



GROUND WATER MONITORING REPORT

Atlantic Richfield Company
First and Second Quarters of 2004
May 14, 2004

Release 591774
ARCO 6031
Kirkland
VISTA 8796

Solving environment-related business problems worldwide

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ARCO Facility No.: 6031
Address: 11450 NE 124th Street, Kirkland, WA
Atlantic Richfield Company
Environmental Business Manager: Scott Hooton
Consulting Co./Contact Person: Delta Environmental Consultants, Inc./Matt Miller
Consultant Project Number: AM00-511
Primary Agency/Regulatory ID No.: Washington State Department of Ecology/

WORK PERFORMED DURING THE FIRST AND SECOND QUARTERS OF 2004:

- Delta conducted semi-annual ground water monitoring and sampling on March 26, 2004.
- Delta prepared this semi-annual ground water monitoring report.

WORK SCHEDULED FOR THE THIRD AND FOURTH QUARTERS OF 2004:

- Delta will conduct semi-annual ground water monitoring and sampling.
- Delta will prepare a semi-annual ground water monitoring report.

Current Phase of Project:	Monitoring	(Phase I, Addtl Assmnt RAP/CAP, Remed., etc)
Frequency of Ground Water Sampling and Monitoring:	Semi-annual	(Quarterly, etc)
Are LPH Present On-Site:	No	(Yes/No)
LPH Recovered this Reporting Period:	None	(Gallons)
Cumulative LPH Recovered to Date:	None	(Gallons)
Amount of Soil Removed to Date:	2.4 tons (Drill cuttings)	(Cubic yards/tons)
Current Remediation Techniques:	Natural Attenuation	(SVES/Sparge/Pump and Treat)
Approximate Depth to Ground Water:	2.91 to 7.76	(Feet)
Ground Water Gradient:	Northeast	(Direction)
	0.04 ft/linear ft	(Magnitude)

Attachments:

- Table 1 - Summary of Ground Water Data
- Table 2 - Summary of Historical Ground Water Data
- Figure 1 - Site Location Map
- Figure 2 - Inferred Water Table Contour Map - 3/26/04
- North Creek Analytical Lab Report

A member of:





R.5 E.

GENERAL NOTES:
BASE MAP FROM U.S.G.S.
BELLEVUE NORTH, WA.
7.5x15 MINUTE TOPOGRAPHIC
DATED 1982



QUADRANGLE LOCATION



FIGURE 1
SITE LOCATION MAP

ARCO FACILITY NO. 6031
11450 NE 124th STREET
KIRKLAND, WA.

PROJECT NO.
AM00-511
FILE NO.
AM00511A
REVISION NO.
1

DRAWN BY
M.L. 12/5/02
PREPARED BY
DJT
REVIEWED BY



Delta
Environmental
Consultants, Inc.

