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11 May 2006
61994.01 LN0014

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DEPT OF ECOLOGY

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

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

Dear Mr. Nye:

This letter provides a short summary of the results from the groundwater sampling event conducted on 14 February 2006 at Circle K Station #1461, in the Montlake area of Seattle.

1.0 FIELD ACTIVITIES

On 14 February 2006, EA Engineering, Science and Technology, Inc. (EA) personnel gauged all monitoring wells at the site for the presence of free product. Free product was measured in well MW-4 and MW-9 at a thickness of 0.02 ft. Less than 0.01 ft of product (trace) was measured in MW-7, MW-8, MW-10, MW -13, MW-14 and MW-16. "Trace" product measurements are not reliable, and may or may not be an indicator of free product in wells. Free product was not observed in MW-6, MW-11 or MW-15.

EA collected groundwater samples from MW-6, MW-8, MW-11, MW-13, MW-14, MW-15, and MW-16, as required in the Sampling and Analysis Plan (SAP) using a peristaltic pump and low-flow sampling procedures. Wells with 0.02 ft or more of free product were not sampled. The tubing intake was generally placed mid-screen or approximately four feet off the bottom of the well.

A peristaltic pump was used to purge groundwater at a rate of 300-500 milliliters per minute. Groundwater quality parameters were measured every three minutes during purging until parameters stabilized. Groundwater samples were then collected. A duplicate sample was collected from MW-8 (CK-MW8D). Table 1 summarizes monitoring well construction information, water level measurements, and field parameter measurements obtained after the readings stabilized. A site map with monitoring well locations is attached as Figure 1.

In accordance with the SAP, groundwater samples were collected for laboratory analysis. The analyses conducted were diesel range organics (DRO); lube oil range organics (LRO); gasoline range organics (GRO); benzene, toluene, ethylbenzene, and xylenes (BTEX); and lead. Groundwater purged during monitoring well sampling was contained in a 50-gallon drum onsite within the fenced enclosure at the rear of the Jays Cleaners/Mont's Market building.

On 22 March 2006, elevations of site monitoring wells were surveyed by INCA Engineers. Additional site features were also surveyed to aid in the preparation of a site map. Minor corrections were made to

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6 of the 11 monitoring well elevations listed on Table 1. The largest change of 0.02 feet was recorded for wells MW-11 and MW-15.

2.0 GROUNDWATER MONITORING RESULTS

Analytical results for the groundwater samples from MW-14 and MW-16 were below the laboratory detection limits for all analytes. The lead results for the sample from MW-11 of 0.0158 mg/L slightly exceeded the Method A cleanup criteria of 0.015 mg/L. Other analytes were not detected in the sample. Contaminant concentrations detected in groundwater samples collected from MW8 and MW-13 exceeded Method A cleanup criteria for DRO, GRO, and BTEX constituents. Detected concentrations of GRO and some BTEX constituents in groundwater samples from MW-6 and MW-15 did not exceed Method A cleanup criteria.

Analytical results for groundwater samples are attached and are summarized in Table 2. Following is a general discussion of the findings.

3.0 DISCUSSION AND CONCLUSIONS

Using the revised elevations of the on site wells, the groundwater surface was contoured. The results do not suggest a strong groundwater gradient, in fact, it appears that groundwater flows into the area around MW-6. Removing MW-6 from the contour map does not change this general result. We have attached an approximated, freehand sketch of the suspected groundwater gradient (Figure 1).

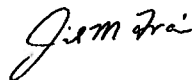
During the February sampling event, DRO and GRO contamination exceeding the MTCA Method A cleanup limits was found in wells MW-8, MW-13 and MW-15. Due to the presence of free product in MW-4 and MW-9, it can be presumed that groundwater concentrations in these wells also exceed the cleanup limits. In general, it appears that the contamination at the Montlake Circle K Site remains within the same wells, at approximately the same concentrations as in prior sampling events. The only exception was a decline (by approximately 60%) of benzene and toluene concentrations in MW-13.

Based on these results, and the fact that the groundwater appears not to be migrating, we recommend discontinuing sampling at MW-11, MW-16 and MW-14. Petroleum contamination has not been detected in any of these wells during sampling by EA, or by other contractors during prior sampling events. We do recommend sampling MW-10 during the next quarterly sampling round as a means to bound contamination on the east.

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

Attachments:

Figure 1 – Site Map with Groundwater Elevations and Flow Direction – Montlake Circle K

Table 1 – Monitoring Well Construction and Field Measurement Data

Table 2 – Summary of Groundwater Analytical Data

Attachment A – Purge and Sampling Forms

Attachment B – Laboratory Reports

Figures

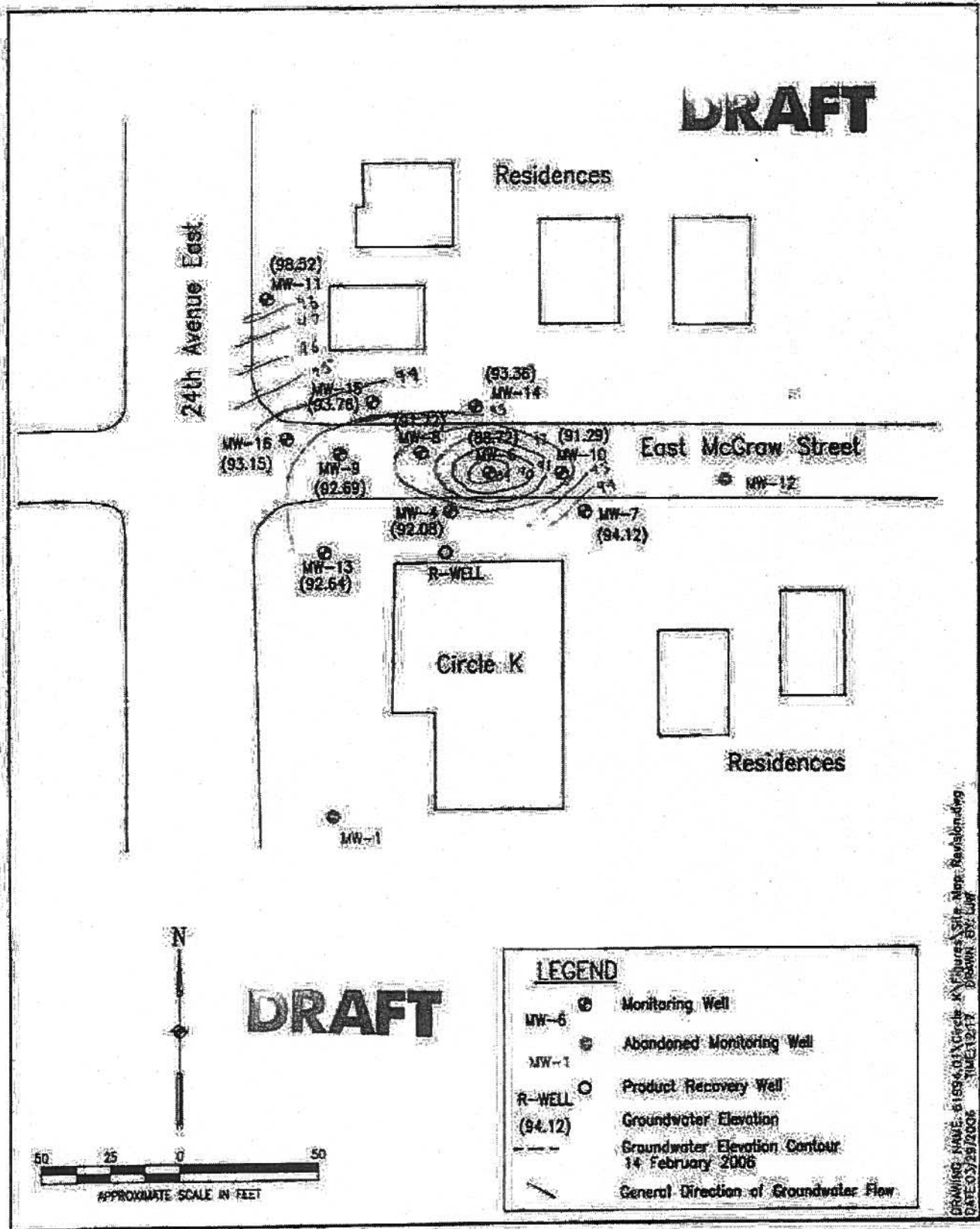


Figure 1. Site Map with Groundwater Elevations and Flow Direction - Montlake Circle K



