

Circle K Station #1461
Release ID#: 1548
Seattle



EA Engineering, Science, and Technology, Inc.

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16 February 2006
61994.01 LN0006

Mr. Roger Nye
Washington Department of Ecology
Toxics Cleanup Program
3190 – 160th Avenue Southeast
Bellevue, Washington 98008-5452

RE: Circle K Station #1461 Groundwater Data Summary
Work Order #17079, Contract Number: 30700

Dear Mr. Nye:

Enclosed is a summary of the analytical results from groundwater samples collected during May and June 2005 at Circle K Station #1461, in the Montlake area of Seattle (Table A). Results for the one sample collected in May (from well MW-15) were available and were presented in the Investigation Report submitted in June 2005, however results for the samples collected in June (from wells MW-4, MW-9, MW-13, and MW-15) were received after the due date for that report. A copy of a site figure is attached to show well locations.

As described in the Investigation Report, on 23 June 2005, two weeks after performance of an Enhanced Fluid Recovery (EFR) test at the site, the five monitoring wells within the plume boundaries (MW-4, MW-8, MW-9, MW-13, and MW-15) were gauged for the presence of free product. Free product was measured in well MW-8 at a thickness of 0.01 ft. Less than 0.01 ft of product (trace) was measured in MW-4 and MW-9. Free product was not observed in MW-13 or MW-15. Monitoring wells with less than 0.01 ft of free product were sampled.

Gasoline-range organics (GRO) concentrations in all four wells sampled exceeded the Model Toxics Control Act (MTCA) cleanup criterion of 800 micrograms per liter ($\mu\text{g/L}$). Diesel-range organics (DRO) concentrations in all four wells also exceeded the MTCA cleanup criterion of 500 $\mu\text{g/L}$. However, the laboratory noted that "results in the diesel organics range are primarily due to overlap from a gasoline range product." Benzene, toluene, ethylbenzene, and xylenes (BTEX) concentrations exceeded the MTCA cleanup criteria in the samples from wells MW-4, MW-9, and MW-13. No lube-oil range organics (LRO) or methyl tertiary-butyl ether (MTBE) was detected in any of the samples. Detection limits for LRO and MTBE were generally elevated due to the high concentrations of other petroleum constituents in the samples. The detection limit for MTBE exceeded the MTCA cleanup criterion for all samples except that from well MW-15. Although MTBE was detected in the sample from MW-15 using EPA Method 8021B, it was not confirmed when the sample was run by EPA Method 8260B.

A comparison to historical data provided in the Department of Ecology's 2003 summary table (Attached, labeled Table 1), as well as field measurement data collected by EA Engineering in May 2005, indicates the following:



12/1/06

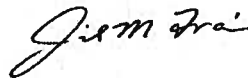
- MW-4 – In 2001 and 2003 this well contained less than 0.1 ft of free product. In May 2005, before the EFR test, the measured free product thickness was 0.3 ft. Following the EFR test, only a trace of free product was detected. The well was sampled in April 2001; concentrations of GRO and BTEX have decreased since that time.
- MW-8 – In 2001 and 2003 this well contained 0.1 ft of free product. In May 2005, before the EFR test, only a trace of free product was detected in the well. Following the EFR test, 0.01 ft of free product was detected.
- MW-9 – In 2001 and 2003 this well contained 0.01 to 0.02 ft of free product. In May 2005, before the EFR test, 0.02 ft of free product was detected in the well. Following the EFR test, a trace of free product was detected. The well was previously sampled in April 2001; concentrations of GRO and BTEX have increased since that time.
- MW-13 – In 2003, this well contained 0.02 ft of free product. In May 2005, 0.01 ft of free product was detected. Following the EFR test, no free product was detected. No water quality data were provided for 2001 or 2003; therefore, no comparison can be done.
- MW-15 – In 2001, 0.01 ft of free product was present. No free product was detected in 2003. No free product was detected in May or June 2005. The well was previously sampled in 2001 and 2003; concentrations of GRO and BTEX have decreased from each sampling event to the next.

Wells MW-6, MW-8, MW-11, MW-13, MW-14, MW-15, and MW-16 were sampled on 14 February 2006. Wells MW-4 and MW-9 had 0.02 ft of free product, and were therefore not sampled. Results of that sampling will be provided to you in March.

Please feel free to contact me at (425) 451-7400 if you have any questions about the enclosed.

Sincerely,

EA ENGINEERING, SCIENCE,
AND TECHNOLOGY, INC.



Jil Frain, P.E.
Project Manager
jfrain@eaest.com

TABLE A. SUMMARY OF GROUNDWATER ANALYTICAL DATA, CIRCLE K STATION

Well ID	Date Sampled	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (total) (ug/L)	GRO (ug/L)	DRO (ug/L)	LRO (ug/L)	MTBE (ug/L)	Lead (mg/L)
CK-MW-4	6/23/2005	240	3,750	1,640	10,700	65,600	1,870 D-08	500 U	50.0 U	NA
CK-MW-9	6/23/2005	1,820	6,140	1,820	9,350	71,300	1,810 D-08	500 U	200 U	NA
CK-MW-13*	6/23/2005	8,560	16,800	1,920	12,900	115,000	3,720 D-08	500 U	50.0 U	NA
CK-MW-13D*	6/23/2005	8,560	16,900	1,880	12,700	121,000	3,010 D-08	500 U	50.0 U	NA
CK-MW-15	5/31/2005	1.26	0.500 U	2.60 I-06	3.39 I-06	878	NA	NA	1.00 U	0.00100 U
CK-MW-15	6/23/2005	2.01	3.18	2.48	6.34	950	749 D-08	500 U	1.00 U	NA
MTCA Method A Cleanup Criteria		5	1,000	700	1,000	800/1,000	500	500	20	0.015

NOTES:

Shaded cells indicate the results exceed the cleanup criteria.