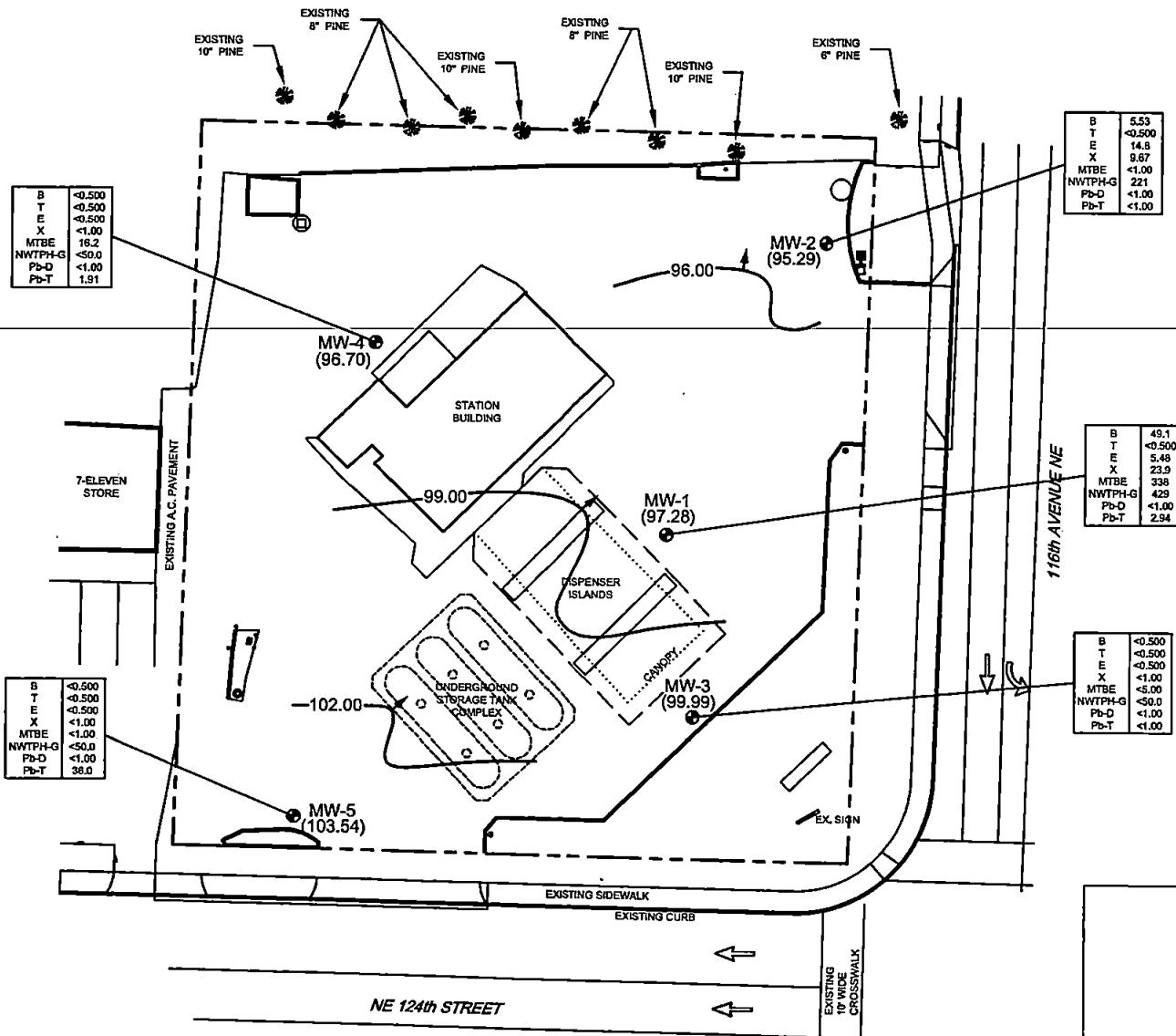


FIGURE 2
INFERRED WATER TABLE CONTOUR MAP
3/26/04

ARCO FACILITY NO. 6031
11450 NE 124th STREET
KIRKLAND, WA.

PROJECT NO. AM00-511	DRAWN BY REG 4/30/04
FILE NO. AR-6031-1Q04	PREPARED BY BAB
REVISION NO. 1	REVIEWED BY



TABLE 1
SUMMARY OF GROUND WATER DATA
ARCO FACILITY NO. 6031
11450 NE 124th STREET
KIRKLAND, WASHINGTON
DELTA PROJECT NO. AM00-511

MONITORING WELL	TOC* (feet)	DATE SAMPLED	DEPTH TO WATER (feet)	GROUND WATER ELEVATION* (feet)	DISSOLVED OXYGEN (mg/L)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYL-BENZENE (ug/L)	XYLENES (ug/L)	METHYL TERT-BUTYL ETHER (ug/L)	GASOLINE-RANGE HYDROCARBONS (ug/L)	TOTAL LEAD (ug/L)	DISSOLVED LEAD (ug/L)
MW-1	102.85	03/26/04 p	5.57	97.28	0.9	49.1	<0.500	5.48	23.9	338	429	2.94	<1.00
MW-2	98.20	03/26/04 p	2.91	95.29	1.3	5.53	<0.500	14.8	9.67	<1.00	221	<1.00	<1.00
MW-3	103.64	03/26/04 p	3.65	99.99	2.1	<0.500	<0.500	<0.500	<1.00	<5.00	<50.0	<1.00	<1.00
MW-4	104.46	03/26/04 p	7.76	96.70	0.4	<0.500	<0.500	<0.500	<1.00	16.2	<50.0	1.91	<1.00
MW-5	108.45	03/26/04 p	4.91	103.54	1.7	<0.500	<0.500	<0.500	<1.00	<1.00	<50.0	36.0	<1.00
Laboratory Analytical Methods:						8021B	8021B	8021B	8021B	8021B/8260B	NWTPH-Gx	6020	6020

8021B = EPA method for volatile aromatic hydrocarbons.

8260B = EPA method for volatile organic compounds. Samples with MTBE detections above the method reporting limit (MRL) or with elevated MRLs that exceed the cleanup level for MTBE using 8021B were re-analyzed using 8260B to confirm the MTBE concentration

8011 = EPA Method for EDB and DBCP.

NWTPH-Gx = Northwest method for gasoline-range hydrocarbons.

6020 = EPA method for lead.

<1.00 = Concentrations were not detected above the stated reporting limit.

TOC = Top of Casing Elevation referenced to an arbitrary vertical datum.

ug/L = Micrograms per liter.

mg/L = Milligrams per liter.

p = purge sampling methods were utilized.

MTBE = Methyl Tert-Butyl Ether.

* - TOC and ground water elevations are relative to a site specific benchmark assigned an elevation of 100.00 feet.