Tables

TABLE 1. CIRCLE K STATION #1461

Well ID	Date Installed	Well Diameter (inches)	Reported Screen Depth (ft bgs)	Measured Total Depth 14-Feb-06 (ft btoc)	Top of Casing Elevation (ft)	Depth to Water 14-Feb-06 (ft btoc)	Depth to Product 14-Feb-06 (ft btoc)	Groundwater Elevation 14-Feb-06 (ft)
MW-4	9/12/1989	2	4 - 18.5	17.90	100.73	8.65	8.63	92.1*
MW-6	10/2/1989	2	5 - 20	20.44	100.24	11.52	NA	88.72
MW-7	10/2/1989	2	5 - 20	20.49	99.75	5.63	trace	94.12
MW-8	10/3/1989	2	5 - 20	19.45	100.70	8.98	trace	91.72
MW-9	10/3/1989	2	5 - 21	20.35	101.41	8.72	8.70	92.71*
MW-10	10/3/1989	2	5 - 20	20.47	99.96	8.67	trace	91.29
MW-11	10/4/1989	2	5 - 20	20.31	100.89	2.37	NA	98.52
MW-12	10/4/1989	2	5 - 20	abandoned	abandoned	NA	NA	NA
MW-13	12/20/1989	2	4 - 19	18.81	102.19	9.55	trace	92.64
MW-14	12/20/1989	2	4 - 19	18.87	100.40	7.04	7.04	93.36
MW-15	12/21/1989	2	4 - 18.5	16.81	101.29	7.53	NA	93.76
MW-16	12/21/1989	2	4 - 19	18.94	101.15	8.00	trace?	93.15

Water Quality Parameters							
Well ID	Date Measured	pH	Conductivity (mS/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	Temperature (°C)	Oxidation-Reduction Potential (mV)
MW-6	2/14/2006	6.75	0.438	45	0.94	12.0	-77
MW-8	2/14/2006	6.11	0.388	8	0.29	12.8	-55
MW-11	2/14/2006	5.31	0.093	13	0.27	11.4	6
MW-13	2/14/2006	6.16	0.406	1	0.38	12.9	-84
MW-14	2/14/2006	6.18	0.292	18	0.42	11.9	111
MW-15	2/14/2006	4.92	0.110	9	1.07	11.3	233
MW-16	2/14/2006	6.09	0.329	19	1.45	12.7	95

NOTES:

°C = degrees Celsius.

ft bgs = feet below ground surface.

ft btoc = feet below top of casing.

NA = Not applicable.

NTUs = Nephelometric turbidity units.

mS/cm = milliSiemens per centimeter.

mg/L = milligrams per liter.

mV = millivolts

TABLE 2. 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)	Free Product
CK-MW-4	4/11/2001	7,370	28,000	2,680	17,100	117,000	NA	NA	NA	NA	Yes
	6/23/2005	240	3,750	1,640	10,700	65,600	1,870 D-08	500 U	50.0 U	NA	?
	2/14/2006	Not Sampled - Free product measured in well									
CK-MW-6	4/11/2001	0.5 U	0.5 U	0.5 U	1.0 U	0.05 U	NA	NA	1.0 U	NA	No
	6/16/2003	0.5 U	0.5 U	0.5 U	1.0 U	1.0 U	NA	NA	NA	NA	No
	2/14/2006	0.982	0.5 U	3.84	7.13	67.5	243 U	485 U	NA	0.001 U	No
CK-MW-8	4/11/2001	802	9770	1520	7030	46,400	NA	NA	NA	NA	Yes
	2/14/2006	342	143,000	2,670	14,800	102,000	2,390 D-08	472 U	NA	NA	Yes
	2/14/2006 Dup	452	14,000	2,770	14,900	89,000	2,230 D-08	472 U	NA	NA	?
CK-MW-9	4/11/2001	420	2,310	1,500	7,350	35,400	NA	NA	NA	NA	Yes
	6/23/2005	1,820	6,140	1,820	9,350	71,300	1,810 D-08	500 U	200 U	NA	?
	2/14/2006	Not Sampled - Free product measured in well									
CK-MW-11	4/11/2001	0.5 U	0.5 U	0.5 U	1.0 U	0.05 U	NA	NA	1.0 U	NA	No
	6/16/2003	0.5 U	0.5 U	0.5 U	1.0 U	0.05 U	NA	NA	NA	NA	No
	2/14/2006	0.5 U	0.5 U	0.5 U	1.0 U	0.05 U	240 U	481 U	NA	0.01580	No
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	No
	6/23/2005 Dup	8,560	16,900	1,880	12,700	121,000	3,010 D-08	500 U	50.0 U	NA	No
	2/14/2006	2,270	6,660	1,530	14,100	74,700	3,010 D-08	472 U	NA	NA	?
CK-MW-14	4/11/2001	0.5 U	0.5 U	0.5 U	1.0 U	0.05 U	NA	NA	1.0 U	NA	No
	6/16/2003	0.5 U	0.5 U	0.5 U	1.0 U	1.0 U	NA	NA	NA	NA	No
	2/14/2006	0.5 U	0.5 U	0.5 U	1.0 U	0.05 U	243 U	485 U	NA	0.001 U	?
CK-MW-15	4/11/2001	58.4	310.0	526.0	2,920.0	23,800	NA	NA	NA	NA	No
	6/16/2003	6.2	83.3	12.6	199.0	3,150	NA	NA	15.5	NA	No
	5/31/2005	1.26	0.500 U	2.60 I-06	3.39 I-06	878	NA	NA	1.00 U	0.001 U	No
	6/23/2005	2.01	3.18	2.48	6.34	950	749 D-08	500 U	1.00 U	NA	No
	2/14/2006	0.5 U	0.5 U	0.5 U	1.0 U	137,000	236 U	472 U	NA	0.001 U	No
CK-MW-16	4/11/2001	0.5 U	0.5 U	0.5 U	1.0 U	0.05 U	NA	NA	NA	NA	No
	6/16/2003	0.5 U	0.5 U	0.5 U	1.0 U	0.05 U	NA	NA	1.0 U	NA	No
	2/14/2006	0.5 U	0.5 U	0.5 U	1.0 U	50,000 U	236 U	472 U	NA	0.001 U	?
MTCA Method A		5	1,000	700	1,000	800/1,000	500	500	20	0.015	

NOTES:

Sample results from 2001 and 2003 provided by Washington Department of Ecology

Shaded cells indicate the results exceed the cleanup criteria.

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

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

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.

DRO = Diesel range organics.

GRO = Gasoline range organics.

