbid

Note any Sampling Problems: drawdown - see comments

Note any Equipment Washing: Decon DTW meter

Samples Collected/Time: _____

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x 10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)

Purge Start Time _____
 Sample Stop Time 1315

Water Level (amsl) 10.44

Comments: Insufficient H2O available to fill flow thru-cell prior to
pump down. Purge and allow recharge. - Purge 10-27-06,
Sample 10-24-06

Signature



Date

10-24-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point HA7
 Sample I.D. - HA-7-102406
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 9.83 feet below measuring point (MP)
 Depth to Water (below MP) 7.86 feet

Casing Diameter 12 inches

Number of case volumes evacuated before sampling:

Time:

0.65 x linear feet of H₂O column = 1.97 x 0.17 = 0.33 gallons

Sampling/Development Method:

☐ Tap

☐ Bailer

☐ Submersible

☒ Peristaltic Pump

☐ Centrifugal Pump

Pump intake or bailer set at ~9.75 feet below MP

Sample Appearance: Slightly turbid by after finally VOA's

Note any Sampling Problems: BROWN

Note any Equipment Washing: Decon Interface probe

Samples Collected/Time: 2 L canisters, 6 VOA's @ ~1245

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x 10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)

Purge Start Time See notes
 Sample Stop Time 1245

Water Level (amsl) 16.58

Comments: Insufficient water to collect groundwater parameters ~1 L for flow thru, pump tubing etc). Purge well dry on 10-23-06. Sample 10-24-06.

Signature

Date

10-24-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point HAB
 Sample I.D. - No sample - free product
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 9.80 feet below measuring point (MP)
 Depth to Water (below MP) 8.27 feet
 Number of case volumes evacuated before sampling:
 0.65 x linear feet of H2O column =

Casing Diameter 4 2 inches

Time: _____

Sampling/Development Method: NA

☐ Tap ☐ Bailer
☐ Submersible ☐ Peristaltic Pump ☐ Centrifugal Pump

Pump intake or bailer set at _____ feet below MP

Sample Appearance: Not Sampled

Note any Sampling Problems: Free Product (~ 0.02 feet, clear smelt of gasoline).

Note any Equipment Washing: Decon Interface probe,

Samples Collected/Time: NA

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)

Purge Start Time _____
 Sample Stop Time _____

Water Level (amsl) 10.63

Comments: Not sampled due to presence of free product.

Signature



Date

10-24-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point HA-9

Sample I.D. -

Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal

Project No. 13042.01

Field Crew BAR

Well Depth 8.32 ^{9.79} feet below measuring point (MP)

Depth to Water (below MP) 8.32 feet

Casing Diameter 2 inches

Number of case volumes evacuated before sampling:

~~0.65 x linear feet of H₂O column~~

1.47 x 0.17 = 0.2499 gallons available.

Time:

Sampling/Development Method:

☐ Tap

☐ Bailer

☐ Submersible

☐ Peristaltic Pump

☐ Centrifugal Pump

Pump intake or bailer set at _____ feet below MP

Sample Appearance: Slightly turbid - increasing so from initial affecting TPA

Note any Sampling Problems: See comments

Note any Equipment Washing: Decon DTM meter

Samples Collected/Time: TPA, BTEX, MTBE, ET, GWTPHx on 10/24/06 @ 0930

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)

Purge Start Time

Sample Stop Time 0930 10/24/06

Water Level (amsl) 11.08

Comments:

Purged well dry on 10/23/06. Water too turbid and contains plant fragments. Collect 6 vials & 3/4 of a 1 Liter Amber for TPA on 10/24/06.

Signature



Date

10-23-06
10-24-06

SAMPLING/DEVELOPMENT INFORMATION

EVACUATION/STABILIZATION TEST DATA								
Time	pH (units)	Temperature Corrected Conductance (mS/cm x10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)
Purge Start Time <u>0915</u>					Water Level (amsl) <u>10.24</u>			
Sample Stop Time <u>0915</u>								
Comments: <u>ORGANIC matter (rusty) in sample.</u>								
<u>5 VOAS collected for NWTPHQ, BTEX, PCBs (MTH&ET)</u>								
Signature <u>[Signature]</u>					Date <u>10-24-06</u>			

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point HA-11
 Sample I.D. - HA-11-102906
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 9.91 feet below measuring point (MP)
 Depth to Water (below MP) 8.60 feet

Casing Diameter 1 1/2 inches

Number of case volumes evacuated before sampling:

Time:

0.65 x linear feet of H2O column = 1.31 x 9.17 = 0.22 gallons

Sampling/Development Method:

☐ Tap

☐ Bailer

☐ Submersible

☒ Peristaltic Pump

☐ Centrifugal Pump

Pump intake or bailer set at 29.9 feet below MP

Sample Appearance: started clear, then progressively more organic particulates noted.

Note any Sampling Problems: Purged well dry on 10/23/06

Note any Equipment Washing: Decon DTW meter

Samples Collected/Time: 500 ml for TMD, 4 VOA's for 82603

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x 10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)

Purge Start Time _____
 Sample Stop Time 0900

Water Level (amsl) 9.91

Comments: Purged well dry on 10/23/06 - hope to recharge by 10/24/06.
Collect 4 VOA's and ~500 ml. aliquot for nNTPHAP, on 10/24/06.
note: insufficient purgate to fill 1L cup long enough to collect measurements.

Signature

Date

10-23/24-06
10-23/24

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point HA-13
 Sample I.D. = HA-13-10
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 11.54 feet below measuring point (MP)
 Depth to Water (below MP) 9.45 feet

Casing Diameter 2 inches

Number of case volumes evacuated before sampling:

0.65 x linear feet of H₂O column = 2.09 x 0.17 = 0.35 gallons

Time:

Sampling/Development Method:

☐ Tap

☐ Bailer

☐ Submersible

☒ Peristaltic Pump

☐ Centrifugal Pump

Pump intake or bailer set at feet below MP

Sample Appearance: CLEAR TO SLIGHTLY TURBED BY END

Note any Sampling Problems: NO COMMENTS

Note any Equipment Washing: DECON DTW METER

Samples Collected/Time: COLLECTED and approximately 3/4 of a 1L Amber for TP40

EVACUATION/STABILIZATION TEST DATA

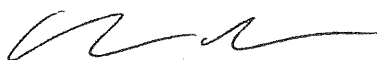
Time	pH (units)	Temperature Corrected Conductance (mS/cm x 10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)

Purge Start Time (10/23/06)
 Sample Stop Time 1220 (10/24/06)

Water Level (amsl) 9.11

Comments: Purged well dry on 10/23/06. Insufficient water to fill flow through cell long enough to collect ground water quality measurements.

Signature



Date

10-23-06
10-24-06

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SAMPLING/DEVELOPMENT INFORMATION

Sampling/Development Point HA-14
 Sample I.D. - HA-14-102406
 Describe Sampling/Development Point Monitoring Well

Project Name Former Mobil Renton Terminal
 Project No. 13042.01
 Field Crew BAR

Well Depth 10.85 feet below measuring point (MP)
 Depth to Water (below MP) 10.18 feet

Casing Diameter 2 inches

Number of case volumes evacuated before sampling: Time:
 $0.65 \times \text{linear feet of H}_2\text{O column} = 0.67 \times 0.17 = \sim 0.11 \text{ gallons}$

Sampling/Development Method:

☐ Tap ☐ Bailer
☐ Submersible ☒ Peristaltic Pump ☐ Centrifugal Pump

Pump intake or bailer set at _____ feet below MP

Sample Appearance: clear to progressively slightly turbid.