* Sample CK-MW-13D is a duplicate of CK-MW-13.

DRO = Diesel range organics.

GRO = Gasoline range organics.

LRO = Lube-oil range organics.

ug/L = micrograms per liter.

mg/L = milligrams per liter

MTCA Method A cleanup level for gasoline is 800 ug/L instead of 1,000 ug/L when benzene is present.

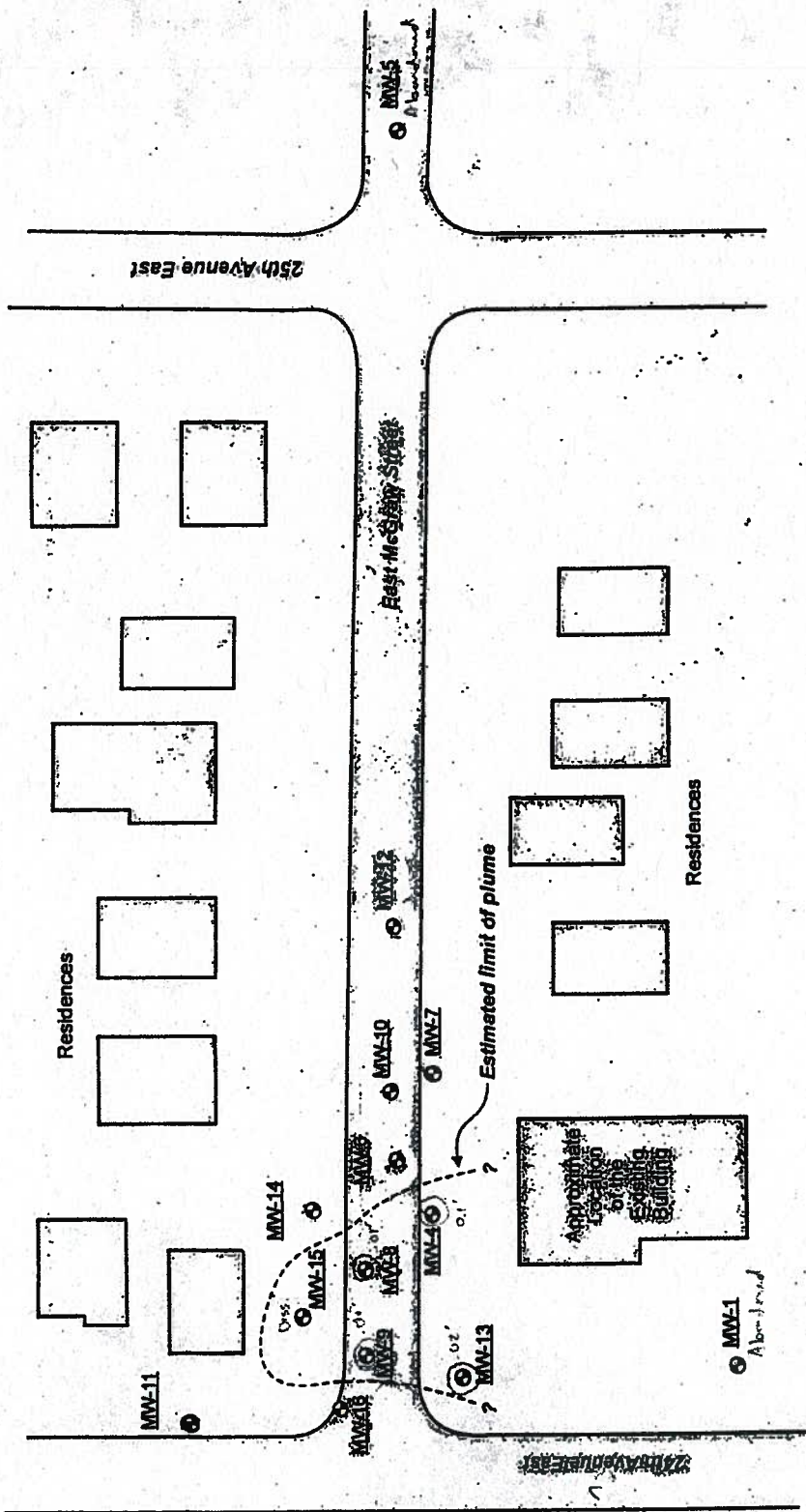
NA = not analyzed

U = Not detected at or above the specified reporting limit.

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.

At the time of sampling, MW-4 and MW-9 contained a trace (<0.01 inch) of free product. MW-13 and MW-15 had no observed free product.