LRO = Lube-oil range organics.

ug/L = micrograms per liter.

mg/L - milligrams per liter

NA = not analyzed

? = "trace" product <0.01 ft free product in well

Attachment A
Purge and Sampling Forms



Ground Water Purge and Sampling Form

Well Identification <u>11W-6</u>	Site Location: <u>Montlake (K)</u>	Date: <u>2/14/06</u>	
Well Diameter (inches) <u>2"</u>	Project Number: <u>61994.01</u>	Personnel: <u>MBB</u>	
Well Monument Locked and Good Condition? <u>13.41</u>	Purge Method: <input checked="" type="checkbox"/> Low Flow	<input type="checkbox"/> Conventional	<input type="checkbox"/> None
Inside Well Head and Outside Well Casing (D=dry), (WAC=Water above Casing), WBC=Water Below Casing) <u>13.41</u>	Purge Equipment: <input checked="" type="checkbox"/> Peristaltic Pump	<input type="checkbox"/> Redi-flo Pump	<input type="checkbox"/> Other
Well Casing Plug Locked and Good Condition? <u>yes</u>	Sampling Equipment: <input checked="" type="checkbox"/> Peristaltic Pump	<input type="checkbox"/> Redi-flo Pump	<input type="checkbox"/> Bailer
Depth to Ground water (ft btoc) <u>2833</u>	Weather Conditions: <u>Overcast 39°F</u>		
Well Total Depth (ft btoc) <u>26.16 + 28</u>	Well Volume Calculation: 2"=.16, 4"=.64, 6"=1.44 gallons		
Time	<u>0843</u>	<u>0849</u>	<u>0852</u>
Depth to Ground water (ft btoc)	<u>11.52</u>	<u>12.51</u>	<u>12.76</u>
Total Groundwater Purged (gallons, liters, other)	<u>400</u>	<u>350</u>	<u>350</u>
Purge Rate (gpm, ft ³ /min (ml/min, other))	<u>6.74</u>	<u>6.77</u>	<u>6.76</u>
pH	<u>4.49</u>	<u>4.47</u>	<u>4.43</u>
Conductivity (mS/cm)	<u>57</u>	<u>64</u>	<u>68</u>
Turbidity (NTU)	<u>0.87</u>	<u>0.47</u>	<u>0.87</u>
Dissolved Oxygen (mg/L)	<u>11.6</u>	<u>11.8</u>	<u>12.0</u>
Temperature (°C)	<u>-25</u>	<u>-71</u>	<u>-76</u>
ORP/eH (mV)	<u>clear w/ orange suspended solids.</u>	<u>orange suspended solids.</u>	<u>orange suspended solids.</u>
Color of Purged Water (gray, brown, red, clear)	Analysis		
Sample Identification: <u>CK - MW6</u>	3 <input checked="" type="checkbox"/> NWTTPH-G/BTEX by 8021b		
Time Sampled: <u>0900</u>	2 <input checked="" type="checkbox"/> NWTTPH-Dx		
Purge water disposed To: <u>Drain Onsite</u>	1 <input checked="" type="checkbox"/> Total Lead Field Filtered.		
	Sample Identification: <u>CK - MW6</u>		
	Time Sampled: <u>0900</u>		
	Purge water disposed To: <u>Drain Onsite</u>		
	Comments: <u>No pluck measured</u>		
	<u>Tabing pulled up 4' from bottom of well</u>		
	MTBE/EDC by 8260		
	EDB by 8011		



Ground Water Purge and Sampling Form

Well Identification	MW-8	Site Location: Circle K	Date: 2/14/06	
Well Diameter (inches)	2"	Project Number: 61994.01	Personnel: MBB	
Well Monument Locked and Good Condition?	yes	Purge Method: <input checked="" type="checkbox"/> Low Flow	<input type="checkbox"/> Conventional	<input type="checkbox"/> None
Inside Well Head and Outside Well Casing (ID=dry), (WAC=Water above Casing), WBC=Water Below Casing)	WBC	Purge Equipment: <input checked="" type="checkbox"/> Peristaltic Pump	<input type="checkbox"/> Redi-flo Pump	<input type="checkbox"/> Other
Well Casing Plug Locked and Good Condition?	yes	Sampling Equipment: <input checked="" type="checkbox"/> Peristaltic Pump	<input type="checkbox"/> Redi-flo Pump	<input type="checkbox"/> Bailer
Depth to Ground water (ft btoc) DTP = 8.48	8.985	Weather Conditions: Overcast/Sunny ~ 42°F		
Well Total Depth (ft btoc) 19.17 + .23	19.45	Well Volume Calculation: 2"=.16, 4"=.64, 6"=1.44 gallons		

Time	1320	1323	1326	1329	1332			
Depth to Ground water (ft btoc)	—	—	—	—	—	—	—	—
Total Groundwater Purged (gallons, liters, other)	400	—	—	—	2.0	—	—	—
Purge Rate (gpm, ft ³ /min, ml/min, other)	6.11	6.11	6.10	6.10	6.11	—	—	—
pH	7.30	7.31	7.38	7.38	7.38	—	—	—
Conductivity (mS/cm)	2	3	4	3	8	—	—	—
Turbidity (NTU)	1.08	0.62	0.42	0.38	0.29	—	—	—
Dissolved Oxygen (mg/L)	12.8	12.8	12.8	12.8	12.8	—	—	—
Temperature (°C)	-62	-58	-55	-55	-55	—	—	—
ORP/eH (mV)	clear	—	—	—	—	—	—	—
Color of Purged Water (gray, brown, red, clear)	clear	—	—	—	—	—	—	—

Sample Identification: C(L-MW8)/C(L-MW8D) Analysis

Time Sampled: (1340) (1350) 67

Purge water disposed To: Drum onsite # Total Lead

DWP collected

Comments: - Fugate used tubing
 - Tubing pulled off of AC's
 - Water smells of AC's.

MTBE/EDC by 8260
 EDB by 8011



Ground Water Purge and Sampling Form

Well Identification	MUV-11									
Well Diameter (inches)	2"									
Well Monument Locked and Good Condition?	No									
Inside Well Head and Outside Well Casing (D=dry), (WAC=Water above Casing), WBC=Water Below Casing)	WBC									
Well Casing Plug Locked and Good Condition?	Yes									
Depth to Ground water (ft btoc)	No Groundwater									
Well Total Depth (ft btoc)	20.03 + 2.5									
Time	1118	1121	1124	1127	1130					
Depth to Ground water (ft btoc)	—	2.47	—	2.47	2.48					
Total Groundwater Purged (gallons) liters, other)				2.0	2.1					
Purge Rate (gpm, ft ³ /min, ml/min, other)	350									
pH	5.29	5.29	5.30	5.30	5.31					
Conductivity (mS/cm)	.093	.093	.094	.093	.093					
Turbidity (NTU)	23	18	18	15	13					
Dissolved Oxygen (mg/L)	0.84	0.61	0.62	0.33	0.27					
Temperature (°C)	11.9	11.8	11.6	11.4	11.4					
ORP/eH (mV)	33	22	15	7	6					
Color of Purged Water (gray, brown, red, (clear))										

Site Location: Circle K Date: 2/14/06

Project Number: 61994.01 Personnel: MBB

Purge Method: Low Flow Conventional None

Purge Equipment: Peristaltic Pump Redi-flo Pump Other

Sampling Equipment: Peristaltic Pump Redi-flo Pump Bailor

Weather Conditions: Overcast/sunny, ~40°F.

Well Volume Calculation: 2"=.16, 4"=.64, 6"=1.44 gallons

Sample Identification: C K - new #1	Analysis	3	X	NWT PH-G/BTEX by 8021b	MTBE/EDC by 8260
Time Sampled: 1140		2	X	NWT PH-Dx	EDB by 8011
Purge water disposed To: Drum onsite		1	X	Total Lead	

Comments: - Tubing pulled 4' off bottom of well.
- Installed ded. tubing.