Note any Sampling Problems: see comments

Note any Equipment Washing: Decon DTW meter

Samples Collected/Time: 6 VOA's, see comments. - Limited H₂O available.

EVACUATION/STABILIZATION TEST DATA

Time	pH (units)	Temperature Corrected Conductance (mS/cm x 10 ³)	Turbidity (NTU)	Temperature (°C)	D.O. mg/L	Salinity (%)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)

Purge Start Time _____
 Sample Stop Time 1210

Water Level (amsl) 9.84

Comments: Purged dry on 10/23/06, Sample on 10/24/06. Insufficient H₂O to collect 1L amber aliquot.

Signature



Date

10-23-06
10-24-06

APPENDIX C

Laboratory Analytical Reports

September 07, 2006

Client: Acton Mickelson Environmental, Inc. (13785)
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
Attn: Jennifer Guthmiller

Work Order: NPF1179
Project Name: (06) Former Renton Terminal #46-080
Project Nbr: 13041.01
P/O Nbr: 4507265171
Date Received: 06/08/06

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
B5-060606	NPF1179-01	06/06/06 07:35
B6-060606	NPF1179-02	06/06/06 08:05
W2-060606	NPF1179-03	06/06/06 08:45
B1-060606	NPF1179-04	06/06/06 09:30
HA10-060606	NPF1179-05	06/06/06 13:00
HA2-060606	NPF1179-06	06/06/06 11:00
HA9-060606	NPF1179-07	06/06/06 13:45
W3-060606	NPF1179-08	06/06/06 14:00
TB-1-060606	NPF1179-09	06/06/06 07:30

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately at 615-726-0177.

Additional Laboratory Comments:

Per enclosed Chain of Custody, "samples were properly preserved and received in good condition on 6/08/06. Analyses were extracted and performed within method required holding times following Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846)". Please note the Data Qualifiers and Definitions section at the end of the Summary Report for outlying QC for this work order. Initial and Continuing Calibration requirements were met. Package was completed as a "Level IV".

Organics: Unknown analyte concentrations were determined using the average response factor from the initial calibration curve for all analytes whose % RSD is less than or equal to 15. All other analyte concentrations were determined using linear regression analysis. Copies of curves for compounds with %RSD's greater than 15 are supplied.

As you review this data package, please call me if you require any additional information at # 1-800-765-0980 ext 1256.

Oregon Certification Number: TN200001

The Chain(s) of Custody, 3 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By:

Client Acton Mickelson Environmental, Inc. (13785)
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
Attn Jennifer Guthmiller

Work Order: NPF1179
Project Name: (06) Former Renton Terminal #46-080
Project Number: 13041.01
Received: 06/08/06 07:50



Glenn Lee Norton

Data Package Coordinator

Client Acton Mickelson Environmental, Inc. (13785)
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
Attn Jennifer Guthmiller

Work Order: NPF1179
Project Name: (06) Former Renton Terminal #46-080
Project Number: 13041.01
Received: 06/08/06 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPF1179-01RE1 (B5-060606 - Ground Water) Sampled: 06/06/06 07:35									
Selected Volatile Organic Compounds by EPA Method 8260B									
Benzene	944		ug/L	2.90	10.0	10	06/20/06 11:52	SW846 8260B	6064148
Ethylbenzene	214		ug/L	3.40	10.0	10	06/20/06 11:52	SW846 8260B	6064148
Methyl tert-Butyl Ether	ND		ug/L	0.320	1.00	1	06/18/06 09:38	SW846 8260B	6063036
Toluene	14.4		ug/L	0.280	1.00	1	06/18/06 09:38	SW846 8260B	6063036
Xylenes, total	507		ug/L	8.20	20.0	10	06/20/06 11:52	SW846 8260B	6064148
Ethanol	ND		ug/L	45.1	100	1	06/18/06 09:38	SW846 8260B	6063036
Surr: 1,2-Dichloroethane-d4 (70-130%)	103 %					1	06/18/06 09:38	SW846 8260B	6063036
Surr: 1,2-Dichloroethane-d4 (70-130%)	97 %					1	06/20/06 11:52	SW846 8260B	6064148
Surr: Dibromofluoromethane (79-122%)	102 %					1	06/18/06 09:38	SW846 8260B	6063036
Surr: Dibromofluoromethane (79-122%)	111 %					1	06/20/06 11:52	SW846 8260B	6064148
Surr: Toluene-d8 (78-121%)	105 %					1	06/18/06 09:38	SW846 8260B	6063036
Surr: Toluene-d8 (78-121%)	109 %					1	06/20/06 11:52	SW846 8260B	6064148
Surr: 4-Bromofluorobenzene (78-126%)	105 %					1	06/18/06 09:38	SW846 8260B	6063036
Surr: 4-Bromofluorobenzene (78-126%)	104 %					1	06/20/06 11:52	SW846 8260B	6064148
Extractable Petroleum Hydrocarbons									
Diesel	2860	QSG	ug/L	35.7	93.9	1	06/18/06 20:02	NWTPH-Dx	6061897
Motor Oil	271	QSG	ug/L	35.7	93.9	1	06/18/06 20:02	NWTPH-Dx	6061897
Surr: o-Terphenyl (51-142%)	79 %					1	06/18/06 20:02	NWTPH-Dx	6061897
Purgeable Petroleum Hydrocarbons									
GRO as Gasoline	4540		ug/L	40.0	100	1	06/20/06 14:22	NWTPH-Gx	6063491
Surr: a,a,a-Trifluorotoluene (63-134%)	183 %	ZX				1	06/20/06 14:22	NWTPH-Gx	6063491

Sample ID: NPF1179-02RE1 (B6-060606 - Ground Water) Sampled: 06/06/06 08:05

Selected Volatile Organic Compounds by EPA Method 8260B

Benzene	2540		ug/L	29.0	100	100	06/20/06 12:41	SW846 8260B	6064148
Ethylbenzene	664		ug/L	3.40	10.0	10	06/20/06 12:16	SW846 8260B	6064148
Methyl tert-Butyl Ether	ND		ug/L	0.320	1.00	1	06/18/06 10:03	SW846 8260B	6063036
Toluene	4560		ug/L	28.0	100	100	06/20/06 12:41	SW846 8260B	6064148
Xylenes, total	4590		ug/L	8.20	20.0	10	06/20/06 12:16	SW846 8260B	6064148
Ethanol	ND		ug/L	45.1	100	1	06/18/06 10:03	SW846 8260B	6063036
Surr: 1,2-Dichloroethane-d4 (70-130%)	105 %					1	06/18/06 10:03	SW846 8260B	6063036
Surr: 1,2-Dichloroethane-d4 (70-130%)	94 %					1	06/20/06 12:16	SW846 8260B	6064148
Surr: Dibromofluoromethane (79-122%)	102 %					1	06/18/06 10:03	SW846 8260B	6063036
Surr: Dibromofluoromethane (79-122%)	106 %					1	06/20/06 12:16	SW846 8260B	6064148
Surr: Toluene-d8 (78-121%)	104 %					1	06/18/06 10:03	SW846 8260B	6063036
Surr: Toluene-d8 (78-121%)	107 %					1	06/20/06 12:16	SW846 8260B	6064148
Surr: 4-Bromofluorobenzene (78-126%)	106 %					1	06/18/06 10:03	SW846 8260B	6063036
Surr: 4-Bromofluorobenzene (78-126%)	100 %					1	06/20/06 12:16	SW846 8260B	6064148
Extractable Petroleum Hydrocarbons									
Diesel	5420	QSG	ug/L	178	469	5	06/19/06 08:40	NWTPH-Dx	6061897