Former Circle K
 Montlake Area
 Seattle, Washington

Pinnacle GeoSciences

Locations of All Features Shown Are Approximate

TABLE 1 (page 1 of 2)
SUMMARY OF GROUND WATER FIELD DATA
MONTLAKE CIRCLE K
SEATTLE, WASHINGTON

Monitoring Well Number	Date Measured	Casing Rim Elevation ¹ (feet)	Depth to Water ² (feet)	Depth to Product ² (feet)	Ground Water Elevation ¹ (feet)	Corrected Elevation ³ (feet)	Change in Elevation ⁴ (feet)
MW-1	11-Apr-01	100.94	12.62	--	88.32		--
	16-Jun-03	103.25	12.13	--	91.12		
	11-Jul-03	103.25	12.34	--	90.91		
MW-4	11-Apr-01	98.38	10.23	10.20	88.15	88.18	--
	16-Jun-03	100.73	10.56	10.47	90.17	90.25	
	11-Jul-03	100.73	10.72	10.62	90.01	90.10	
MW-5	11-Apr-01	90.94	9.97	--	80.97		--
	16-Jun-03	93.34	10.95	--	82.39		
	11-Jul-03	93.34	11.31	--	82.03		
MW-6	11-Apr-01	97.92	11.57	--	86.35		--
	16-Jun-03	100.25	11.63	--	88.62		
	11-Jul-03	100.25	11.63	--	88.62		
MW-7	11-Apr-01	97.43	8.15	--	89.28		--
	16-Jun-03	99.75	10.38	--	89.37		
	11-Jul-03	99.75		--	99.75		
MW-8	11-Apr-01	98.36	10.18	10.17	88.18	88.19	--
	16-Jun-03	100.70	10.68	10.67	90.02	90.03	
	11-Jul-03	100.70	10.87	10.86	89.83	89.84	

TABLE 1 (page 2 of 2)
SUMMARY OF GROUND WATER FIELD DATA
MONTLAKE CIRCLE K
SEATTLE, WASHINGTON

Monitoring Well Number	Date Measured	Casing Rim Elevation ¹ (feet)	Depth to Water ² (feet)	Depth to Product ² (feet)	Ground Water Elevation ¹ (feet)	Corrected Elevation ³ (feet)	Change in Elevation ⁴ (feet)
MW-9	11-Apr-01	99.03	10.34	10.33	88.69	88.70	--
	16-Jun-03	101.42	10.97	10.95	90.45	90.47	
	11-Jul-03	101.42	11.22	11.21	90.20	90.21	
MW-10	11-Apr-01	97.55	9.66	--	87.89		--
	16-Jun-03	99.96	10.53	--	89.43		
	11-Jul-03	99.96	10.86	--	89.10		
MW-11	11-Apr-01	98.62	2.89	--	95.73		--
	16-Jun-03	100.91	10.07	--	90.84		
	11-Jul-03	100.91	10.80	--	90.11		
MW-12	11-Apr-01	96.56	11.18	--	85.38		--
	16-Jun-03	98.97	11.27	--	87.70		
	11-Jul-03	98.97	11.23	--	87.74		
MW-13	11-Apr-01	99.95	NM	NM	--		--
	11-Jul-03	102.19	11.86	11.84	90.33	90.35	
MW-14	11-Apr-01	98.07	8.46	--	89.61		--
	16-Jun-03	100.45	9.87	--	90.58		
	11-Jul-03	100.41	Dry	--	--		

TABLE 1 (page 3 of 3)
SUMMARY OF GROUND WATER FIELD DATA ¹
MONTLAKE CIRCLE K
SEATTLE, WASHINGTON

Monitoring Well Number	Date Measured	Casing Rim Elevation ¹ (feet)	Depth to Water ² (feet)	Depth to Product ² (feet)	Ground Water Elevation ¹ (feet)	Corrected Elevation ³ (feet)	Change in Elevation ⁴ (feet)
MW-15	11-Apr-01	99.04	9.11	9.10	89.93	89.94	--
	16-Jun-03	101.34	10.69	--	90.65		
	11-Jul-03	101.31	11.11	--	90.20		
MW-16	11-Apr-01	99.04	9.43	--	89.61		--
	16-Jun-03	101.25	10.60	--	90.65		
	11-Jul-03	101.16	10.98	--	90.18		

¹ April 2001 elevations are based on GeoEngineers, Inc. Progress Report No. 1; Remedial Monitoring Program; Creek K Facility 1461; August 23, 1990.

The June and July 2003 elevations are based on a new survey performed on July 1, 2003 and are relative to a temporary benchmark with an assumed elevation of 100.00 feet, shown in Figure 1.

² Depth to water and product below a fixed spot on the well casing rim.

³ Ground water elevation corrected for the presence of free product, assuming a specific gravity of 0.85 for the product.

⁴ Change in ground water elevation since preceding monitoring event. Positive number indicates rising water level, negative indicates falling water level.