REV.4/27/04.BAB

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TABLE 2
SUMMARY OF HISTORICAL GROUND WATER DATA
ARCO FACILITY NO. 6031
11450 NE 124th STREET
KIRKLAND, WASHINGTON
DELTA PROJECT NO. AM00-511

MONITORING WELL	TOC* (feet)	DATE SAMPLED	DEPTH TO WATER (feet)	GROUND WATER ELEVATION* (feet)	DISSOLVED OXYGEN (mg/L)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYL-BENZENE (ug/L)	XYLENES (ug/L)	METHYL TERT-BUTYL ETHER (ug/L)	1,2-DIBROMO-ETHANE (ug/L)	1,2-DICHLORO-ETHANE (ug/L)	GASOLINE-RANGE HYDROCARBONS (ug/L)	TOTAL LEAD (ug/L)	DISSOLVED LEAD (ug/L)
MW-1	102.85	4/25/03 p	5.23	97.62	0.2	346	<5.00	9.95	151	842	<0.010	<1.00	1280	NA	NA
		08/01/03 p	5.71	97.14	1.0	305	<2.50	8.15	80.0	622	NA	NA	1,090	15.8	<1.00
		10/06/03 p	6.05	96.80	0.4	31.5	<0.500	3.95	29.9	583	<0.010	<20.0	262	9.32	<1.00
		03/26/04 p	5.57	97.28	0.9	49.1	<0.500	5.48	23.9	338	NA	NA	429	2.94	<1.00
MW-2	98.20	4/25/03 p	2.24	95.96	2.8	6.95	<0.500	6.69	28.5	<5.00	<0.010	<1.00	184	NA	NA
		08/01/03 p	4.41	93.79	0.4	802	<10.0	833	1,240	<4.00	NA	NA	10,700	1.99	<1.00
		10/06/03 p	5.43	92.77	0.3	221	<0.500	207	7.44	<5.00	<0.010	<5.00	1,470	2.29	<1.00
		03/26/04 p	2.91	95.29	1.3	5.53	<0.500	14.8	9.67	<1.00	NA	NA	221	<1.00	<1.00
MW-3	103.64	4/25/03 p	3.50	100.14	0.2	0.736	<0.500	<0.500	<1.00	<5.00 (a)	<0.010	<1.00	<50.0	NA	NA
		08/01/03 p	4.69	98.95	0.3	<0.500	<0.500	<0.500	<1.00	10.9	NA	NA	<50.0	47.9	<1.00
		10/06/03 p	4.98	98.66	0.5	<0.500	2.19	<0.500	<1.00	25.6	<0.010	<1.00	<50.0	49.6	<1.00
		03/26/04 p	3.65	99.99	2.1	<0.500	<0.500	<0.500	<1.00	<5.00	NA	NA	<50.0	<1.00	<1.00
MW-4	104.46	4/25/03 p	8.52	95.94	3.5	<0.500	<0.500	<0.500	<1.00	139	<0.010	<1.00	<50.0	NA	NA
		08/01/03 p	8.99	95.47	0.3	<0.500	<0.500	<0.500	<1.00	108	NA	NA	<50.0	1.65	<1.00
		10/06/03 p	9.43	95.03	NM	<0.500	<0.500	<0.500	<1.00	180	<0.010	<5.00	<50.0	2.71	<1.00
		03/26/04 p	7.76	96.70	0.4	<0.500	<0.500	<0.500	<1.00	16.2	NA	NA	<50.0	1.91	<1.00
MW-5	108.45	4/25/03 p	5.13	103.32	0.3	<0.500	<0.500	<0.500	<1.00	<5.00	<0.010	<1.00	<50.0	NA	NA
		08/01/03 p	6.54	101.91	0.3	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	52.0	<1.00
		10/06/03 p	6.87	101.58	0.4	<0.500	0.529	<0.500	<1.00	<1.00	<0.010	<0.200	<50.0	14.0	<1.00
		03/26/04 p	4.91	103.54	1.7	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	36.0	<1.00
Laboratory Analytical Methods:						8021B	8021B	8021B	8021B	8021B/8260B	8011	8260B	NWTPH-Gx	6020	6020

8021B = EPA method for volatile aromatic hydrocarbons.

8260B = EPA method for volatile organic compounds. Samples with MTBE detections above the method reporting limit (MRL) or with elevated MRLs that exceed the cleanup level for MTBE using 8021B were re-analyzed using 8260B to confirm the MTBE concentration.

8011 = EPA Method for EDB and DBCP.

NWTPH-Gx = Northwest method for gasoline-range hydrocarbons.

6020 = EPA method for lead.

<1.00 = Concentrations were not detected above the stated reporting limit.

TOC = Top of Casing Elevation referenced to an arbitrary vertical datum.

ug/L = Micrograms per liter.

mg/L = Milligrams per liter.

p = purge sampling methods were utilized.