Client Acton Mickelson Environmental, Inc. (13785)
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
Attn Jennifer Guthmiller

Work Order: NPF1179
Project Name: (06) Former Renton Terminal #46-080
Project Number: 13041.01
Received: 06/08/06 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPF1179-02RE1 (B6-060606 - Ground Water) - cont. Sampled: 06/06/06 08:05									
Extractable Petroleum Hydrocarbons - cont.									
Motor Oil	528	QSG	ug/L	178	469	5	06/19/06 08:40	NWTPH-Dx	6061897
Surr: o-Terphenyl (51-142%)	64 %					5	06/19/06 08:40	NWTPH-Dx	6061897
Purgeable Petroleum Hydrocarbons									
GRO as Gasoline	33500	H2	ug/L	800	2000	20	06/21/06 13:50	NWTPH-Gx	6064052
Surr: a,a,a-Trifluorotoluene (63-134%)	98 %					1	06/21/06 13:50	NWTPH-Gx	6064052
Sample ID: NPF1179-03RE1 (W2-060606 - Ground Water) Sampled: 06/06/06 08:45									
Selected Volatile Organic Compounds by EPA Method 8260B									
Benzene	6640		ug/L	14.5	50.0	50	06/20/06 13:05	SW846 8260B	6064148
Ethylbenzene	464		ug/L	17.0	50.0	50	06/20/06 13:05	SW846 8260B	6064148
Methyl tert-Butyl Ether	15.6		ug/L	0.320	1.00	1	06/18/06 10:29	SW846 8260B	6063036
Toluene	1660		ug/L	14.0	50.0	50	06/20/06 13:05	SW846 8260B	6064148
Xylenes, total	4760		ug/L	41.0	100	50	06/20/06 13:05	SW846 8260B	6064148
Ethanol	ND		ug/L	45.1	100	1	06/18/06 10:29	SW846 8260B	6063036
Surr: 1,2-Dichloroethane-d4 (70-130%)	99 %					1	06/18/06 10:29	SW846 8260B	6063036
Surr: 1,2-Dichloroethane-d4 (70-130%)	96 %					1	06/20/06 13:05	SW846 8260B	6064148
Surr: Dibromofluoromethane (79-122%)	92 %					1	06/18/06 10:29	SW846 8260B	6063036
Surr: Dibromofluoromethane (79-122%)	107 %					1	06/20/06 13:05	SW846 8260B	6064148
Surr: Toluene-d8 (78-121%)	104 %					1	06/18/06 10:29	SW846 8260B	6063036
Surr: Toluene-d8 (78-121%)	104 %					1	06/20/06 13:05	SW846 8260B	6064148
Surr: 4-Bromofluorobenzene (78-126%)	105 %					1	06/18/06 10:29	SW846 8260B	6063036
Surr: 4-Bromofluorobenzene (78-126%)	100 %					1	06/20/06 13:05	SW846 8260B	6064148
Extractable Petroleum Hydrocarbons									
Diesel	5880	QSG	ug/L	178	469	5	06/19/06 08:56	NWTPH-Dx	6061897
Motor Oil	283	J, QSG	ug/L	178	469	5	06/19/06 08:56	NWTPH-Dx	6061897
Surr: o-Terphenyl (51-142%)	68 %					5	06/19/06 08:56	NWTPH-Dx	6061897
Purgeable Petroleum Hydrocarbons									
GRO as Gasoline	34400	H2	ug/L	800	2000	20	06/21/06 14:58	NWTPH-Gx	6064052
Surr: a,a,a-Trifluorotoluene (63-134%)	85 %					1	06/21/06 14:58	NWTPH-Gx	6064052
Sample ID: NPF1179-04 (B1-060606 - Ground Water) Sampled: 06/06/06 09:30									
Selected Volatile Organic Compounds by EPA Method 8260B									
Benzene	602		ug/L	2.90	10.0	10	06/20/06 13:54	SW846 8260B	6064148
Ethylbenzene	137		ug/L	0.340	1.00	1	06/20/06 13:30	SW846 8260B	6064148
Methyl tert-Butyl Ether	ND		ug/L	0.320	1.00	1	06/20/06 13:30	SW846 8260B	6064148
Toluene	5.87		ug/L	0.280	1.00	1	06/20/06 13:30	SW846 8260B	6064148
Xylenes, total	43.9		ug/L	0.820	2.00	1	06/20/06 13:30	SW846 8260B	6064148
Ethanol	ND		ug/L	45.1	100	1	06/20/06 13:30	SW846 8260B	6064148
Surr: 1,2-Dichloroethane-d4 (70-130%)	92 %					1	06/20/06 13:30	SW846 8260B	6064148
Surr: Dibromofluoromethane (79-122%)	103 %					1	06/20/06 13:30	SW846 8260B	6064148
Surr: Toluene-d8 (78-121%)	103 %					1	06/20/06 13:30	SW846 8260B	6064148

Client Acton Mickelson Environmental, Inc. (13785)
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
Attn Jennifer Guthmiller