Ground Water Purge and Sampling Form

Well Identification	Site Location: Circle K		Date: 2/14/06		
Well Diameter (inches)	Project Number: 61994.01		Personnel: MBB		
Well Monument Locked and Good Condition?	Purge Method: <input checked="" type="checkbox"/> Low Flow		<input type="checkbox"/> Conventional	<input type="checkbox"/> None	
Inside Well Head and Outside Well Casing (D=dry), (WAC=Water above Casing), WBC=Water Below Casing)	Purge Equipment: <input type="checkbox"/> Peristaltic Pump		<input type="checkbox"/> Redi-flo Pump	<input type="checkbox"/> Other	
Well Casing Plug Locked and Good Condition?	Sampling Equipment: <input checked="" type="checkbox"/> Peristaltic Pump		<input type="checkbox"/> Redi-flo Pump	<input type="checkbox"/> Bailer	
Depth to Ground water (ft btoc)	Weather Conditions: Overcast, ~40°F				
Well Total Depth (ft btoc)	Well Volume Calculation: 2"=.16, 4"=.64, 6"=1.44 gallons				
Time	1415	1418	1421	1424	1427
Depth to Ground water (ft btoc)	9.59	10.67	—	10.79	11.80
Total Groundwater Purged (gallons, liters, other)	400				1.5
Purge Rate (gpm, ft ³ /min, ml/min, other)	6.15	6.14	6.15	6.15	6.16
pH	7.408	7.408	7.406	7.405	7.406
Conductivity (mS/cm)	4	0	0	1	1
Turbidity (NTU)	0.80	0.70	0.57	0.36	0.38
Dissolved Oxygen (mg/L)	12.9	12.6	12.8	12.8	12.9
Temperature (°C)	8.5	8.4	8.4	8.4	8.4
ORP/eH (mV)					
Color of Purged Water (gray, brown, red, clear)					

Sample Identification: Circle K NW13
 Time Sampled: 1430
 Purge water disposed To: Drum Onsite Total Lead

Analysis
 3 NWTTPH-G/BTEX by 8021b MTBE/EDC by 8260
 2 NWTTPH-Dx EDB by 8011

Comments: - Depth to water 9.55'
 - Tubing pulled up 5" from well
 - Water smells strong HC etc
 - Taken on water.



Ground Water Purge and Sampling Form

Well Identification	MW-14		Site Location:	C/K/c K		Date:	3/14/06	
Well Diameter (inches)	2"		Project Number:	61994.01		Personnel:	MBB	
Well Monument Locked and Good Condition?	yes		Purge Method:	<input checked="" type="checkbox"/> Low Flow		<input type="checkbox"/> Conventional		<input type="checkbox"/> None
Inside Well Head and Outside Well Casing (D=dry), (WAC=Water above Casing), WBC=Water Below Casing)	WBC		Purge Equipment:	<input checked="" type="checkbox"/> Peristaltic Pump		<input type="checkbox"/> Redi-flo Pump		<input type="checkbox"/> Other
Well Casing Plug Locked and Good Condition?	no		Sampling Equipment:	<input checked="" type="checkbox"/> Peristaltic Pump		<input type="checkbox"/> Redi-flo Pump		<input type="checkbox"/> Bailer
Depth to Ground water (ft btoc)	7.03		Weather Conditions:	Overcast, 34°F				
Well Total Depth (ft btoc)	18.87		Well Volume Calculation: 2"=.16, 4"=.64, 6"=1.44 gallons					
Time	09:44	09:47	09:50	09:53	09:56	10:59		
Depth to Ground water (ft btoc)	17.73		17.98		8.05	8.16		
Total Groundwater Purged (gallons, liters, other)						2.5		
Purge Rate (gpm, ft ³ /min, ml/min, other)	3.50		3.00		3.00	3.00		
pH	6.21	6.20	6.19	6.18	6.18	6.18		
Conductivity (mS/cm)	292	292	292	292	292	292		
Turbidity (NTU)	75	20	20	20/23	21/20	20/18		
Dissolved Oxygen (mg/L)	1.43	0.81	0.57	0.45	0.41	0.42		
Temperature (°C)	12.1	12.1	12.0	12.0	12.0	11.9		
ORP/eH (mV)	67	88	95	104	108	111		
Color of Purged Water (gray, brown, red, clear)	clear							

Sample Identification: C/K - MW/14

Time Sampled: 10:00

Purge water disposed To: Down Drains

Analysis: 3 NWTPH-G/BTEX by 8021b
 2 NWTPH-DX
 1 Total Lead Field Filtered

Comments: Taking initial 4' off bottom. MTBE/EDC by 8260 - Measured ← 0.1' off bottom in well
 EDB by 8011 No sheen or HC odor at



Ground Water Purge and Sampling Form

Well Identification	Mw-15		Site Location: Circle K	Date: 2/14/06
Well Diameter (inches)	2"		Project Number: 61994.01	Personnel: MBB
Well Monument Locked and Good Condition?	yes		Purge Method: <input checked="" type="checkbox"/> Low Flow	<input type="checkbox"/> Conventional <input type="checkbox"/> None
Inside Well Head and Outside Well Casing (D=dry), (WAC=Water above Casing, WBC=Water Below Casing)	1.6L		Purge Equipment: <input checked="" type="checkbox"/> Peristaltic Pump	<input type="checkbox"/> Redi-flo Pump <input type="checkbox"/> Other
Well Casing Plug Locked and Good Condition?	2.5P		Sampling Equipment: <input checked="" type="checkbox"/> Peristaltic Pump	<input type="checkbox"/> Redi-flo Pump <input type="checkbox"/> Bailer
Depth to Ground water (ft btoc)	No Pond - 1.6m		Weather Conditions: Overcast, ~35°F	
Well Total Depth (ft btoc)	16.53 + .28		Well Volume Calculation: 2"=.16, 4"=.64, 6"=1.44 gallons	

Time	10:30	10:33	10:36	10:39	10:42			
Depth to Ground water (ft btoc)	7.93			8.23	8.34			
Total Groundwater Purged (gallons, liters, other)	350				1.75			
Purge Rate (gpm, ft ³ /min, ml/min, other)	5.68	4.94	4.91	4.91	4.92			
pH	7.12	7.12	7.11	7.11	7.10			
Conductivity (mS/cm)	18	9	9	9	9			
Turbidity (NTU)	1.43	1.32	1.20	1.14	1.07			
Dissolved Oxygen (mg/L)	11.2	11.3	11.3	11.3	11.3			
Temperature (°C)	18.5	21.5	22.4	23.2	23.3			
ORP/eH (mV)								
Color of Purged Water (gray, brown, red, clear)								

Sample Identification: C1C-MV-15	Analysis	Comments: Tubing pulled 4' off bottom
Time Sampled: 10:50	3 <input checked="" type="checkbox"/> NWTPH-G/BTEX by 8021b	MTBE/EDC by 8260
Purge water disposed To: Drum Onsite	2 <input checked="" type="checkbox"/> NWTPH-Dx	EDB by 8011
	1 <input checked="" type="checkbox"/> Total Lead	



Ground Water Purge and Sampling Form

Well Identification	MUN-16									
Well Diameter (inches)	2"									
Well Monument Locked and Good Condition?	No									
Inside Well Head and Outside Well Casing (D=dry), (WAC=Water above Casing), WBC=Water Below Casing)	WAC									
Well Casing Plug Locked and Good Condition?	Satisfactory									
Depth to Ground water (ft btoc) $\Delta T_{btoc} + 7.995$	8.00'									
Well Total Depth (ft btoc) $(8.55 + 2.8)$	11.35'									
Time	12-09	12-12	12-15	12-18	12-21					
Depth to Ground water (ft btoc)	8.29	—	8.44	—	8.56					
Total Groundwater Purged (gallons, liters, other)					~ 1.75					
Purge Rate (gpm, ft ³ /min, (ml/min), other)	350									
pH	6.09	6.10	6.10	6.10	6.09					
Conductivity (mS/cm)	327	328	329	329	329					
Turbidity (NTU)	16	22/25	29	24	19					
Dissolved Oxygen (mg/L)	2.07	1.89	1.70	1.54	1.45					
Temperature (°C)	13.1	12.9	12.8	12.8	12.7					
ORP/eH (mV)	63	77	86	90	95					
Color of Purged Water (gray, brown, red, clear)										