(a) = MTBE false positive detected by Method 8021B and confirmed below method detection limits by Method 8260B.

NM = Not measured.

NA = Not analyzed.

* - TOC and ground water elevations are relative to a site specific benchmark assigned an elevation of 100.00 feet.

MTBE = Methyl Tert-Butyl Ether.

EDC = 1,2-Dichloroethane.

EDB = 1,2-Dibromoethane

REV 4/27/04 BAB

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COPY

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RECEIVED APR 14 2004

12 April 2004

Matt Miller
Delta Environmental
1200 112th Ave NE, Suite C-210
Bellevue, WA/USA 98004
RE: BP/GEM Facility No: 6031

Enclosed are the results of analyses for samples received by the laboratory on 03/29/04 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanne Garthwaite
Project Manager



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Delta Environmental
1200 112th Ave NE, Suite C-210
Bellevue, WA/USA 98004

Project: BP/GEM Facility No: 6031
Project Number: BP/GEM Work Release No: WR 71904
Project Manager: Matt Miller

Reported:
04/12/04 12:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1-5.57	B4C0883-01	Water	03/26/04 11:46	03/29/04 16:45
MW-2-2.91	B4C0883-02	Water	03/26/04 12:15	03/29/04 16:45
MW-3-3.65	B4C0883-03	Water	03/26/04 11:00	03/29/04 16:45
MW-4-7.76	B4C0883-04	Water	03/26/04 13:15	03/29/04 16:45
MW-5-4.91	B4C0883-05	Water	03/26/04 10:26	03/29/04 16:45

North Creek Analytical - Bothell

Jeanne Garthwaite, Project Manager

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.

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Delta Environmental
1200 112th Ave NE, Suite C-210
Bellevue, WA/USA 98004

Project: BP/GEM Facility No: 6031
Project Number: BP/GEM Work Release No: WR 71904
Project Manager: Matt Miller

Reported:
04/12/04 12:30

Volatile Petroleum Products by NWTPH-Gx
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1-5.57 (B4C0883-01) Water Sampled: 03/26/04 11:46 Received: 03/29/04 16:45									
Gasoline Range Hydrocarbons	429	50.0	ug/l	1	4D05009	04/05/04	04/05/04	NWTPH-Gx	
Surrogate: 4-BFB (FID)	120 %	62-127			"	"	"	"	
MW-2-2.91 (B4C0883-02) Water Sampled: 03/26/04 12:15 Received: 03/29/04 16:45									
Gasoline Range Hydrocarbons	221	50.0	ug/l	1	4D05009	04/05/04	04/05/04	NWTPH-Gx	
Surrogate: 4-BFB (FID)	111 %	62-127			"	"	"	"	
MW-3-3.65 (B4C0883-03) Water Sampled: 03/26/04 11:00 Received: 03/29/04 16:45									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	4D05009	04/05/04	04/05/04	NWTPH-Gx	
Surrogate: 4-BFB (FID)	100 %	62-127			"	"	"	"	
MW-4-7.76 (B4C0883-04) Water Sampled: 03/26/04 13:15 Received: 03/29/04 16:45									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	4D05009	04/05/04	04/05/04	NWTPH-Gx	
Surrogate: 4-BFB (FID)	99.8 %	62-127			"	"	"	"	
MW-5-4.91 (B4C0883-05) Water Sampled: 03/26/04 10:26 Received: 03/29/04 16:45									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	4D05009	04/05/04	04/05/04	NWTPH-Gx	
Surrogate: 4-BFB (FID)	100 %	62-127			"	"	"	"	

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Delta Environmental
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Bellevue, WA/USA 98004

Project: BP/GEM Facility No: 6031
Project Number: BP/GEM Work Release No: WR 71904
Project Manager: Matt Miller

Reported:
04/12/04 12:30

MTBE Confirmation by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1-S.57 (B4C0883-01) Water Sampled: 03/26/04 11:46 Received: 03/29/04 16:45									
Methyl tert-butyl ether	338	50.0	ug/l	10	4D09036	04/09/04	04/09/04	EPA 8260B	
Surrogate: 1,2-DCA-d4	93.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.5 %	70-130			"	"	"	"	
Surrogate: 4-BFB	94.5 %	70-130			"	"	"	"	
MW-3-3.65 (B4C0883-03) Water Sampled: 03/26/04 11:00 Received: 03/29/04 16:45									
Methyl tert-butyl ether	ND	5.00	ug/l	1	4D09036	04/09/04	04/09/04	EPA 8260B	
Surrogate: 1,2-DCA-d4	92.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.0 %	70-130			"	"	"	"	
Surrogate: 4-BFB	98.5 %	70-130			"	"	"	"	
MW-4-7.76 (B4C0883-04) Water Sampled: 03/26/04 13:15 Received: 03/29/04 16:45									
Methyl tert-butyl ether	16.2	5.00	ug/l	1	4D09036	04/09/04	04/09/04	EPA 8260B	
Surrogate: 1,2-DCA-d4	92.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.5 %	70-130			"	"	"	"	
Surrogate: 4-BFB	96.0 %	70-130			"	"	"	"	