Work Order: NPF1179
Project Name: (06) Former Renton Terminal #46-080
Project Number: 13041.01
Received: 06/08/06 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPF1179-04 (B1-060606 - Ground Water) - cont. Sampled: 06/06/06 09:30									
Selected Volatile Organic Compounds by EPA Method 8260B - cont.									
Surr: 4-Bromofluorobenzene (78-126%)	99 %					1	06/20/06 13:30	SW846 8260B	6064148
Extractable Petroleum Hydrocarbons									
Diesel	1570	QSG	ug/L	35.7	93.9	1	06/18/06 21:07	NWTPH-Dx	6061897
Motor Oil	553	QSG	ug/L	35.7	93.9	1	06/18/06 21:07	NWTPH-Dx	6061897
Surr: o-Terphenyl (51-142%)	80 %					1	06/18/06 21:07	NWTPH-Dx	6061897
Purgeable Petroleum Hydrocarbons									
GRO as Gasoline	3330		ug/L	40.0	100	1	06/20/06 16:04	NWTPH-Gx	6063491
Surr: a,a,a-Trifluorotoluene (63-134%)	182 %	ZX				1	06/20/06 16:04	NWTPH-Gx	6063491
Sample ID: NPF1179-05 (HA10-060606 - Ground Water) Sampled: 06/06/06 13:00									
Selected Volatile Organic Compounds by EPA Method 8260B									
Benzene	52.6		ug/L	2.90	10.0	10	06/20/06 14:19	SW846 8260B	6064148
Ethylbenzene	63.7		ug/L	3.40	10.0	10	06/20/06 14:19	SW846 8260B	6064148
Methyl tert-Butyl Ether	ND		ug/L	3.20	10.0	10	06/20/06 14:19	SW846 8260B	6064148
Toluene	5.50	J	ug/L	2.80	10.0	10	06/20/06 14:19	SW846 8260B	6064148
Xylenes, total	19.1	J	ug/L	8.20	20.0	10	06/20/06 14:19	SW846 8260B	6064148
Ethanol	ND		ug/L	451	1000	10	06/20/06 14:19	SW846 8260B	6064148
Surr: 1,2-Dichloroethane-d4 (70-130%)	94 %					1	06/20/06 14:19	SW846 8260B	6064148
Surr: Dibromofluoromethane (79-122%)	107 %					1	06/20/06 14:19	SW846 8260B	6064148
Surr: Toluene-d8 (78-121%)	107 %					1	06/20/06 14:19	SW846 8260B	6064148
Surr: 4-Bromofluorobenzene (78-126%)	102 %					1	06/20/06 14:19	SW846 8260B	6064148
Purgeable Petroleum Hydrocarbons									
GRO as Gasoline	852		ug/L	40.0	100	1	06/20/06 16:38	NWTPH-Gx	6063491
Surr: a,a,a-Trifluorotoluene (63-134%)	77 %					1	06/20/06 16:38	NWTPH-Gx	6063491
Sample ID: NPF1179-06RE1 (HA2-060606 - Ground Water) Sampled: 06/06/06 11:00									
Selected Volatile Organic Compounds by EPA Method 8260B									
Benzene	7710		ug/L	14.5	50.0	50	06/20/06 15:08	SW846 8260B	6064148
Ethylbenzene	874		ug/L	17.0	50.0	50	06/20/06 15:08	SW846 8260B	6064148
Methyl tert-Butyl Ether	ND		ug/L	0.320	1.00	1	06/18/06 11:45	SW846 8260B	6063036
Toluene	5560		ug/L	14.0	50.0	50	06/20/06 15:08	SW846 8260B	6064148
Xylenes, total	10200		ug/L	41.0	100	50	06/20/06 15:08	SW846 8260B	6064148
Ethanol	ND		ug/L	45.1	100	1	06/18/06 11:45	SW846 8260B	6063036
Surr: 1,2-Dichloroethane-d4 (70-130%)	114 %					1	06/18/06 11:45	SW846 8260B	6063036
Surr: 1,2-Dichloroethane-d4 (70-130%)	92 %					1	06/20/06 15:08	SW846 8260B	6064148
Surr: Dibromofluoromethane (79-122%)	94 %					1	06/18/06 11:45	SW846 8260B	6063036
Surr: Dibromofluoromethane (79-122%)	106 %					1	06/20/06 15:08	SW846 8260B	6064148
Surr: Toluene-d8 (78-121%)	103 %					1	06/18/06 11:45	SW846 8260B	6063036
Surr: Toluene-d8 (78-121%)	106 %					1	06/20/06 15:08	SW846 8260B	6064148
Surr: 4-Bromofluorobenzene (78-126%)	111 %					1	06/18/06 11:45	SW846 8260B	6063036

Client Acton Mickelson Environmental, Inc. (13785)
5175 Hillsdale Circle, Suite 100
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Attn Jennifer Guthmiller

Work Order: NPF1179
Project Name: (06) Former Renton Terminal #46-080
Project Number: 13041.01
Received: 06/08/06 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPF1179-06RE1 (HA2-060606 - Ground Water) - cont. Sampled: 06/06/06 11:00									
Selected Volatile Organic Compounds by EPA Method 8260B - cont.									
Surr: 4-Bromofluorobenzene (78-126%)	99 %					1	06/20/06 15:08	SW846 8260B	6064148
Extractable Petroleum Hydrocarbons									
Diesel	9720	QSG	ug/L	178	469	5	06/19/06 09:12	NWTPH-Dx	6061897
Motor Oil	313	QSG, J	ug/L	178	469	5	06/19/06 09:12	NWTPH-Dx	6061897
Surr: o-Terphenyl (51-142%)	51 %					5	06/19/06 09:12	NWTPH-Dx	6061897
Purgeable Petroleum Hydrocarbons									
GRO as Gasoline	60200	H2	ug/L	2000	5000	50	06/21/06 14:24	NWTPH-Gx	6064052
Surr: a,a,a-Trifluorotoluene (63-134%)	87 %					1	06/21/06 14:24	NWTPH-Gx	6064052
Sample ID: NPF1179-07 (HA9-060606 - Ground Water) Sampled: 06/06/06 13:45									
Selected Volatile Organic Compounds by EPA Method 8260B									
Benzene	177		ug/L	0.290	1.00	1	06/20/06 15:32	SW846 8260B	6064148
Ethylbenzene	435		ug/L	3.40	10.0	10	06/20/06 15:57	SW846 8260B	6064148
Methyl tert-Butyl Ether	ND		ug/L	0.320	1.00	1	06/20/06 15:32	SW846 8260B	6064148
o-Xylene	3.58		ug/L	0.280	1.00	1	06/20/06 15:32	SW846 8260B	6064148
Xylenes, total	420		ug/L	0.820	2.00	1	06/20/06 15:32	SW846 8260B	6064148
Ethanol	ND		ug/L	45.1	100	1	06/20/06 15:32	SW846 8260B	6064148
Surr: 1,2-Dichloroethane-d4 (70-130%)	93 %					1	06/20/06 15:32	SW846 8260B	6064148
Surr: Dibromofluoromethane (79-122%)	106 %					1	06/20/06 15:32	SW846 8260B	6064148
Surr: Toluene-d8 (78-121%)	104 %					1	06/20/06 15:32	SW846 8260B	6064148
Surr: 4-Bromofluorobenzene (78-126%)	102 %					1	06/20/06 15:32	SW846 8260B	6064148
Extractable Petroleum Hydrocarbons									
Diesel	3220	QSG	ug/L	35.7	93.9	1	06/18/06 21:40	NWTPH-Dx	6061897
Motor Oil	337	QSG	ug/L	35.7	93.9	1	06/18/06 21:40	NWTPH-Dx	6061897
Surr: o-Terphenyl (51-142%)	56 %					1	06/18/06 21:40	NWTPH-Dx	6061897
Purgeable Petroleum Hydrocarbons									
GRO as Gasoline	3750		ug/L	40.0	100	1	06/20/06 17:46	NWTPH-Gx	6063491
Surr: a,a,a-Trifluorotoluene (63-134%)	320 %	ZX				1	06/20/06 17:46	NWTPH-Gx	6063491
Sample ID: NPF1179-08RE1 (W3-060606 - Ground Water) Sampled: 06/06/06 14:00									
Selected Volatile Organic Compounds by EPA Method 8260B									
Benzene	1880		ug/L	5.80	20.0	20	06/20/06 16:21	SW846 8260B	6064148
Ethylbenzene	640		ug/L	6.80	20.0	20	06/20/06 16:21	SW846 8260B	6064148
Methyl tert-Butyl Ether	ND		ug/L	0.320	1.00	1	06/18/06 12:36	SW846 8260B	6063036
Toluene	25.1		ug/L	0.280	1.00	1	06/18/06 12:36	SW846 8260B	6063036
Xylenes, total	821		ug/L	16.4	40.0	20	06/20/06 16:21	SW846 8260B	6064148
Ethanol	ND		ug/L	45.1	100	1	06/18/06 12:36	SW846 8260B	6063036
Surr: 1,2-Dichloroethane-d4 (70-130%)	103 %					1	06/18/06 12:36	SW846 8260B	6063036
Surr: 1,2-Dichloroethane-d4 (70-130%)	95 %					1	06/20/06 16:21	SW846 8260B	6064148
Surr: Dibromofluoromethane (79-122%)	103 %					1	06/18/06 12:36	SW846 8260B	6063036