Well Volume Calculation: 2"=1.6, 4"=.64, 6"=1.44 gallons

Site Location:	Circ K	Date:	2/14/06	
Project Number:	61994.01	Personnel:	MBB	
Purge Method:	<input checked="" type="checkbox"/> Low Flow	<input type="checkbox"/> Conventional	<input type="checkbox"/> None	
Purge Equipment:	<input checked="" type="checkbox"/> Peristaltic Pump	<input type="checkbox"/> Redi-flo Pump	<input type="checkbox"/> Other	
Sampling Equipment:	<input checked="" type="checkbox"/> Peristaltic Pump	<input type="checkbox"/> Redi-flo Pump	<input type="checkbox"/> Bailer	
Weather Conditions:	Overcast / Sunny ~ 40°F			

Comments: Frustrated to bring
Taking multiple dup of off site
No records observed

Sample Identification:	C.L.-M/L6	Analysis	3
Time Sampled:	12:30		
Purge water disposed To:	in onsite		

Comments: Frustrated to bring
Taking multiple dup of off site
No records observed

MTBE/EDC by 8260
EDB by 8011

Total Lead (Field Filtered)

[Signature]

Attachment B
Laboratory Reports



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
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907.563.9200 fax 907.563.9210

27 February 2006

Jill Frain
EA Engineering, Science and Technology
12011 NE 1st Street, Suite 100
Bellevue, WA/USA 98005
RE: Circle K

Enclosed are the results of analyses for samples received by the laboratory on 02/15/06 12:08. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kortland Orr
PM



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907.563.9200 fax 907.563.9210

EA Engineering, Science and Technology
12011 NE 1st Street, Suite 100
Bellevue, WA/USA 98005

Project: Circle K
Project Number: 61994.01
Project Manager: Jill Frain

Reported:
02/27/06 16:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CK-MW6	B6B0354-01	Water	02/14/06 09:00	02/15/06 12:08
CK-TB	B6B0354-02	Water	02/14/06 12:00	02/15/06 12:08
CK-MW14	B6B0354-03	Water	02/14/06 10:00	02/15/06 12:08
CK-MW15	B6B0354-04	Water	02/14/06 10:00	02/15/06 12:08
CK-MW11	B6B0354-05	Water	02/14/06 11:40	02/15/06 12:08
CK-MW16	B6B0354-06	Water	02/14/06 12:30	02/15/06 12:08
CK-MW8	B6B0354-07	Water	02/14/06 13:40	02/15/06 12:08
CK-MW8D	B6B0354-08	Water	02/14/06 13:50	02/15/06 12:08
CK-MW13	B6B0354-09	Water	02/14/06 14:30	02/15/06 12:08

North Creek Analytical - Bothell

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Kortland Orr, PM

North Creek Analytical, Inc.
Environmental Laboratory Network



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EA Engineering, Science and Technology
 12011 NE 1st Street, Suite 100
 Bellevue, WA/USA 98005

Project: Circle K
 Project Number: 61994.01
 Project Manager: Jill Frain

Reported:
 02/27/06 16:41

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
CK-MW6 (B6B0354-01) Water Sampled: 02/14/06 09:00 Received: 02/15/06 12:08									
Gasoline Range Hydrocarbons	67.5	50.0	ug/l	1	6B17020	02/17/06	02/17/06	NWTPH-Gx/8021B	
Benzene	0.982	0.500	"	"	"	"	"	"	"
Toluene	ND	0.500	"	"	"	"	"	"	"
Ethylbenzene	3.84	0.500	"	"	"	"	"	"	"
Xylenes (total)	7.13	1.00	"	"	"	"	"	"	"
Surrogate: 4-BFB (FID)	89.2 %	58-144			"	"	"	"	"
Surrogate: 4-BFB (PID)	101 %	68-140			"	"	"	"	"
CK-TB (B6B0354-02) Water Sampled: 02/14/06 12:00 Received: 02/15/06 12:08									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	6B17020	02/17/06	02/17/06	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	"
Toluene	ND	0.500	"	"	"	"	"	"	"
Ethylbenzene	ND	0.500	"	"	"	"	"	"	"
Xylenes (total)	ND	1.00	"	"	"	"	"	"	"
Surrogate: 4-BFB (FID)	88.7 %	58-144			"	"	"	"	"
Surrogate: 4-BFB (PID)	104 %	68-140			"	"	"	"	"
CK-MW14 (B6B0354-03) Water Sampled: 02/14/06 10:00 Received: 02/15/06 12:08									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	6B17020	02/17/06	02/17/06	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	"
Toluene	ND	0.500	"	"	"	"	"	"	"
Ethylbenzene	ND	0.500	"	"	"	"	"	"	"
Xylenes (total)	ND	1.00	"	"	"	"	"	"	"
Surrogate: 4-BFB (FID)	84.8 %	58-144			"	"	"	"	"
Surrogate: 4-BFB (PID)	100 %	68-140			"	"	"	"	"

North Creek Analytical - Bothell

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EA Engineering, Science and Technology
 12011 NE 1st Street, Suite 100
 Bellevue, WA/USA 98005

Project: Circle K
 Project Number: 61994.01
 Project Manager: Jill Frain

Reported:
 02/27/06 16:41

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
CK-MW15 (B6B0354-04) Water Sampled: 02/14/06 10:00 Received: 02/15/06 12:08									
Gasoline Range Hydrocarbons	137	50.0	ug/l	1	6B17020	02/17/06	02/18/06	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	89.0 %	58-144			"	"	"	"	
Surrogate: 4-BFB (PID)	96.8 %	68-140			"	"	"	"	
CK-MW11 (B6B0354-05) Water Sampled: 02/14/06 11:40 Received: 02/15/06 12:08									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	6B17020	02/17/06	02/18/06	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	86.7 %	58-144			"	"	"	"	
Surrogate: 4-BFB (PID)	104 %	68-140			"	"	"	"	
CK-MW16 (B6B0354-06) Water Sampled: 02/14/06 12:30 Received: 02/15/06 12:08									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	6B17020	02/17/06	02/18/06	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	86.7 %	58-144			"	"	"	"	
Surrogate: 4-BFB (PID)	102 %	68-140			"	"	"	"	

North Creek Analytical - Bothell

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Page 3 of 18



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Project: Circle K
 Project Number: 61994.01
 Project Manager: Jill Frain

Reported:
 02/27/06 16:41

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
CK-MW8 (B6B0354-07) Water Sampled: 02/14/06 13:40 Received: 02/15/06 12:08									
Gasoline Range Hydrocarbons	102000	25000	ug/l	500	6B17020	02/17/06	02/17/06	NWTPH-Gx/8021B	
Benzene	342	250	"	"	"	"	"	"	"
Toluene	14300	250	"	"	"	"	"	"	"
Ethylbenzene	2670	250	"	"	"	"	"	"	"
Xylenes (total)	14800	500	"	"	"	"	"	"	"
Surrogate: 4-BFB (FID)	89.8 %	58-144			"	"	"	"	"
Surrogate: 4-BFB (PID)	102 %	68-140			"	"	"	"	"
CK-MW8D (B6B0354-08) Water Sampled: 02/14/06 13:50 Received: 02/15/06 12:08									
Gasoline Range Hydrocarbons	89000	5000	ug/l	100	6B18015	02/18/06	02/19/06	NWTPH-Gx/8021B	
Benzene	452	50.0	"	"	"	"	"	"	"
Ethylbenzene	2770	50.0	"	"	"	"	"	"	"
Xylenes (total)	14900	100	"	"	"	"	"	"	"
Surrogate: 4-BFB (FID)	92.7 %	58-144			"	"	"	"	"
Surrogate: 4-BFB (PID)	103 %	68-140			"	"	"	"	"
CK-MW8D (B6B0354-08RE1) Water Sampled: 02/14/06 13:50 Received: 02/15/06 12:08									
Toluene	14000	250	ug/l	500	6B19002	02/19/06	02/19/06	NWTPH-Gx/8021B	
Surrogate: 4-BFB (PID)	104 %	68-140			"	"	"	"	"
CK-MW13 (B6B0354-09) Water Sampled: 02/14/06 14:30 Received: 02/15/06 12:08									
Gasoline Range Hydrocarbons	74700	5000	ug/l	100	6B17020	02/17/06	02/18/06	NWTPH-Gx/8021B	
Benzene	2270	50.0	"	"	"	"	"	"	"
Toluene	6660	50.0	"	"	"	"	"	"	"
Ethylbenzene	1530	50.0	"	"	"	"	"	"	"
Xylenes (total)	14100	100	"	"	"	"	"	"	"
Surrogate: 4-BFB (FID)	89.3 %	58-144			"	"	"	"	"
Surrogate: 4-BFB (PID)	101 %	68-140			"	"	"	"	"