TABLE 2 (page 1 of 3)
 SUMMARY OF GROUND WATER SAMPLE ANALYTICAL DATA ¹

MONTLAKE CIRCLE K #1461
 SEATTLE, WASHINGTON

Monitoring Well Number ²	Date	Benzene ³ (µg/L)	Toluene ³ (µg/L)	Ethyl-benzene ³ (µg/L)	Xylenes ³ (µg/L)	MTBE ³ (µg/L)	GRO ⁴ (mg/L)	Free Product Present?
MW-1	11-Apr-01	0.500 U	0.500 U	0.500 U	1.00 U	--	0.0500 U	No
	16-Jun-03	0.500 U	0.500 U	0.500 U	1.00 U	1.00 U	0.0500 U	No
MW-4	11-Apr-01	7,370	28,000	2,680	17,100	--	117	Yes
	16-Jun-03	--	--	--	--	--	--	Yes
MW-5	11-Apr-01	0.500 U	0.500 U	0.500 U	1.00 U	--	0.0500 U	No
	16-Jun-03	0.500 U	0.500 U	0.500 U	1.00 U	1.00 U	0.0500 U	No
MW-6	11-Apr-01	0.500 U	0.500 U	0.500 U	1.00 U	--	0.0500 U	No
	16-Jun-03	0.500 U	0.500 U	0.500 U	1.00 U	1.00 U	0.0500 U	No
MW-7	11-Apr-01	0.500 U	0.500 U	0.500 U	1.00 U	--	0.0500 U	No
	16-Jun-03	0.500 U	0.500 U	0.500 U	1.00 U	1.00 U	0.0500 U	No
MW-8	11-Apr-01	892	9,770	1,520	7,030	--	46.4	Yes
	16-Jun-03	--	--	--	--	--	--	Yes
MW-9	11-Apr-01	420	2,310	1,500	7,350	--	35.4	Yes
	16-Jun-03	--	--	--	--	--	--	Yes
Cleanup Level ⁵		5	1,000	700	1,000	20	0.8/1.0 ⁶	

TABLE 2 (page 2 of 3)
SUMMARY OF GROUND WATER SAMPLE ANALYTICAL DATA ¹
MONTLAKE CIRCLE K #1461
SEATTLE, WASHINGTON

Monitoring Well Number ²	Date	Benzene ³ (µg/L)	Toluene ³ (µg/L)	Ethyl-benzene ³ (µg/L)	Xylenes ³ (µg/L)	MTBE ³ (µg/L)	GRO ⁴ (mg/L)	Free Product Present?
MW-10	11-Apr-01	0.500 U	0.500 U	0.500 U	1.00 U	--	0.0500 U	No
	16-Jun-03	0.500 U	0.500 U	0.500 U	1.00 U	1.00 U	0.0500 U	No
MW-11	11-Apr-01	0.500 U	0.500 U	0.500 U	1.00 U	--	0.0500 U	No
	16-Jun-03	0.500 U	0.500 U	0.500 U	1.00 U	1.00 U	0.0500 U	No
MW-12	11-Apr-01	0.500 U	0.500 U	0.500 U	1.00 U	--	0.0500 U	No
	16-Jun-03	0.500 U	0.500 U	0.500 U	1.00 U	1.00 U	0.0500 U	No
MW-13	11-Apr-01	--	--	--	--	--	--	
	16-Jun-03	--	--	--	--	--	--	
MW-14	11-Apr-01	0.500 U	0.500 U	0.500 U	1.00 U	--	0.0500 U	No
	16-Jun-03	0.500 U	0.500 U	0.500 U	1.00 U	--	0.0500 U	No
MW-15	11-Apr-01	56.4	310	526	2,970	--	23.6	No
	16-Jun-03	6.72	83.3	12.6	199	15.5	3.15	No
MW-16	11-Apr-01	0.500 U	0.500 U	0.500 U	1.00 U	--	0.0500 U	No
	16-Jun-03	0.500 U	0.500 U	0.500 U	1.00 U	1.00 U	0.0500 U	No
Cleanup Level ⁵		5	1,000	700	1,000	20	0.8/1.0 ⁶	

TABLE 2 (page 3 of 3)
SUMMARY OF GROUND WATER SAMPLE ANALYTICAL DATA ¹
MONTLAKE CIRCLE K #1461
SEATTLE, WASHINGTON

Notes:

¹ Samples analyzed by North Creek Analytical, Inc. of Bothell, Washington.

² Well locations are shown on Figure 2.

³ By EPA Method 8021B.

⁴ Gasoline-range organics by Ecology Method NWTPH-G.

⁵ MTCA Method A Ground Water Cleanup Level.

⁶ The cleanup level for gasoline-range organics is 0.8 mg/L when benzene is present, and 1.0 mg/L when benzene is not present.

µg/L = micrograms per liter

mg/L = milligrams per liter

"-" = not tested

DQ = data qualifier

U = not detected at or above the specified concentration

J = estimated concentration outside instrument calibration range

Supplied concentrations exceed the MTCA Method A ground water cleanup levels



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 541.383.9310 fax 541.382.7588
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08 July 2005

Cathy Bohlke
 EA Engineering, Science and Technology
 12011 Bellevue Redmond Rd Suite # 200
 Bellevue, WA/USA 98005

RE: ~~T11~~ + Circle K

Enclosed are the results of analyses for samples received by the laboratory on 06/23/05 14:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Amar Gill
 Project Manager





18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508 (425) 420-9200 FAX 420-9210
 East 11115 Montgomery, Suite B, Spokane, WA 98206-4776 (509) 924-9200 FAX 924-9290
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 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 (541) 383-9310 FAX 382-7588