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 Attn Jennifer Guthmiller

Work Order: NPF1179
 Project Name: (06) Former Renton Terminal #46-080
 Project Number: 13041.01
 Received: 06/08/06 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPF1179-08RE1 (W3-060606 - Ground Water) - cont. Sampled: 06/06/06 14:00									
Selected Volatile Organic Compounds by EPA Method 8260B - cont.									
Surr: Dibromofluoromethane (79-122%)	106 %					1	06/20/06 16:21	SW846 8260B	6064148
Surr: Toluene-d8 (78-121%)	103 %					1	06/18/06 12:36	SW846 8260B	6063036
Surr: Toluene-d8 (78-121%)	109 %					1	06/20/06 16:21	SW846 8260B	6064148
Surr: 4-Bromofluorobenzene (78-126%)	105 %					1	06/18/06 12:36	SW846 8260B	6063036
Surr: 4-Bromofluorobenzene (78-126%)	101 %					1	06/20/06 16:21	SW846 8260B	6064148
Extractable Petroleum Hydrocarbons									
Diesel	3090	QSG	ug/L	35.7	93.9	1	06/18/06 21:56	NWTPH-Dx	6061897
Motor Oil	153	QSG	ug/L	35.7	93.9	1	06/18/06 21:56	NWTPH-Dx	6061897
Surr: o-Terphenyl (51-142%)	85 %					1	06/18/06 21:56	NWTPH-Dx	6061897
Purgeable Petroleum Hydrocarbons									
GRO as Gasoline	13400	H2	ug/L	800	2000	20	06/21/06 15:32	NWTPH-Gx	6064052
Surr: a,a,a-Trifluorotoluene (63-134%)	109 %					1	06/21/06 15:32	NWTPH-Gx	6064052
Sample ID: NPF1179-09 (TB-1-060606 - Ground Water) Sampled: 06/06/06 07:30									
Selected Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND		ug/L	0.290	1.00	1	06/20/06 16:45	SW846 8260B	6064148
Ethylbenzene	ND		ug/L	0.340	1.00	1	06/20/06 16:45	SW846 8260B	6064148
Methyl tert-Butyl Ether	ND		ug/L	0.320	1.00	1	06/20/06 16:45	SW846 8260B	6064148
Toluene	ND		ug/L	0.280	1.00	1	06/20/06 16:45	SW846 8260B	6064148
Xylenes, total	ND		ug/L	0.820	2.00	1	06/20/06 16:45	SW846 8260B	6064148
Ethanol	ND		ug/L	45.1	100	1	06/20/06 16:45	SW846 8260B	6064148
Surr: 1,2-Dichloroethane-d4 (70-130%)	96 %					1	06/20/06 16:45	SW846 8260B	6064148
Surr: Dibromofluoromethane (79-122%)	104 %					1	06/20/06 16:45	SW846 8260B	6064148
Surr: Toluene-d8 (78-121%)	107 %					1	06/20/06 16:45	SW846 8260B	6064148
Surr: 4-Bromofluorobenzene (78-126%)	103 %					1	06/20/06 16:45	SW846 8260B	6064148
Purgeable Petroleum Hydrocarbons									
GRO as Gasoline	ND		ug/L	40.0	100	1	06/20/06 13:48	NWTPH-Gx	6063491
Surr: a,a,a-Trifluorotoluene (63-134%)	86 %					1	06/20/06 13:48	NWTPH-Gx	6063491

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Work Order: NPF1179
Project Name: (06) Former Renton Terminal #46-080
Project Number: 13041.01
Received: 06/08/06 07:50

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Extractable Petroleum Hydrocarbons							
NWTPH-Dx	6061897	NPF1179-01	1065.00	1.00	06/09/06 20:44	AEB	EPA 3510C
NWTPH-Dx	6061897	NPF1179-02	1065.00	1.00	06/09/06 20:44	AEB	EPA 3510C
NWTPH-Dx	6061897	NPF1179-02RE1	1065.00	1.00	06/09/06 20:44	AEB	EPA 3510C
NWTPH-Dx	6061897	NPF1179-03	1065.00	1.00	06/09/06 20:44	AEB	EPA 3510C
NWTPH-Dx	6061897	NPF1179-03RE1	1065.00	1.00	06/09/06 20:44	AEB	EPA 3510C
NWTPH-Dx	6061897	NPF1179-04	1065.00	1.00	06/09/06 20:44	AEB	EPA 3510C
NWTPH-Dx	6061897	NPF1179-06	1065.00	1.00	06/09/06 20:44	AEB	EPA 3510C
NWTPH-Dx	6061897	NPF1179-06RE1	1065.00	1.00	06/09/06 20:44	AEB	EPA 3510C
NWTPH-Dx	6061897	NPF1179-07	1065.00	1.00	06/09/06 20:44	AEB	EPA 3510C
NWTPH-Dx	6061897	NPF1179-08	1065.00	1.00	06/09/06 20:44	AEB	EPA 3510C

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Work Order: NPF1179
 Project Name: (06) Former Renton Terminal #46-080
 Project Number: 13041.01
 Received: 06/08/06 07:50

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
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Selected Volatile Organic Compounds by EPA Method 8260B

6063036-BLK1

Benzene	<0.290		ug/L	6063036	6063036-BLK1	06/18/06 08:47
Ethylbenzene	<0.340		ug/L	6063036	6063036-BLK1	06/18/06 08:47
Methyl tert-Butyl Ether	<0.320		ug/L	6063036	6063036-BLK1	06/18/06 08:47
Toluene	<0.280		ug/L	6063036	6063036-BLK1	06/18/06 08:47
Xylenes, total	<0.820		ug/L	6063036	6063036-BLK1	06/18/06 08:47
Ethanol	<45.1		ug/L	6063036	6063036-BLK1	06/18/06 08:47
Surrogate: 1,2-Dichloroethane-d4	106%			6063036	6063036-BLK1	06/18/06 08:47
Surrogate: 1,2-Dichloroethane-d4	106%			6063036	6063036-BLK1	06/18/06 08:47
Surrogate: Dibromofluoromethane	104%			6063036	6063036-BLK1	06/18/06 08:47
Surrogate: Dibromofluoromethane	104%			6063036	6063036-BLK1	06/18/06 08:47
Surrogate: Toluene-d8	104%			6063036	6063036-BLK1	06/18/06 08:47
Surrogate: Toluene-d8	104%			6063036	6063036-BLK1	06/18/06 08:47
Surrogate: 4-Bromofluorobenzene	110%			6063036	6063036-BLK1	06/18/06 08:47
Surrogate: 4-Bromofluorobenzene	110%			6063036	6063036-BLK1	06/18/06 08:47