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Project: BP/GEM Facility No: 6031
Project Number: BP/GEM Work Release No: WR 71904
Project Manager: Matt Miller

Reported:
04/12/04 12:30

Total Metals by EPA 6000/7000 Series Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1-5.57 (B4C0883-01) Water Sampled: 03/26/04 11:46 Received: 03/29/04 16:45									
Lead	0.00294	0.00100	mg/l	1	4C31031	03/31/04	04/01/04	EPA 6020	
MW-2-2.91 (B4C0883-02) Water Sampled: 03/26/04 12:15 Received: 03/29/04 16:45									
Lead	ND	0.00100	mg/l	1	4C31031	03/31/04	04/01/04	EPA 6020	
MW-3-3.65 (B4C0883-03) Water Sampled: 03/26/04 11:00 Received: 03/29/04 16:45									
Lead	ND	0.00100	mg/l	1	4C31031	03/31/04	04/01/04	EPA 6020	
MW-4-7.76 (B4C0883-04) Water Sampled: 03/26/04 13:15 Received: 03/29/04 16:45									
Lead	0.00191	0.00100	mg/l	1	4C31031	03/31/04	04/01/04	EPA 6020	
MW-5-4.91 (B4C0883-05) Water Sampled: 03/26/04 10:26 Received: 03/29/04 16:45									
Lead	0.0360	0.00100	mg/l	1	4C31031	03/31/04	04/01/04	EPA 6020	

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Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

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Project: BP/GEM Facility No: 6031
Project Number: BP/GEM Work Release No: WR 71904
Project Manager: Matt Miller

Reported:
04/12/04 12:30

Dissolved Metals by EPA 6000/7000 Series Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1-5.57 (B4C0883-01) Water Sampled: 03/26/04 11:46 Received: 03/29/04 16:45 Q-30									
Lead	ND	0.00100	mg/l	1	4D01021	04/01/04	04/02/04	EPA 6020	
MW-2-2.91 (B4C0883-02) Water Sampled: 03/26/04 12:15 Received: 03/29/04 16:45 Q-30									
Lead	ND	0.00100	mg/l	1	4D01021	04/01/04	04/02/04	EPA 6020	
MW-3-3.65 (B4C0883-03) Water Sampled: 03/26/04 11:00 Received: 03/29/04 16:45 Q-30									
Lead	ND	0.00100	mg/l	1	4D01021	04/01/04	04/02/04	EPA 6020	
MW-4-7.76 (B4C0883-04) Water Sampled: 03/26/04 13:15 Received: 03/29/04 16:45 Q-30									
Lead	ND	0.00100	mg/l	1	4D01021	04/01/04	04/02/04	EPA 6020	
MW-5-4.91 (B4C0883-05) Water Sampled: 03/26/04 10:26 Received: 03/29/04 16:45 Q-30									
Lead	ND	0.00100	mg/l	1	4D01021	04/01/04	04/02/04	EPA 6020	

North Creek Analytical - Bothell

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Jeanne Garthwaite, Project Manager

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907.563.9200 fax 907.563.9240

Delta Environmental
1200 112th Ave NE, Suite C-210
Bellevue, WA/USA 98004

Project: BP/GEM Facility No: 6031
Project Number: BP/GEM Work Release No: WR 71904
Project Manager: Matt Miller

Reported:
04/12/04 12:30

BTEX and MTBE by EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1-5.57 (B4C0883-01) Water Sampled: 03/26/04 11:46 Received: 03/29/04 16:45									
Benzene	49.1	0.500	ug/l	1	4D05009	04/05/04	04/05/04	EPA 8021B	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	5.48	0.500	"	"	"	"	"	"	
Xylenes (total)	23.9	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	312	5.00	"	5	"	"	04/05/04	"	
Surrogate: 4-BFB (PID)	111 %	72-127			"	"	04/05/04	"	
MW-2-2.91 (B4C0883-02) Water Sampled: 03/26/04 12:15 Received: 03/29/04 16:45									
Benzene	5.53	0.500	ug/l	1	4D05009	04/05/04	04/05/04	EPA 8021B	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	14.8	0.500	"	"	"	"	"	"	
Xylenes (total)	9.67	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (PID)	110 %	72-127			"	"	"	"	
MW-3-3.65 (B4C0883-03) Water Sampled: 03/26/04 11:00 Received: 03/29/04 16:45									
Benzene	ND	0.500	ug/l	1	4D05009	04/05/04	04/05/04	EPA 8021B	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	2.20	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (PID)	106 %	72-127			"	"	"	"	
MW-4-7.76 (B4C0883-04) Water Sampled: 03/26/04 13:15 Received: 03/29/04 16:45									
Benzene	ND	0.500	ug/l	1	4D05009	04/05/04	04/05/04	EPA 8021B	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	18.5	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (PID)	105 %	72-127			"	"	"	"	