CHAIN OF CUSTODY REPORT

CLIENT: **Ecology**
 REPORT TO: **EA Engineering - Cathy Bohle**
 ADDRESS: **12011 Bel-Red Rd, Ste 200**
Belleme, WA
 PHONE: **425-457-9488**
 PROJECT NAME: **Circle K**
 PROJECT NUMBER: **61994.01**
 SAMPLED BY: **AOB**

INVOICE TO: **WA Dept of Ecology**
Attn: Roger Nye.
 P.O. NUMBER: **425-457-9488**

TURNAROUND REQUEST IN BUSINESS DAYS*
 Organic & Inorganic Analyses: 10, 7, 5, 4, 3, 2, 1, <1
 Petroleum Hydrocarbon Analyses: 4, 3, 2, 1, <1
 STD. OTHER: Please Specify

*Turnaround Requests less than standard may incur Rush Charge.

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	REQUESTED ANALYSES	MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO ID
1. CK-MW15	6/23/05 1015	THG/STX/ATBE NWTH-DX 8260	W	8		01
2. CK-MW9	6/23/05 1110			8		02
3. CK-MW13	1230			8		03
4. CK-MW13D	1235			8		04
5. CK-MW14	1340			8		05
6. CK-MW-TB	6/23/05			2		00
7.						
8.						
9.						
10.						
11.						
12.						
13.						
14.						
15.						

RELINQUISHED BY: **Mark Blinster** DATE: **6/23/05** RECEIVED BY: **Don Walker** DATE: **6/23/05**
 PRINT NAME: **Mark Blinster** FIRM: **EA Eng** PRINT NAME: **Don Walker** FIRM: **NCA**
 RECEIVED BY: **Don Walker** DATE: **6/23/05**
 PRINT NAME: **Don Walker** FIRM: **NCA**
 RECEIVED BY: **Don Walker** DATE: **6/23/05**
 PRINT NAME: **Don Walker** FIRM: **NCA**

ADDITIONAL REMARKS:
 TEMP: **5.70** w/o
 DATE: **6/23/05** TIME: **1440**
 DATE: **6/23/05** TIME: **1440**
 DATE: **6/23/05** TIME: **1440**
 DATE: **6/23/05** TIME: **1440**
 FIRM: **NCA** FIRM: **NCA** FIRM: **NCA** FIRM: **NCA**
 PAGE 1 OF 1



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Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

EA Engineering, Science and Technology
12011 Bellevue Redmond Rd Suite # 200
Bellevue, WA/USA 98005

Project: Tiki + Circle K
Project Number: 61994.01
Project Manager: Cathy Bohlke

Reported:
07/08/05 15:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CK-MW15	B5F0578-01	Water	06/23/05 10:15	06/23/05 14:40
CK-MW9	B5F0578-02	Water	06/23/05 11:10	06/23/05 14:40
CK-MW13	B5F0578-03	Water	06/23/05 12:30	06/23/05 14:40
CK-MW13D	B5F0578-04	Water	06/23/05 12:35	06/23/05 14:40
CK-MW4	B5F0578-05	Water	06/23/05 13:40	06/23/05 14:40
CK-MW-TB	B5F0578-06	Water	06/23/05 12:00	06/23/05 14:40

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.

Amar Gill, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network



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EA Engineering, Science and Technology 12011 Bellevue Redmond Rd Suite # 200 Bellevue, WA/USA 98005	Project: Tiki + Circle K Project Number: 61994.01 Project Manager: Cathy Bohlke	Reported: 07/08/05 15:28
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Gasoline Hydrocarbons (Benzene to Naphthalene), BTEX and MTBE by NWTPH-G and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
CK-MW15 (B5F0578-01) Water Sampled: 06/23/05 10:15 Received: 06/23/05 14:40										
Benzene	2.01	0.500		ug/l	1	5F28029	06/28/05	06/28/05	NWTPH-G/8021B	
Toluene	3.18	0.500		"	"	"	"	"	"	
Ethylbenzene	2.48	0.500		"	"	"	"	"	"	
Xylenes (total)	6.34	1.00		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00		"	"	"	"	"	"	A-01
Surrogate: 4-BFB (PID)	111 %	68-140				"	"	"	"	
CK-MW15 (B5F0578-01RE1) Water Sampled: 06/23/05 10:15 Received: 06/23/05 14:40										
Gasoline Range Hydrocarbons	950	50.0		ug/l	1	5F29016	06/29/05	06/29/05	NWTPH-G/8021B	
Surrogate: 4-BFB (FID)	89.0 %	58-144				"	"	"	"	
CK-MW9 (B5F0578-02) Water Sampled: 06/23/05 11:10 Received: 06/23/05 14:40										
Benzene	1820	100		ug/l	200	5F28029	06/28/05	06/28/05	NWTPH-G/8021B	
Toluene	6140	100		"	"	"	"	"	"	
Ethylbenzene	1820	100		"	"	"	"	"	"	
Xylenes (total)	9350	200		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	200		"	"	"	"	"	"	
Surrogate: 4-BFB (PID)	106 %	68-140				"	"	"	"	
CK-MW9 (B5F0578-02RE1) Water Sampled: 06/23/05 11:10 Received: 06/23/05 14:40										
Gasoline Range Hydrocarbons	71300	10000		ug/l	200	5F29016	06/29/05	06/29/05	NWTPH-G/8021B	
Surrogate: 4-BFB (FID)	76.2 %	58-144				"	"	"	"	
CK-MW13 (B5F0578-03) Water Sampled: 06/23/05 12:30 Received: 06/23/05 14:40										
Methyl tert-butyl ether	ND	10.0		ug/l	10	5F28029	06/28/05	06/28/05	NWTPH-G/8021B	A-01
Surrogate: 4-BFB (PID)	107 %	68-140				"	"	"	"	