6064148-BLK1

Benzene	<0.290		ug/L	6064148	6064148-BLK1	06/20/06 10:55
Ethylbenzene	<0.340		ug/L	6064148	6064148-BLK1	06/20/06 10:55
Methyl tert-Butyl Ether	<0.320		ug/L	6064148	6064148-BLK1	06/20/06 10:55
Toluene	<0.280		ug/L	6064148	6064148-BLK1	06/20/06 10:55
Xylenes, total	<0.820		ug/L	6064148	6064148-BLK1	06/20/06 10:55
Ethanol	<45.1		ug/L	6064148	6064148-BLK1	06/20/06 10:55
Surrogate: 1,2-Dichloroethane-d4	91%			6064148	6064148-BLK1	06/20/06 10:55
Surrogate: 1,2-Dichloroethane-d4	91%			6064148	6064148-BLK1	06/20/06 10:55
Surrogate: Dibromofluoromethane	106%			6064148	6064148-BLK1	06/20/06 10:55
Surrogate: Dibromofluoromethane	106%			6064148	6064148-BLK1	06/20/06 10:55
Surrogate: Toluene-d8	109%			6064148	6064148-BLK1	06/20/06 10:55
Surrogate: Toluene-d8	109%			6064148	6064148-BLK1	06/20/06 10:55
Surrogate: 4-Bromofluorobenzene	97%			6064148	6064148-BLK1	06/20/06 10:55
Surrogate: 4-Bromofluorobenzene	97%			6064148	6064148-BLK1	06/20/06 10:55

Extractable Petroleum Hydrocarbons

6061897-BLK1

Diesel	<38.0		ug/L	6061897	6061897-BLK1	06/18/06 19:29
Motor Oil	69.0	J	ug/L	6061897	6061897-BLK1	06/18/06 19:29
Surrogate: o-Terphenyl	64%			6061897	6061897-BLK1	06/18/06 19:29

Purgeable Petroleum Hydrocarbons

6063491-BLK1

Gasoline	<40.0		ug/L	6063491	6063491-BLK1	06/20/06 13:14
Surrogate: a,a,a-Trifluorotoluene	84%			6063491	6063491-BLK1	06/20/06 13:14

Client Acton Mickelson Environmental, Inc. (13785)
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
Attn Jennifer Guthmiller

Work Order: NPF1179
Project Name: (06) Former Renton Terminal #46-080
Project Number: 13041.01
Received: 06/08/06 07:50

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Purgeable Petroleum Hydrocarbons						
6064052-BLK1						
GRO as Gasoline	<40.0		ug/L	6064052	6064052-BLK1	06/21/06 04:31
Surrogate: <i>a,a,a</i> -Trifluorotoluene	85%			6064052	6064052-BLK1	06/21/06 04:31

Client Acton Mickelson Environmental, Inc. (13785)
 5175 Hillsdale Circle, Suite 100
 El Dorado Hills, CA 95762
 Attn Jennifer Guthmiller

Work Order: NPF1179
 Project Name: (06) Former Renton Terminal #46-080
 Project Number: 13041.01
 Received: 06/08/06 07:50

PROJECT QUALITY CONTROL DATA

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B								
6063036-BS1								
Benzene	50.0	54.1		ug/L	108%	78 - 122	6063036	06/18/06 07:31
Ethylbenzene	50.0	52.5		ug/L	105%	82 - 122	6063036	06/18/06 07:31
Methyl tert-Butyl Ether	50.0	53.8		ug/L	108%	65 - 144	6063036	06/18/06 07:31
Toluene	50.0	54.6		ug/L	109%	80 - 120	6063036	06/18/06 07:31
Xylenes, total	150	151		ug/L	101%	81 - 125	6063036	06/18/06 07:31
Ethanol	5000	6130		ug/L	123%	33 - 160	6063036	06/18/06 07:31
Surrogate: 1,2-Dichloroethane-d4	50.0	51.9			104%	70 - 130	6063036	06/18/06 07:31
Surrogate: 1,2-Dichloroethane-d4	50.0	51.9			104%	70 - 130	6063036	06/18/06 07:31
Surrogate: Dibromofluoromethane	50.0	53.1			106%	79 - 122	6063036	06/18/06 07:31
Surrogate: Dibromofluoromethane	50.0	53.1			106%	79 - 122	6063036	06/18/06 07:31
Surrogate: Toluene-d8	50.0	52.3			105%	78 - 121	6063036	06/18/06 07:31
Surrogate: Toluene-d8	50.0	52.3			105%	78 - 121	6063036	06/18/06 07:31
Surrogate: 4-Bromofluorobenzene	50.0	53.3			107%	78 - 126	6063036	06/18/06 07:31
Surrogate: 4-Bromofluorobenzene	50.0	53.3			107%	78 - 126	6063036	06/18/06 07:31
6064148-BS1								
Benzene	50.0	54.0		ug/L	108%	78 - 122	6064148	06/20/06 09:42
Ethylbenzene	50.0	49.1		ug/L	98%	82 - 122	6064148	06/20/06 09:42
Methyl tert-Butyl Ether	50.0	51.3		ug/L	103%	65 - 144	6064148	06/20/06 09:42
Toluene	50.0	51.8		ug/L	104%	80 - 120	6064148	06/20/06 09:42
Xylenes, total	150	148		ug/L	99%	81 - 125	6064148	06/20/06 09:42
Ethanol	5000	6310		ug/L	126%	33 - 160	6064148	06/20/06 09:42
Surrogate: 1,2-Dichloroethane-d4	50.0	48.4			97%	70 - 130	6064148	06/20/06 09:42
Surrogate: 1,2-Dichloroethane-d4	50.0	48.4			97%	70 - 130	6064148	06/20/06 09:42
Surrogate: Dibromofluoromethane	50.0	50.7			101%	79 - 122	6064148	06/20/06 09:42
Surrogate: Dibromofluoromethane	50.0	50.7			101%	79 - 122	6064148	06/20/06 09:42
Surrogate: Toluene-d8	50.0	54.2			108%	78 - 121	6064148	06/20/06 09:42
Surrogate: Toluene-d8	50.0	54.2			108%	78 - 121	6064148	06/20/06 09:42
Surrogate: 4-Bromofluorobenzene	50.0	49.0			98%	78 - 126	6064148	06/20/06 09:42
Surrogate: 4-Bromofluorobenzene	50.0	49.0			98%	78 - 126	6064148	06/20/06 09:42
Extractable Petroleum Hydrocarbons								
6061897-BS1								
Diesel	1000	874		ug/L	87%	56 - 116	6061897	06/18/06 19:45
Surrogate: o-Terphenyl	20.0	15.1			76%	51 - 142	6061897	06/18/06 19:45
Purgeable Petroleum Hydrocarbons								
6063491-BS1								
GRO as Gasoline	1000	979		ug/L	98%	66 - 132	6063491	06/20/06 18:54
Surrogate: a,a,a-Trifluorotoluene	30.0	24.2			81%	63 - 134	6063491	06/20/06 18:54

6064052-BS1

Client Acton Mickelson Environmental, Inc. (13785)
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
Attn Jennifer Guthmiller

Work Order: NPF1179
Project Name: (06) Former Renton Terminal #46-080
Project Number: 13041.01
Received: 06/08/06 07:50

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Purgeable Petroleum Hydrocarbons								
6064052-BS1								
GRO as Gasoline	1000	1040	MNR1	ug/L	104%	66 - 132	6064052	06/21/06 12:33
Surrogate: <i>a,a,a</i> -Trifluorotoluene	30.0	27.3			91%	63 - 134	6064052	06/21/06 12:33

Client Acton Mickelson Environmental, Inc. (13785)
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
Attn Jennifer Guthmiller

Work Order: NPF1179
Project Name: (06) Former Renton Terminal #46-080
Project Number: 13041.01
Received: 06/08/06 07:50