North Creek Analytical - Bothell

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 12011 NE 1st Street, Suite 100
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Project: Circle K
 Project Number: 61994.01
 Project Manager: Jill Frain

Reported:
 02/27/06 16:41

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-MW6 (B6B0354-01) Water Sampled: 02/14/06 09:00 Received: 02/15/06 12:08									
Diesel Range Hydrocarbons	ND	0.243	mg/l	1	6B17045	02/17/06	02/20/06	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.485	"	"	"	"	"	"	
Surrogate: 2-FBP	53.1 %	50-150			"	"	"	"	
Surrogate: Octacosane	78.6 %	50-150			"	"	"	"	
CK-MW14 (B6B0354-03) Water Sampled: 02/14/06 10:00 Received: 02/15/06 12:08									
Diesel Range Hydrocarbons	ND	0.243	mg/l	1	6B17045	02/17/06	02/20/06	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.485	"	"	"	"	"	"	
Surrogate: 2-FBP	58.0 %	50-150			"	"	"	"	
Surrogate: Octacosane	74.1 %	50-150			"	"	"	"	
CK-MW15 (B6B0354-04) Water Sampled: 02/14/06 10:00 Received: 02/15/06 12:08									
Diesel Range Hydrocarbons	ND	0.236	mg/l	1	6B17045	02/17/06	02/20/06	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.472	"	"	"	"	"	"	
Surrogate: 2-FBP	67.4 %	50-150			"	"	"	"	
Surrogate: Octacosane	74.2 %	50-150			"	"	"	"	
CK-MW11 (B6B0354-05) Water Sampled: 02/14/06 11:40 Received: 02/15/06 12:08									
Diesel Range Hydrocarbons	ND	0.240	mg/l	1	6B17045	02/17/06	02/20/06	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.481	"	"	"	"	"	"	
Surrogate: 2-FBP	72.1 %	50-150			"	"	"	"	
Surrogate: Octacosane	72.9 %	50-150			"	"	"	"	
CK-MW16 (B6B0354-06) Water Sampled: 02/14/06 12:30 Received: 02/15/06 12:08									
Diesel Range Hydrocarbons	ND	0.236	mg/l	1	6B17045	02/17/06	02/20/06	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.472	"	"	"	"	"	"	
Surrogate: 2-FBP	58.9 %	50-150			"	"	"	"	
Surrogate: Octacosane	76.7 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Kortland Orr, PM

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EA Engineering, Science and Technology
 12011 NE 1st Street, Suite 100
 Bellevue, WA/USA 98005

Project: Circle K
 Project Number: 61994.01
 Project Manager: Jill Frain

Reported:
 02/27/06 16:41

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-MW8 (B6B0354-07) Water Sampled: 02/14/06 13:40 Received: 02/15/06 12:08									
Diesel Range Hydrocarbons	2.39	0.236	mg/l	1	6B17045	02/17/06	02/20/06	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	ND	0.472	"	"	"	"	"	"	"
Surrogate: 2-FBP	ND	50-150	"	"	"	"	"	"	S-02
Surrogate: Octacosane	78.8 %	50-150	"	"	"	"	"	"	"
CK-MW8D (B6B0354-08) Water Sampled: 02/14/06 13:50 Received: 02/15/06 12:08									
Diesel Range Hydrocarbons	2.23	0.236	mg/l	1	6B17045	02/17/06	02/20/06	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	ND	0.472	"	"	"	"	"	"	"
Surrogate: 2-FBP	ND	50-150	"	"	"	"	"	"	S-01
Surrogate: Octacosane	79.7 %	50-150	"	"	"	"	"	"	"
CK-MW13 (B6B0354-09) Water Sampled: 02/14/06 14:30 Received: 02/15/06 12:08									
Diesel Range Hydrocarbons	3.01	0.236	mg/l	1	6B17045	02/17/06	02/20/06	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	ND	0.472	"	"	"	"	"	"	"
Surrogate: 2-FBP	85.6 %	50-150	"	"	"	"	"	"	"
Surrogate: Octacosane	81.4 %	50-150	"	"	"	"	"	"	"

North Creek Analytical - Bothell

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North Creek Analytical, Inc.
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EA Engineering, Science and Technology
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 Bellevue, WA/USA 98005

Project: Circle K
 Project Number: 61994.01
 Project Manager: Jill Frain

Reported:
 02/27/06 16:41

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
CK-MW15 (B6B0354-04) Water Sampled: 02/14/06 10:00 Received: 02/15/06 12:08										
Lead	ND	0.00100		mg/l	1	6B20041	02/20/06	02/21/06	EPA 6020	
CK-MW11 (B6B0354-05) Water Sampled: 02/14/06 11:40 Received: 02/15/06 12:08										
Lead	0.0158	0.00100		mg/l	1	6B20041	02/20/06	02/21/06	EPA 6020	

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Project: Circle K
 Project Number: 61994.01
 Project Manager: Jill Frain

Reported:
 02/27/06 16:41

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CK-MW6 (B6B0354-01) Water Sampled: 02/14/06 09:00 Received: 02/15/06 12:08									
Lead	ND	0.00100	mg/l	1	6B21033	02/21/06	02/21/06	EPA 6020 - Diss	
CK-MW14 (B6B0354-03) Water Sampled: 02/14/06 10:00 Received: 02/15/06 12:08									
Lead	ND	0.00100	mg/l	1	6B21033	02/21/06	02/21/06	EPA 6020 - Diss	
CK-MW16 (B6B0354-06) Water Sampled: 02/14/06 12:30 Received: 02/15/06 12:08									
Lead	ND	0.00100	mg/l	1	6B21033	02/21/06	02/21/06	EPA 6020 - Diss	

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Project: Circle K
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 Project Manager: Jill Frain

Reported:
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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 6B17020: Prepared 02/17/06 Using EPA 5030B (P/T)

Blank (6B17020-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)	53.8		"	60.0		89.7	58-144			
Surrogate: 4-BFB (PID)	58.2		"	60.0		97.0	68-140			

Blank (6B17020-BLK2)

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)	50.8		"	60.0		84.7	58-144			
Surrogate: 4-BFB (PID)	57.7		"	60.0		96.2	68-140			

LCS (6B17020-BS1)

Gasoline Range Hydrocarbons	984	50.0	ug/l	1000		98.4	80-120			
Surrogate: 4-BFB (FID)	56.3		"	60.0		93.8	58-144			

LCS (6B17020-BS2)

Benzene	29.9	0.500	ug/l	30.0		99.7	80-120			
Toluene	29.2	0.500	"	30.0		97.3	80-120			
Ethylbenzene	28.8	0.500	"	30.0		96.0	80-120			
Xylenes (total)	87.1	1.00	"	90.0		96.8	80-120			
Surrogate: 4-BFB (PID)	60.8		"	60.0		101	68-140			