North Creek Analytical - Bothell

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Jeanne Garthwaite, Project Manager

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Delta Environmental
1200 112th Ave NE, Suite C-210
Bellevue, WA/USA 98004

Project: BP/GEM Facility No: 6031
Project Number: BP/GEM Work Release No: WR 71904
Project Manager: Matt Miller

Reported:
04/12/04 12:30

BTEX and MTBE by EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5-4.91 (B4C0883-05) Water Sampled: 03/26/04 10:26 Received: 03/29/04 16:45									
Benzene	ND	0.500	ug/l	1	4D05009	04/05/04	04/05/04	EPA 8021B	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (PID)	105 %	72-127			"	"	"	"	

North Creek Analytical - Bothell

Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

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Bellevue, WA/USA 98004

Project: BP/GEM Facility No: 6031
Project Number: BP/GEM Work Release No: WR 71904
Project Manager: Matt Miller

Reported:
04/12/04 12:30

Volatile Petroleum Products by NWTPH-Gx - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4D05009: Prepared 04/05/04 Using EPA 5030B (P/T)										
Blank (4D05009-BLK1)										
Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Surrogate: 4-BFB (FID)	48.3		"	48.0		101	62-127			
LCS (4D05009-BS1)										
Gasoline Range Hydrocarbons	530	50.0	ug/l	502		106	80-120			
Surrogate: 4-BFB (FID)	53.1		"	48.0		111	62-127			
LCS Dup (4D05009-BSD1)										
Gasoline Range Hydrocarbons	521	50.0	ug/l	502		104	80-120	1.71	25	
Surrogate: 4-BFB (FID)	52.5		"	48.0		109	62-127			
Matrix Spike (4D05009-MS1) Source: B4C0881-04										
Gasoline Range Hydrocarbons	529	50.0	ug/l	502	9.35	104	72-119			
Surrogate: 4-BFB (FID)	52.3		"	48.0		109	62-127			
Matrix Spike Dup (4D05009-MSD1) Source: B4C0881-04										
Gasoline Range Hydrocarbons	520	50.0	ug/l	502	9.35	102	72-119	1.72	25	
Surrogate: 4-BFB (FID)	52.3		"	48.0		109	62-127			

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Bellevue, WA/USA 98004

Project: BP/GEM Facility No: 6031
Project Number: BP/GEM Work Release No: WR 71904
Project Manager: Matt Miller

Reported:
04/12/04 12:30

MTBE Confirmation by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4D09036: Prepared 04/09/04 Using EPA 5030B										
Blank (4D09036-BLK1)										
Methyl tert-butyl ether	ND	5.00	ug/l							
Surrogate: 1,2-DCA-d4	18.2		"	20.0		91.0	70-130			
Surrogate: Toluene-d8	19.7		"	20.0		98.5	70-130			
Surrogate: 4-BFB	18.6		"	20.0		93.0	70-130			
LCS (4D09036-BS1)										
Methyl tert-butyl ether	11.1	5.00	ug/l	10.0		111	70-130			
Surrogate: 1,2-DCA-d4	18.3		"	20.0		91.5	70-130			
Surrogate: Toluene-d8	20.0		"	20.0		100	70-130			
Surrogate: 4-BFB	18.8		"	20.0		94.0	70-130			
LCS Dup (4D09036-BSD1)										
Methyl tert-butyl ether	9.76	5.00	ug/l	10.0		97.6	70-130	12.8	20	
Surrogate: 1,2-DCA-d4	18.5		"	20.0		92.5	70-130			
Surrogate: Toluene-d8	19.6		"	20.0		98.0	70-130			
Surrogate: 4-BFB	19.1		"	20.0		95.5	70-130			

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Delta Environmental
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Bellevue, WA/USA 98004

Project: BP/GEM Facility No: 6031
Project Number: BP/GEM Work Release No: WR 71904
Project Manager: Matt Miller

Reported:
04/12/04 12:30

Total Metals by EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 4C31031: Prepared 03/31/04 Using EPA 3020A									
Blank (4C31031-BLK1)									
Lead	ND	0.00100	mg/l						
LCS (4C31031-BS1)									
Lead	0.0776	0.00100	mg/l	0.0800		97.0	80-120		
LCS Dup (4C31031-BSD1)									
Lead	0.0776	0.00100	mg/l	0.0800		97.0	80-120	0.00	20
Matrix Spike (4C31031-MS1)									
					Source: B4C0883-01				
Lead	0.0810	0.00100	mg/l	0.0800	0.00294	97.6	75-125		
Matrix Spike Dup (4C31031-MSD1)									
					Source: B4C0883-01				
Lead	0.0828	0.00100	mg/l	0.0800	0.00294	99.8	75-125	2.20	20
Post Spike (4C31031-PS1)									
					Source: B4C0883-01				
Lead	0.102		ug/ml	0.100	0.00294	99.1	75-125		