PROJECT QUALITY CONTROL DATA
LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Purgeable Petroleum Hydrocarbons												
6063491-BSD1												
GRO as Gasoline		880		ug/L	1000	88%	66 - 132	11	36	6063491		06/20/06 19:28
Surrogate: <i>a,a,a</i> -Trifluorotoluene		24.4		ug/L	30.0	81%	63 - 134			6063491		06/20/06 19:28

ent Acton Mickelson Environmental, Inc. (13785)
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
n Jennifer Guthmiller

Work Order: NPF1179
Project Name: (06) Former Renton Terminal #46-080
Project Number: 13041.01
Received: 06/08/06 07:50

PROJECT QUALITY CONTROL DATA
Matrix Spike

Sample	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Detected Volatile Organic Compounds by EPA Method 8260B										
6063036-MS1										
Benzene	1.00E9	1.00E9	MHA	ug/L	50.0	0%	74 - 133	6063036	NPF1179-01	06/18/06 16:49
Toluene	1.00E9	1.00E9	MHA	ug/L	50.0	0%	74 - 134	6063036	NPF1179-01	06/18/06 16:49
Diethyl tert-Butyl Ether		52.3		ug/L	50.0	105%	58 - 151	6063036	NPF1179-01	06/18/06 16:49
Xylenes	14.4	60.7		ug/L	50.0	93%	73 - 133	6063036	NPF1179-01	06/18/06 16:49
Xylenes, total	531	526	MHA	ug/L	150	-3%	68 - 139	6063036	NPF1179-01	06/18/06 16:49
Ethanol		4670		ug/L	5000	93%	28 - 166	6063036	NPF1179-01	06/18/06 16:49
surrogate: 1,2-Dichloroethane-d4		51.1		ug/L	50.0	102%	70 - 130	6063036	NPF1179-01	06/18/06 16:49
surrogate: 1,2-Dichloroethane-d4		51.1		ug/L	50.0	102%	70 - 130	6063036	NPF1179-01	06/18/06 16:49
surrogate: Dibromofluoromethane		52.8		ug/L	50.0	106%	79 - 122	6063036	NPF1179-01	06/18/06 16:49
surrogate: Dibromofluoromethane		52.8		ug/L	50.0	106%	79 - 122	6063036	NPF1179-01	06/18/06 16:49
surrogate: Toluene-d8		51.2		ug/L	50.0	102%	78 - 121	6063036	NPF1179-01	06/18/06 16:49
surrogate: Toluene-d8		51.2		ug/L	50.0	102%	78 - 121	6063036	NPF1179-01	06/18/06 16:49
surrogate: 4-Bromofluorobenzene		52.4		ug/L	50.0	105%	78 - 126	6063036	NPF1179-01	06/18/06 16:49
surrogate: 4-Bromofluorobenzene		52.4		ug/L	50.0	105%	78 - 126	6063036	NPF1179-01	06/18/06 16:49

Client Acton Mickelson Environmental, Inc. (13785)
 5175 Hillsdale Circle, Suite 100
 El Dorado Hills, CA 95762
 Attn Jennifer Guthmiller

Work Order: NPF1179
 Project Name: (06) Former Renton Terminal #46-080
 Project Number: 13041.01
 Received: 06/08/06 07:50

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B												
6063036-MSD1												
Benzene	1.00E9	1.00E9	MHA	ug/L	50.0	0%	74 - 133	0	19	6063036	NPF1179-01	06/18/06 17:14
Ethylbenzene	1.00E9	1.00E9	MHA	ug/L	50.0	0%	74 - 134	0	21	6063036	NPF1179-01	06/18/06 17:14
Methyl tert-Butyl Ether		54.7		ug/L	50.0	109%	58 - 151	4	28	6063036	NPF1179-01	06/18/06 17:14
Toluene	14.4	60.5		ug/L	50.0	92%	73 - 133	0.3	20	6063036	NPF1179-01	06/18/06 17:14
Xylenes, total	531	531	MHA	ug/L	150	0%	68 - 139	0.9	23	6063036	NPF1179-01	06/18/06 17:14
Ethanol		3700		ug/L	5000	74%	28 - 166	23	47	6063036	NPF1179-01	06/18/06 17:14
Surrogate: 1,2-Dichloroethane-d4		49.8		ug/L	50.0	100%	70 - 130			6063036	NPF1179-01	06/18/06 17:14
Surrogate: 1,2-Dichloroethane-d4		49.8		ug/L	50.0	100%	70 - 130			6063036	NPF1179-01	06/18/06 17:14
Surrogate: Dibromofluoromethane		53.0		ug/L	50.0	106%	79 - 122			6063036	NPF1179-01	06/18/06 17:14
Surrogate: Dibromofluoromethane		53.0		ug/L	50.0	106%	79 - 122			6063036	NPF1179-01	06/18/06 17:14
Surrogate: Toluene-d8		47.9		ug/L	50.0	96%	78 - 121			6063036	NPF1179-01	06/18/06 17:14
Surrogate: Toluene-d8		47.9		ug/L	50.0	96%	78 - 121			6063036	NPF1179-01	06/18/06 17:14
Surrogate: 4-Bromofluorobenzene		53.4		ug/L	50.0	107%	78 - 126			6063036	NPF1179-01	06/18/06 17:14
Surrogate: 4-Bromofluorobenzene		53.4		ug/L	50.0	107%	78 - 126			6063036	NPF1179-01	06/18/06 17:14

Client Acton Mickelson Environmental, Inc. (13785)
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
Attn Jennifer Guthmiller

Work Order: NPF1179
Project Name: (06) Former Renton Terminal #46-080
Project Number: 13041.01
Received: 06/08/06 07:50

CERTIFICATION SUMMARY

TestAmerica - Nashville, TN

Method	Matrix	AIHA	Nelac	Oregon
NA	Water			
NWTPH-Dx	Water	N/A	X	X
NWTPH-Gx	Water	N/A	X	X
SW846 8260B	Water	N/A	X	X

Client Acton Mickelson Environmental, Inc. (13785)
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
Attn Jennifer Guthmiller

Work Order: NPF1179
Project Name: (06) Former Renton Terminal #46-080
Project Number: 13041.01
Received: 06/08/06 07:50

NELAC CERTIFICATION SUMMARY

TestAmerica Analytical - Nashville does not hold NELAC certifications for the following analytes included in this report

Method

Matrix

Analyte

Client Acton Mickelson Environmental, Inc. (13785)
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
Attn Jennifer Guthmiller

Work Order: NPF1179
Project Name: (06) Former Renton Terminal #46-080
Project Number: 13041.01
Received: 06/08/06 07:50

DATA QUALIFIERS AND DEFINITIONS

H2 Initial analysis within holding time. Reanalysis for the required dilution or confirmation was past holding time.
J Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
MHA Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
MNR1 There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.
QSG Silica Gel clean-up performed on extracts.
ZX Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

METHOD MODIFICATION NOTES

Nashville Division
COOLER RECEIPT FORM

BC#



NPF1179

Cooler Received/Opened On: 6/8/06@7:50

1. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below: 2575

Fed-Ex

Temperature of representative sample or temperature blank when opened: 6.0 Degrees Celsius
(indicate IR Gun ID#)

101282

3. Were custody seals on outside of cooler?..... YES...NO...NA

a. If yes, how many and where: _____

4. Were the seals intact, signed, and dated correctly?..... YES...NO...NA

5. Were custody papers inside cooler?..... YES...NO...NA

I certify that I opened the cooler and answered questions 1-5 (initial).....