North Creek Analytical - Bothell

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EA Engineering, Science and Technology
12011 Bellevue Redmond Rd Suite # 200
Bellevue, WA/USA 98005

Project: Tiki + Circle K
Project Number: 61994.01
Project Manager: Cathy Bohlke

Reported:
07/08/05 15:28

Notes and Definitions

- A-01 The MTBE hit observed by EPA 8021B was not confirmed when the sample was run by EPA 8260B.
- D-08 Results in the diesel organics range are primarily due to overlap from a gasoline range product.
- 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

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Project: Tiki + Circle K
 Project Number: 61994.01
 Project Manager: Cathy Bohlke

Reported:
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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
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Batch 5F29056: Prepared 06/29/05 Using EPA 5030B (P/T)

Blank (5F29056-BLK1)

Methyl tert-butyl ether	ND	1.00	ug/l							
Surrogate: 1,2-DCA-d4	23.7		"	20.0		118	70-130			
Surrogate: Toluene-d8	19.0		"	20.0		95.0	70-130			
Surrogate: 4-BFB	22.3		"	20.0		112	70-130			

LCS (5F29056-BS1)

Methyl tert-butyl ether	29.7	1.00	ug/l	30.0		99.0	80-120			
Surrogate: 1,2-DCA-d4	24.0		"	20.0		120	70-130			
Surrogate: Toluene-d8	19.2		"	20.0		96.0	70-130			
Surrogate: 4-BFB	23.0		"	20.0		115	70-130			

LCS Dup (5F29056-BSD1)

Methyl tert-butyl ether	27.6	1.00	ug/l	30.0		92.0	80-120	7.33	20	
Surrogate: 1,2-DCA-d4	22.0		"	20.0		110	70-130			
Surrogate: Toluene-d8	19.1		"	20.0		95.5	70-130			
Surrogate: 4-BFB	24.1		"	20.0		120	70-130			

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EA Engineering, Science and Technology 12011 Bellevue Redmond Rd Suite # 200 Bellevue, WA/USA 98005	Project: Tiki + Circle K Project Number: 61994.01 Project Manager: Cathy Bohlke	Reported: 07/08/05 15:28
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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
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Batch 5F27021: Prepared 06/27/05 Using EPA 3520C

Blank (5F27021-BLK1)

Diesel Range Hydrocarbons	ND	0.250	mg/l							
Lube Oil Range Hydrocarbons	ND	0.500	"							
Surrogate: 2-FBP	0.162		"	0.250		64.8	50-150			
Surrogate: Octacosane	0.247		"	0.250		98.8	50-150			

LCS (5F27021-BS1)

Diesel Range Hydrocarbons	1.90	0.250	mg/l	2.00		95.0	58-125			
Surrogate: 2-FBP	0.201		"	0.250		80.4	50-150			

LCS Dup (5F27021-BSD1)

Diesel Range Hydrocarbons	1.86	0.250	mg/l	2.00		93.0	58-125	2.13	40	
Surrogate: 2-FBP	0.170		"	0.250		68.0	50-150			

Duplicate (5F27021-DUP1)

Source: B5F0578-01

Diesel Range Hydrocarbons	0.747	0.250	mg/l		0.749			0.267	40	
Lube Oil Range Hydrocarbons	ND	0.500	"		ND			NA	40	
Surrogate: 2-FBP	0.157		"	0.236		66.5	50-150			
Surrogate: Octacosane	0.232		"	0.236		98.3	50-150			

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Project: Tiki + Circle K
 Project Number: 61994.01
 Project Manager: Cathy Bohlke

Reported:
 07/08/05 15:28

**Gasoline Hydrocarbons (Benzene to Naphthalene), BTEX and MTBE 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 5F28029: Prepared 06/28/05 Using EPA 5030B (P/T)

Matrix Spike Dup (5F28029-MSD1)

Source: B5F0578-01

Benzene	26.2	1.00	ug/l	27.7	2.01	87.3	46-130	1.54	40	
Toluene	142	1.00	"	150	3.18	92.5	60-124	2.14	40	
Ethylbenzene	36.4	1.00	"	34.2	2.48	99.2	56-141	1.66	40	
Xylenes (total)	175	2.00	"	175	6.34	96.4	66-132	1.73	40	
Methyl tert-butyl ether	51.2	2.00	"	43.7	ND	117	53-143	4.60	40	
Surrogate: 4-BFB (PID)	62.0		"	60.0		103	68-140			

Batch 5F29016: Prepared 06/29/05 Using EPA 5030B (P/T)

Blank (5F29016-BLK1)

Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Surrogate: 4-BFB (FID)	41.2		"	60.0		68.7	58-144			