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Project: Circle K
 Project Number: 61994.01
 Project Manager: Jill Frain

Reported:
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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 6B17020: Prepared 02/17/06 Using EPA 5030B (P/T)										
Duplicate (6B17020-DUP1)					Source: B6B0354-01					
Gasoline Range Hydrocarbons	64.4	50.0	ug/l		67.5			4.70	25	
Benzene	0.901	0.500	"		0.982			8.60	25	
Toluene	ND	0.500	"		ND			42.8	25	RP-4
Ethylbenzene	3.70	0.500	"		3.84			3.71	25	
Xylenes (total)	6.66	1.00	"		7.13			6.82	25	
Surrogate: 4-BFB (FID)	51.9		"	60.0		86.5	58-144			
Surrogate: 4-BFB (PID)	57.9		"	60.0		96.5	68-140			
Duplicate (6B17020-DUP2)					Source: B6B0354-03					
Gasoline Range Hydrocarbons	ND	50.0	ug/l		ND			12.4	25	
Benzene	ND	0.500	"		ND			NR	25	
Toluene	ND	0.500	"		ND			67.3	25	RP-4
Ethylbenzene	ND	0.500	"		ND			NR	25	
Xylenes (total)	ND	1.00	"		ND			NR	25	
Surrogate: 4-BFB (FID)	51.4		"	60.0		85.7	58-144			
Surrogate: 4-BFB (PID)	57.7		"	60.0		96.2	68-140			
Matrix Spike (6B17020-MS1)					Source: B6B0354-01					
Gasoline Range Hydrocarbons	1080	50.0	ug/l	1000	67.5	101	58-129			
Surrogate: 4-BFB (FID)	54.5		"	60.0		90.8	58-144			
Matrix Spike (6B17020-MS2)					Source: B6B0354-03					
Benzene	32.6	0.500	ug/l	30.0	ND	109	46-130			
Toluene	31.6	0.500	"	30.0	0.288	104	60-124			
Ethylbenzene	31.4	0.500	"	30.0	ND	105	56-141			
Xylenes (total)	94.2	1.00	"	90.0	ND	105	66-132			
Surrogate: 4-BFB (PID)	60.6		"	60.0		101	68-140			

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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 6B18015: Prepared 02/18/06 Using EPA 5030B (P/T)

Blank (6B18015-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)	53.5		"	60.0		89.2	58-144			
Surrogate: 4-BFB (PID)	57.8		"	60.0		96.3	68-140			

LCS (6B18015-BS1)

Gasoline Range Hydrocarbons	979	50.0	ug/l	1000		97.9	80-120			
Surrogate: 4-BFB (FID)	57.8		"	60.0		96.3	58-144			

LCS (6B18015-BS2)

Benzene	33.1	0.500	ug/l	30.0		110	80-120			
Toluene	32.6	0.500	"	30.0		109	80-120			
Ethylbenzene	31.9	0.500	"	30.0		106	80-120			
Xylenes (total)	96.8	1.00	"	90.0		108	80-120			
Surrogate: 4-BFB (PID)	61.6		"	60.0		103	68-140			

Duplicate (6B18015-DUP1)

Source: B6B0280-01

Gasoline Range Hydrocarbons	333	50.0	ug/l		350			4.98	25	
Benzene	ND	0.500	"		ND			NR	25	
Toluene	0.731	0.500	"		0.912			22.0	25	
Ethylbenzene	ND	0.500	"		ND			29.7	25	RP-4
Xylenes (total)	ND	1.00	"		1.01			42.4	25	RP-4
Surrogate: 4-BFB (FID)	63.0		"	60.0		105	58-144			
Surrogate: 4-BFB (PID)	56.2		"	60.0		93.7	68-140			

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Project: Circle K
 Project Number: 61994.01
 Project Manager: Jill Frain

Reported:
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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 6B18015: Prepared 02/18/06 Using EPA 5030B (P/T)										
Duplicate (6B18015-DUP2)					Source: B6B0280-02					
Gasoline Range Hydrocarbons	1270	250	ug/l		1300			2.33	25	
Benzene	308	2.50	"		271			12.8	25	
Toluene	2.62	2.50	"		ND			20.2	25	
Ethylbenzene	12.8	2.50	"		11.5			10.7	25	
Xylenes (total)	ND	5.00	"		ND			NR	25	
Surrogate: 4-BFB (FID)	60.9		"	60.0		102	58-144			
Surrogate: 4-BFB (PID)	63.6		"	60.0		106	68-140			
Matrix Spike (6B18015-MS1)					Source: B6B0280-01					
Gasoline Range Hydrocarbons	1410	50.0	ug/l	1000	350	106	58-129			
Surrogate: 4-BFB (FID)	65.1		"	60.0		108	58-144			
Matrix Spike (6B18015-MS2)					Source: B6B0280-02					
Benzene	640	5.00	ug/l	300	271	123	46-130			
Toluene	329	5.00	"	300	2.14	109	60-124			
Ethylbenzene	336	5.00	"	300	11.5	108	56-141			
Xylenes (total)	977	10.0	"	900	1.28	108	66-132			
Surrogate: 4-BFB (PID)	62.7		"	60.0		104	68-140			
Matrix Spike Dup (6B18015-MSD1)					Source: B6B0280-01					
Gasoline Range Hydrocarbons	1300	50.0	ug/l	1000	350	95.0	58-129	8.12	25	
Surrogate: 4-BFB (FID)	67.5		"	60.0		112	58-144			
Matrix Spike Dup (6B18015-MSD2)					Source: B6B0280-02					
Benzene	592	5.00	ug/l	300	271	107	46-130	7.79	40	
Toluene	324	5.00	"	300	2.14	107	60-124	1.53	40	
Ethylbenzene	331	5.00	"	300	11.5	106	56-141	1.50	40	
Xylenes (total)	966	10.0	"	900	1.28	107	66-132	1.13	40	
Surrogate: 4-BFB (PID)	62.6		"	60.0		104	68-140			

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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	Limit	RPD	RPD Limit	Notes
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Batch 6B19002: Prepared 02/19/06 Using EPA 5030B (P/T)

Blank (6B19002-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)	55.6		"	60.0		92.7	58-144			
Surrogate: 4-BFB (PID)	61.2		"	60.0		102	68-140			

LCS (6B19002-BS1)

Gasoline Range Hydrocarbons	1090	50.0	ug/l	1000		109	80-120			
Benzene	11.8	0.500	"	11.3		104	80-120			
Toluene	69.3	0.500	"	84.4		82.1	80-120			
Ethylbenzene	15.4	0.500	"	16.9		91.1	80-120			
Xylenes (total)	82.6	1.00	"	98.3		84.0	80-120			
Surrogate: 4-BFB (FID)	60.6		"	60.0		101	58-144			
Surrogate: 4-BFB (PID)	56.8		"	60.0		94.7	68-140			

Duplicate (6B19002-DUP1)

Source: B6B0332-01

Gasoline Range Hydrocarbons	ND	50.0	ug/l		ND			NR	25	
Benzene	ND	0.500	"		ND			NR	25	
Toluene	ND	0.500	"		ND			NR	25	
Ethylbenzene	ND	0.500	"		ND			NR	25	
Xylenes (total)	ND	1.00	"		ND			NR	25	
Surrogate: 4-BFB (FID)	56.7		"	60.0		94.5	58-144			
Surrogate: 4-BFB (PID)	61.7		"	60.0		103	68-140			

Duplicate (6B19002-DUP2)