6. Were custody seals on containers: YES NO and Intact YES NO NA
were these signed, and dated correctly?..... YES...NO...NA

7. What kind of packing material used? Bubblewrap Peanuts Vermiculite Foam Insert
Plastic bag Paper Other _____ None

8. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

9. Did all containers arrive in good condition (unbroken)?..... YES...NO...NA

10. Were all container labels complete (#, date, signed, pres., etc)?..... YES...NO...NA

11. Did all container labels and tags agree with custody papers?..... YES...NO...NA

12. a. Were VOA vials received?..... YES...NO...NA

b. Was there any observable head space present in any VOA vial?..... YES...NO...NA

I certify that I unloaded the cooler and answered questions 6-12 (initial).....

13. a. On preserved bottles did the pH test strips suggest that preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used?..... YES...NO...NA

If preservation in-house was needed, record standard ID of preservative used here _____

14. Was residual chlorine present?..... YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 13-14 (initial).....

15. Were custody papers properly filled out (ink, signed, etc)?..... YES...NO...NA

16. Did you sign the custody papers in the appropriate place?..... YES...NO...NA

17. Were correct containers used for the analysis requested?..... YES...NO...NA

18. Was sufficient amount of sample sent in each container?..... YES...NO...NA

I certify that I entered this project into LIMS and answered questions 15-18 (initial).....

I certify that I attached a label with the unique LIMS number to each container (initial).....

19. Were there Non-Conformance issues at login YES NO Was a PIPE generated YES NO # _____

BIS = Broken in shipment
Cooler Receipt Form

LF-1
End of Form

Revised 3/9/06

Nashville Division
COOLER RECEIPT FORM

BC#

Cooler Received/Opened On:

6/8/2006

7:50

1. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:

6936

FED-EX

Temperature of representative sample or temperature blank when opened: 5.8 Degrees Celsius
(indicate IR Gun ID#)

101507

3. Were custody seals on outside of cooler?..... YES...NO...NA

a. If yes, how many and where: 1 Front

4. Were the seals intact, signed, and dated correctly?..... YES...NO...NA

5. Were custody papers inside cooler?..... YES...NO...NA

I certify that I opened the cooler and answered questions 1-5 (initial)..... WS

6. Were custody seals on containers: YES NO and Intact YES NO NA
were these signed, and dated correctly?..... YES...NO...NA

7. What kind of packing material used? Bubblewrap Peanuts Vermiculite Foam Insert
Plastic bag Paper Other _____ None

8. Cooling process: Ice Ice-pack Ice (direct contact) Dry Ice Other None

9. Did all containers arrive in good condition (unbroken)?..... YES...NO...NA

10. Were all container labels complete (#, date, signed, pres., etc)?..... YES...NO...NA

11. Did all container labels and tags agree with custody papers?..... YES...NO...NA

12. a. Were VOA vials received?..... YES...NO...NA

b. Was there any observable head space present in any VOA vial?..... YES...NO...NA

I certify that I unloaded the cooler and answered questions 6-12 (initial)..... WS

13. a. On preserved bottles did the pH test strips suggest that preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used..... YES...NO...NA

If preservation in-house was needed, record standard ID of preservative used here _____

14. Was residual chlorine present?..... YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 13-14 (initial).....

15. Were custody papers properly filled out (ink, signed, etc)?..... YES...NO...NA

16. Did you sign the custody papers in the appropriate place?..... YES...NO...NA

17. Were correct containers used for the analysis requested?..... YES...NO...NA

18. Was sufficient amount of sample sent in each container?..... YES...NO...NA

I certify that I entered this project into LIMS and answered questions 15-18 (initial).....

I certify that I attached a label with the unique LIMS number to each container (initial).....

19. Were there Non-Conformance issues at login YES NO Was a PIPE generated YES NO # _____

BIS = Broken in shipment
Cooler Receipt Form

LF-1
End of Form

Revised 3/9/06

Acton • Mil

NPF1179

06/22/06 23:59

Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID

Post 4507265171

☒ Standard TAT☐ RUSH TAT☐ 24 hr. TAT☐ 48 hr. TAT☐ 72 hr. TAT☐ 5 da

Page 1 of 1

Chain of Custody

5352

Send Results to:

5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

(916) 939-7550, FAX (916) 939-7570

Attn: Jennifer Guthmiller

Preliminary Fax Result

Sample Receipt/ Log-In Confirmation

Electronic Data Deliverables

Geotracker EDF

Raw Data Deliverables

Call with Verbal Results

Lab ID (LAB USE ONLY)	Field Point ID	Sample ID	Date Collected	Time Collected	Matrix	Container	Number of Containers	Preservative	Requested Analysis	Comments
	B5	B5-060606	6/4/06	0735	GW	GB	1	HC	X X X X	NPF1179-01
	B6	B6-060606	6/4/06	0805	GW	GB	1	HC	X X X X	
	W2	W2-060606	6/4/06	0845	GW	GB	1	HC	X X X X	
	B1	B1-060606	6/4/06	0930	GW	GB	1	HC	X X X X	
	HA10	HA10-060606	6/4/06	1300	GW	GB	1	HC	X X X X	
	HA2	HA2-060606	6/4/06	1100	GW	GB	1	HC	X X X X	No TPHd submitted
	HA9	HA9-060606	6/4/06	1345	GW	GB	1	HC	X X X X	
	W3	W3-060606	6/4/06	1400	GW	GB	1	HC	X X X X	
	QAQC	TB-1-060606	6/4/06	0730	RW	V	2	HC	X X X	
Relinquished by:		Date	Time	Signature	Relinquished by:	Date	Time			
Received by:		6-4-06	1430		Received by:	6/4/06	7:50			
Relinquished by:		6/6/06	1430		Relinquished by:					
Received by:		6/7/06	15:20		Received by:					

W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water;
Agent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
er: GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube;
ethylene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
itive: C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium

Project Name and Location:

Former Mobil Renton Terminal # 46-080

Project Number:

13042.01

Receiving Lab: 1-1-1

August 07, 2006

Client: Acton Mickelson Environmental, Inc. (13785)
5175 Hillside Circle, Suite 100
El Dorado Hills, CA 95762
Attn: Jennifer Guthmiller

Work Order: NPF1612
Project Name: (06) Former Renton Terminal #46-080
Project Nbr: 13041.01
P/O Nbr: 4507265171
Date Received: 06/13/06

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
TB-2-060606	NPF1612-01	06/06/06 14:45
W4-060606	NPF1612-02	06/06/06 14:45
HA11-060706	NPF1612-03	06/07/06 08:10
HA3-060706	NPF1612-04	06/07/06 08:40
HA12-060706	NPF1612-05	06/07/06 08:00
HA7-060706	NPF1612-06	06/07/06 08:30
HA6-060706	NPF1612-07	06/07/06 09:20
D4-060706	NPF1612-08	06/07/06 09:30
HA14-060706	NPF1612-09	06/07/06 10:30
HA13-060706	NPF1612-10	06/07/06 11:00
HA5-060706	NPF1612-11	06/07/06 11:15
HA10-060706	NPF1612-12	06/07/06 12:05
W1-060706	NPF1612-13	06/07/06 13:45
D6-060706	NPF1612-14	06/07/06 14:30
D7-060706	NPF1612-15	06/07/06 15:05
HA1-060706	NPF1612-16	06/07/06 15:30
DUPE-1-060706	NPF1612-17	06/07/06

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

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