LCS (5F29016-BS1)

Gasoline Range Hydrocarbons	1200	50.0	ug/l	1000		120	80-120			
Surrogate: 4-BFB (FID)	52.3		"	60.0		87.2	58-144			

LCS Dup (5F29016-BSD1)

Gasoline Range Hydrocarbons	1190	50.0	ug/l	1000		119	80-120	0.837	25	
Surrogate: 4-BFB (FID)	52.4		"	60.0		87.3	58-144			

Matrix Spike (5F29016-MS1)

Source: B5F0655-01

Gasoline Range Hydrocarbons	1240	50.0	ug/l	1000	ND	124	58-129			
Surrogate: 4-BFB (FID)	53.8		"	60.0		89.7	58-144			

Matrix Spike Dup (5F29016-MSD1)

Source: B5F0655-01

Gasoline Range Hydrocarbons	1190	50.0	ug/l	1000	ND	119	58-129	4.12	25	
Surrogate: 4-BFB (FID)	52.8		"	60.0		88.0	58-144			

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Project: Tiki + Circle K
 Project Number: 61994.01
 Project Manager: Cathy Bohlke

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**Gasoline Hydrocarbons (Benzene to Naphthalene), BTEX and MTBE 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 5F28029: Prepared 06/28/05 Using EPA 5030B (P/T)

Blank (5F28029-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)	62.9		"	60.0		105	68-140			

LCS (5F28029-BS1)

Benzene	12.5	0.500	ug/l	13.8		90.6	80-120			
Toluene	70.2	0.500	"	75.0		93.6	80-120			
Ethylbenzene	17.7	0.500	"	17.1		104	80-120			
Xylenes (total)	86.3	1.00	"	87.5		98.6	80-120			
Methyl tert-butyl ether	23.6	1.00	"	21.8		108	75-125			
Surrogate: 4-BFB (PID)	60.6		"	60.0		101	68-140			

LCS Dup (5F28029-BSD1)

Benzene	12.3	0.500	ug/l	13.8		89.1	80-120	1.61	25	
Toluene	68.8	0.500	"	75.0		91.7	80-120	2.01	25	
Ethylbenzene	17.4	0.500	"	17.1		102	80-120	1.71	25	
Xylenes (total)	84.5	1.00	"	87.5		96.6	80-120	2.11	25	
Methyl tert-butyl ether	23.6	1.00	"	21.8		108	75-125	0.00	25	
Surrogate: 4-BFB (PID)	60.4		"	60.0		101	68-140			

Matrix Spike (5F28029-MS1)

Source: B5F0578-01

Benzene	25.8	1.00	ug/l	27.7	2.01	85.9	46-130			
Toluene	139	1.00	"	150	3.18	90.5	60-124			
Ethylbenzene	35.8	1.00	"	34.2	2.48	97.4	56-141			
Xylenes (total)	172	2.00	"	175	6.34	94.7	66-132			
Methyl tert-butyl ether	48.9	2.00	"	43.7	ND	112	53-143			
Surrogate: 4-BFB (PID)	62.6		"	60.0		104	68-140			

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Project: Tiki + Circle K
 Project Number: 61994.01
 Project Manager: Cathy Bohlke

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CK-MW15 (B5F0578-01) Water Sampled: 06/23/05 10:15 Received: 06/23/05 14:40									
Methyl tert-butyl ether	ND	1.00	ug/l	1	5F29056	06/29/05	06/29/05	EPA 8260B	
Surrogate: 1,2-DCA-d4	108 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.5 %	70-130			"	"	"	"	
Surrogate: 4-BFB	106 %	70-130			"	"	"	"	
CK-MW13 (B5F0578-03) Water Sampled: 06/23/05 12:30 Received: 06/23/05 14:40									
Methyl tert-butyl ether	ND	50.0	ug/l	50	5F29056	06/29/05	06/29/05	EPA 8260B	
Surrogate: 1,2-DCA-d4	75.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.0 %	70-130			"	"	"	"	
Surrogate: 4-BFB	103 %	70-130			"	"	"	"	
CK-MW13D (B5F0578-04) Water Sampled: 06/23/05 12:35 Received: 06/23/05 14:40									
Methyl tert-butyl ether	ND	50.0	ug/l	50	5F29056	06/29/05	06/29/05	EPA 8260B	
Surrogate: 1,2-DCA-d4	91.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-BFB	103 %	70-130			"	"	"	"	