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Delta Environmental
1200 112th Ave NE, Suite C-210
Bellevue, WA/USA 98004

Project: BP/GEM Facility No: 6031
Project Number: BP/GEM Work Release No: WR 71904
Project Manager: Matt Miller

Reported:
04/12/04 12:30

Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4D01021: Prepared 04/01/04 Using EPA 3005A										
Blank (4D01021-BLK1)										
Lead	ND	0.00100	mg/l							
LCS (4D01021-BS1)										
Lead	0.198	0.00100	mg/l	0.200		99.0	80-120			
LCS Dup (4D01021-BS1)										
Lead	0.199	0.00100	mg/l	0.200		99.5	80-120	0.504	20	
Matrix Spike (4D01021-MS1) Source: B4C0883-01										
Lead	0.0924	0.00100	mg/l	0.100	ND	92.4	75-125			
Matrix Spike Dup (4D01021-MSD1) Source: B4C0883-01										
Lead	0.0926	0.00100	mg/l	0.100	ND	92.6	75-125	0.216	20	

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Delta Environmental
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Bellevue, WA/USA 98004

Project: BP/GEM Facility No: 6031
Project Number: BP/GEM Work Release No: WR 71904
Project Manager: Matt Miller

Reported:
04/12/04 12:30

BTEX and MTBE by EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 4D05009: Prepared 04/05/04 Using EPA 5030B (P/T)									
Blank (4D05009-BLK1)									
Benzene	ND	0.500	ug/l						
Toluene	ND	0.500	"						
Ethylbenzene	ND	0.500	"						
Xylenes (total)	ND	1.00	"						
Methyl tert-butyl ether	ND	1.00	"						
Surrogate: 4-BFB (PID)	50.7		"	48.0		106	72-127		
LCS (4D05009-BS1)									
Toluene	36.4	0.500	ug/l	34.9		104	80-120		
Ethylbenzene	9.32	0.500	"	8.38		111	80-120		
Xylenes (total)	45.5	1.00	"	40.6		112	80-120		
Surrogate: 4-BFB (PID)	49.0		"	48.0		102	72-127		
LCS (4D05009-BS2)									
Benzene	10.1	0.500	ug/l	10.0		101	80-120		
Methyl tert-butyl ether	11.4	1.00	"	10.0		114	74-123		
Surrogate: 4-BFB (PID)	50.8		"	48.0		106	72-127		
LCS Dup (4D05009-BSD1)									
Toluene	35.5	0.500	ug/l	34.9		102	80-120	2.50	40
Ethylbenzene	9.04	0.500	"	8.38		108	80-120	3.05	40
Xylenes (total)	44.0	1.00	"	40.6		108	80-120	3.35	40
Surrogate: 4-BFB (PID)	47.8		"	48.0		99.6	72-127		
LCS Dup (4D05009-BSD2)									
Benzene	10.2	0.500	ug/l	10.0		102	80-120	0.985	40
Methyl tert-butyl ether	10.6	1.00	"	10.0		106	74-123	7.27	40
Surrogate: 4-BFB (PID)	50.9		"	48.0		106	72-127		

North Creek Analytical - Bothell

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Delta Environmental
1200 112th Ave NE, Suite C-210
Bellevue, WA/USA 98004

Project: BP/GEM Facility No: 6031
Project Number: BP/GEM Work Release No: WR 71904
Project Manager: Matt Miller

Reported:
04/12/04 12:30

BTEX and MTBE by 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 4D05009: Prepared 04/05/04 Using EPA 5030B (P/T)										
Matrix Spike (4D05009-MS1)					Source: B4C0881-04					
Toluene	36.8	0.500	ug/l	34.9	ND	105	73-114			
Ethylbenzene	9.32	0.500	"	8.38	ND	111	82-120			
Xylenes (total)	45.4	1.00	"	40.6	ND	112	74-118			
Surrogate: 4-BFB (PID)	48.0		"	48.0		100	72-127			
Matrix Spike (4D05009-MS2)					Source: B4C0883-03					
Benzene	10.2	0.500	ug/l	10.0	ND	102	70-129			
Methyl tert-butyl ether	11.1	1.00	"	10.0	2.20	89.0	75-143			
Surrogate: 4-BFB (PID)	51.4		"	48.0		107	72-127			
Matrix Spike Dup (4D05009-MSD1)					Source: B4C0881-04					
Toluene	36.5	0.500	ug/l	34.9	ND	105	73-114	0.819	40	
Ethylbenzene	9.19	0.500	"	8.38	ND	110	82-120	1.40	40	
Xylenes (total)	44.8	1.00	"	40.6	ND	110	74-118	1.33	40	
Surrogate: 4-BFB (PID)	48.0		"	48.0		100	72-127			
Matrix Spike Dup (4D05009-MSD2)					Source: B4C0883-03					
Benzene	10.1	0.500	ug/l	10.0	ND	101	70-129	0.985	40	
Methyl tert-butyl ether	14.1	1.00	"	10.0	2.20	119	75-143	23.8	40	
Surrogate: 4-BFB (PID)	51.3		"	48.0		107	72-127			