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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
CK-MW15 (B5F0578-01) Water Sampled: 06/23/05 10:15 Received: 06/23/05 14:40									
Diesel Range Hydrocarbons	0.749	0.250	mg/l	1	5F27021	06/27/05	06/28/05	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	70.6 %	50-150			"	"	"	"	
Surrogate: Octacosane	98.3 %	50-150			"	"	"	"	
CK-MW9 (B5F0578-02) Water Sampled: 06/23/05 11:10 Received: 06/23/05 14:40									
Diesel Range Hydrocarbons	1.81	0.250	mg/l	1	5F27021	06/27/05	06/28/05	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	74.4 %	50-150			"	"	"	"	
Surrogate: Octacosane	93.7 %	50-150			"	"	"	"	
CK-MW13 (B5F0578-03) Water Sampled: 06/23/05 12:30 Received: 06/23/05 14:40									
Diesel Range Hydrocarbons	3.72	0.250	mg/l	1	5F27021	06/27/05	06/28/05	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	87.9 %	50-150			"	"	"	"	
Surrogate: Octacosane	94.2 %	50-150			"	"	"	"	
CK-MW13D (B5F0578-04) Water Sampled: 06/23/05 12:35 Received: 06/23/05 14:40									
Diesel Range Hydrocarbons	3.01	0.250	mg/l	1	5F27021	06/27/05	06/29/05	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	97.5 %	50-150			"	"	"	"	
Surrogate: Octacosane	96.2 %	50-150			"	"	"	"	
CK-MW4 (B5F0578-05) Water Sampled: 06/23/05 13:40 Received: 06/23/05 14:40									
Diesel Range Hydrocarbons	1.87	0.250	mg/l	1	5F27021	06/27/05	06/29/05	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	77.1 %	50-150			"	"	"	"	
Surrogate: Octacosane	102 %	50-150			"	"	"	"	

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Project: Tiki + Circle K
 Project Number: 61994.01
 Project Manager: Cathy Bohlke

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CK-MW4 (B5F0578-05) Water Sampled: 06/23/05 13:40 Received: 06/23/05 14:40									
Benzene	240	25.0	ug/l	50	5F28029	06/28/05	06/28/05	NWTPH-G/8021B	
Toluene	3750	25.0	"	"	"	"	"	"	
Ethylbenzene	1640	25.0	"	"	"	"	"	"	
Xylenes (total)	10700	50.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	50.0	"	"	"	"	"	"	
Surrogate: 4-BFB (PID)	110 %	68-140			"	"	"	"	
CK-MW4 (B5F0578-05RE1) Water Sampled: 06/23/05 13:40 Received: 06/23/05 14:40									
Gasoline Range Hydrocarbons	65600	2500	ug/l	50	5F29016	06/29/05	06/29/05	NWTPH-G/8021B	
Surrogate: 4-BFB (FID)	82.3 %	58-144			"	"	"	"	
CK-MW-TB (B5F0578-06) Water Sampled: 06/23/05 12:00 Received: 06/23/05 14:40									
Benzene	ND	0.500	ug/l	1	5F28029	06/28/05	06/28/05	NWTPH-G/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)	107 %	68-140			"	"	"	"	
CK-MW-TB (B5F0578-06RE1) Water Sampled: 06/23/05 12:00 Received: 06/23/05 14:40									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	5F29016	06/29/05	06/30/05	NWTPH-G/8021B	
Surrogate: 4-BFB (FID)	68.7 %	58-144			"	"	"	"	

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EA Engineering, Science and Technology 12011 Bellevue Redmond Rd Suite # 200 Bellevue, WA/USA 98005	Project: Tiki + Circle K Project Number: 61994.01 Project Manager: Cathy Bohlke	Reported: 07/08/05 15:28
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Gasoline Hydrocarbons (Benzene to Naphthalene), BTEX and MTBE by NWTPH-G and EPA 8021B
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Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
CK-MW13 (B5F0578-03RE1) Water Sampled: 06/23/05 12:30 Received: 06/23/05 14:40									
Benzene	8560	250	ug/l	500	5F28029	06/28/05	06/28/05	NWTPH-G/8021B	
Toluene	16800	250	"	"	"	"	"	"	
Ethylbenzene	1920	250	"	"	"	"	"	"	
Xylenes (total)	12900	500	"	"	"	"	"	"	
Surrogate: 4-BFB (PID)	104 %	68-140			"	"	"	"	
CK-MW13 (B5F0578-03RE2) Water Sampled: 06/23/05 12:30 Received: 06/23/05 14:40									
Gasoline Range Hydrocarbons	115000	25000	ug/l	500	5F29016	06/29/05	06/29/05	NWTPH-G/8021B	
Surrogate: 4-BFB (FID)	73.8 %	58-144			"	"	"	"	
CK-MW13D (B5F0578-04) Water Sampled: 06/23/05 12:35 Received: 06/23/05 14:40									
Methyl tert-butyl ether	ND	10.0	ug/l	10	5F28029	06/28/05	06/28/05	NWTPH-G/8021B	A-01
Surrogate: 4-BFB (PID)	108 %	68-140			"	"	"	"	
CK-MW13D (B5F0578-04RE1) Water Sampled: 06/23/05 12:35 Received: 06/23/05 14:40									
Benzene	8560	250	ug/l	500	5F28029	06/28/05	06/28/05	NWTPH-G/8021B	
Toluene	16900	250	"	"	"	"	"	"	
Ethylbenzene	1880	250	"	"	"	"	"	"	
Xylenes (total)	12700	500	"	"	"	"	"	"	
Surrogate: 4-BFB (PID)	106 %	68-140			"	"	"	"	
CK-MW13D (B5F0578-04RE2) Water Sampled: 06/23/05 12:35 Received: 06/23/05 14:40									
Gasoline Range Hydrocarbons	121000	25000	ug/l	500	5F29016	06/29/05	06/29/05	NWTPH-G/8021B	
Surrogate: 4-BFB (FID)	73.5 %	58-144			"	"	"	"	

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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.

Amar Gill, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network