North Creek Analytical - Bothell

Jeanne Garthwaite, Project Manager

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Delta Environmental
1200 112th Ave NE, Suite C-210
Bellevue, WA/USA 98004

Project: BP/GEM Facility No: 6031
Project Number: BP/GEM Work Release No: WR 71904
Project Manager: Matt Miller

Reported:
04/12/04 12:30

Notes and Definitions

Q-30 This sample was laboratory filtered since it was not field filtered as is required by the methodology.

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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Environmental Laboratory Network

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440000's



Chain of Custody Record

Page of

Project Name: Routine Ground Water Monitoring
 BP BU/GEM CO Portfolio: Atlantic Richfield Company
 BP Laboratory Contract Number: 461000

On-site Time: 0936 Temp:
 Off-site Time: 1350 Temp:
 Sky Conditions: Rain
 Meteorological Events:
 Wind Speed: Direction:

Requested Due Date (mm/dd/yy): Standard 10 Day
 COC TRACKING No.:

Send To: BP/GEM Facility No.: ARCO Facility No. 6031 Consultant/Contractor: Delta Environmental Consultants, Inc.
 Lab Name: North Creek Analytical, Inc. BP/GEM Facility Address: 111450 NE 124th Street, Kirkland, WA Address: 1200 112th Avenue Northeast
 Lab Address: 11720 North Creek Site ID No. NA Bellevue, Washington 98004
 Lab Address: Parkway N, Bothell Site Lat/Long: California Global ID #: NA e-mail EDD: mrmiller@deltaenv.com
 Lab Address: WA, 98011 BP/GEM PM Contact: Scott Hooton Consultant/Contractor Project No.: AM00-511
 Lab PM: Jeanne Garthwaite BP/GEM PM Contact: Scott Hooton Consultant/Contractor Tele/Fax: 425-450-7707/425-450-88
 Tele/Fax: 425-420-9200/ Address: 295 SW 41st Street, Bldg 13, Ste N Consultant/Contractor PM: Matt Miller
 Report Type & QC Level: 425-420-9210 Address: Renton, Washington 98055 Invoice to: Consultant or BP or Atlantic Richfield Co (Circle one)
 BP/GEM Account No.: Tele/Fax: 425-251-0689/425-251-0736 BP/GEM Work Release No: WR71904
 Lab Bottle Order No: Matrix Preservatives Requested Analysis

Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air	Laboratory No.	No. of containers	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NWTPH-Gx	BTEX(8021B)	BTEX+MTBE(8021B)*	EDC(8260B)	EDB(8011B)	Total Lead	Dissolved Lead	Sample Point Lat/Long and Comments
1	MW-1-5.57	1146	3/24/04	X			01	6	1	1	1	4	X	X			X	X		
2	MW-2-2.91	1215	3/24/04	X			02	6	1	1	1	4	X	X			X	X		
3	MW-3-3.65	1100	3/24/04	X			03	6	1	1	1	4	X	X			X	X		
4	MW-4-7.76	1315	3/24/04	X			04	6	1	1	1	4	X	X			X	X		
5	MW-5-4.91	1026	3/24/04	X			05	8	1	1	1	4	X	X			X	X		
6																				
7																				
8																				
9																				
10																				

Sampler's Name: K. Cunniff Relinquished By / Affiliation: Date: 3/29/04 Time: 0915 Accepted By / Affiliation: Tom Blum NCA Date: 3/29/04 Time: 1645
 Sampler's Company: Delta Env. Shipment Date: 3/29/04 Shipment Method: NCA Shipment Tracking No.:
 Special Instructions: * If possible for MTBE or MTBE is not detected above an MRL exceeding 20ug/l, then analyse by 8260B for confirmation MTBE

Custody Seals In Place Yes ☒ No Cooler Temperature on Receipt 2.4 °F(°C) Trip Blank Yes No
 Distribution: White Copy - Laboratory / Yellow Copy - BP/GEM / Pink Copy - Consultant/Contractor BP COC Rev. 2 4/18/03

MAY 24 2004
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