Source: B6B0282-02

Gasoline Range Hydrocarbons	ND	50.0	ug/l		ND			NR	25	
Benzene	ND	0.500	"		ND			NR	25	
Toluene	ND	0.500	"		ND			NR	25	
Ethylbenzene	ND	0.500	"		ND			NR	25	
Xylenes (total)	ND	1.00	"		ND			NR	25	
Surrogate: 4-BFB (FID)	54.1		"	60.0		90.2	58-144			
Surrogate: 4-BFB (PID)	61.6		"	60.0		103	68-140			

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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 6B19002: Prepared 02/19/06 Using EPA 5030B (P/T)

Matrix Spike (6B19002-MS1)

Source: B6B0332-01

Gasoline Range Hydrocarbons	1110	50.0	ug/l	1000	ND	111	58-129			
Benzene	12.1	0.500	"	11.3	ND	107	46-130			
Toluene	70.6	0.500	"	84.4	ND	83.6	60-124			
Ethylbenzene	15.5	0.500	"	16.9	ND	91.7	56-141			
Xylenes (total)	83.5	1.00	"	98.3	ND	84.9	66-132			
Surrogate: 4-BFB (FID)	60.8		"	60.0		101	58-144			
Surrogate: 4-BFB (PID)	56.8		"	60.0		94.7	68-140			

Matrix Spike Dup (6B19002-MSD1)

Source: B6B0332-01

Gasoline Range Hydrocarbons	1070	50.0	ug/l	1000	ND	107	58-129	3.67	25	
Benzene	12.0	0.500	"	11.3	ND	106	46-130	0.830	40	
Toluene	69.9	0.500	"	84.4	ND	82.8	60-124	0.996	40	
Ethylbenzene	15.2	0.500	"	16.9	ND	89.9	56-141	1.95	40	
Xylenes (total)	82.1	1.00	"	98.3	ND	83.5	66-132	1.69	40	
Surrogate: 4-BFB (FID)	60.4		"	60.0		101	58-144			
Surrogate: 4-BFB (PID)	57.2		"	60.0		95.3	68-140			

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EA Engineering, Science and Technology 12011 NE 1st Street, Suite 100 Bellevue, WA/USA 98005	Project: Circle K Project Number: 61994.01 Project Manager: Jill Frain	Reported: 02/27/06 16:41
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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 6B17045: Prepared 02/17/06 Using EPA 3520C

Blank (6B17045-BLK1)

Diesel Range Hydrocarbons	ND	0.250	mg/l							
Lube Oil Range Hydrocarbons	ND	0.500	"							
Surrogate: 2-FBP	0.159		"	0.250		63.6	50-150			
Surrogate: Octacosane	0.204		"	0.250		81.6	50-150			

LCS (6B17045-BS1)

Diesel Range Hydrocarbons	1.55	0.250	mg/l	2.00		77.5	58-125			
Lube Oil Range Hydrocarbons	1.58	0.500	"	2.00		79.0	60-140			
Surrogate: 2-FBP	0.150		"	0.250		60.0	50-150			
Surrogate: Octacosane	0.187		"	0.250		74.8	50-150			

LCS Dup (6B17045-BSD1)

Diesel Range Hydrocarbons	1.81	0.250	mg/l	2.00		90.5	58-125	15.5	40	
Lube Oil Range Hydrocarbons	1.69	0.500	"	2.00		84.5	60-140	6.73	40	
Surrogate: 2-FBP	0.165		"	0.250		66.0	50-150			
Surrogate: Octacosane	0.192		"	0.250		76.8	50-150			

North Creek Analytical - Bothell

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Kortland Orr, PM



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EA Engineering, Science and Technology
 12011 NE 1st Street, Suite 100
 Bellevue, WA/USA 98005

Project: Circle K
 Project Number: 61994.01
 Project Manager: Jill Frain

Reported:
 02/27/06 16:41

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6B20041: Prepared 02/20/06 Using EPA 3020A										
Blank (6B20041-BLK1)										
Lead	ND	0.00100	mg/l							
LCS (6B20041-BS1)										
Lead	0.0756	0.00100	mg/l	0.0800		94.5	80-120			
Duplicate (6B20041-DUP1) Source: B6B0390-01										
Lead	ND	0.00100	mg/l		ND			NR	20	
Matrix Spike (6B20041-MS1) Source: B6B0390-01										
Lead	0.0808	0.00100	mg/l	0.0800	ND	101	80-120			
Post Spike (6B20041-PS1) Source: B6B0390-01										
Lead	0.0999		ug/ml	0.100	0.000140	99.8	75-125			

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North Creek Analytical, Inc.
 Environmental Laboratory Network



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Project: Circle K
 Project Number: 61994.01
 Project Manager: Jill Frain

Reported:
 02/27/06 16:41

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 Limits	RPD	RPD Limit	Notes
Batch 6B21033: Prepared 02/21/06 Using EPA 3005A										
Blank (6B21033-BLK1)										
Lead	ND	0.00100	mg/l							
LCS (6B21033-BS1)										
Lead	0.200	0.00100	mg/l	0.200		100	80-120			
Duplicate (6B21033-DUP1) Source: B6B0323-02										
Lead	ND	0.00100	mg/l		ND			NR	20	
Matrix Spike (6B21033-MS1) Source: B6B0323-02										
Lead	0.0994	0.00100	mg/l	0.100	ND	99.4	77-120			

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EA Engineering, Science and Technology
12011 NE 1st Street, Suite 100
Bellevue, WA/USA 98005

Project: Circle K
Project Number: 61994.01
Project Manager: Jill Frain

Reported:
02/27/06 16:41

Notes and Definitions

- D-08 Results in the diesel organics range are primarily due to overlap from a gasoline range product.
- RP-4 Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- 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-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
- 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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 FAX 906-9210
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CHAIN OF CUSTODY REPORT

Work Order #: **B6B0354**

NCA CLIENT: **WA Dept of Ecology**
 REPORT TO: **EA Engineering - Jill Paine**
 ADDRESS: **12011 NE 1st Street, Suite 100**
Bellevue, WA 98005
 PHONE: **425-451-7400** FAX: **~ 7800**
 PROJECT NAME: **Circle K**
 PROJECT NUMBER: **619947.01**

INVOICE TO: **WA Dept. of Ecology**
 ATTN: **Roger Nye.**
 P.O. NUMBER: **Field order #: PF 3B8D**

TURNAROUND REQUEST
 in Business Days*
 7 8 9 10 11 12
 13 14 15 16 17 18 19 20

SAMPLED BY:	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PRESERVATIVE				REQUESTED ANALYSES							
			ML	MD	MP	MS	1	2	3	4				
MSB	CK-MW6	2/14/06 0900	X	X	X	X	X	X	X	X	X	X	X	X
	CK-TB	---	X	X	X	X	X	X	X	X	X	X	X	X
	CK-MW14	1000	X	X	X	X	X	X	X	X	X	X	X	X
	CK-MW15	1050	X	X	X	X	X	X	X	X	X	X	X	X
	CK-MW11	1140	X	X	X	X	X	X	X	X	X	X	X	X
	CK-MW16	1230	X	X	X	X	X	X	X	X	X	X	X	X
	CK-MW8	1340	X	X	X	X	X	X	X	X	X	X	X	X
	CK-MW8D	1350	X	X	X	X	X	X	X	X	X	X	X	X
	CK-MW13	1430	X	X	X	X	X	X	X	X	X	X	X	X

MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WORD
W	6		-01
	2		-02
	6		-03
	6		-04
	6		-05
	6		-06
	5	High conc?	-07
	5	High conc?	-08
	5	sheen noted.	-09

RECEIVED BY: **Mark Blinkestub** DATE: **2/15/06**
 PRINT NAME: **Mark Blinkestub** FIRM: **EA Eng.** TIME: **0850**
 RECEIVED BY: **Tom Blinkestub** DATE: **2/15/06**
 PRINT NAME: **Blankinship** FIRM: **NCA** TIME: **1208**

RECEIVED BY: DATE: TIME:
 PRINT NAME: FIRM: TIME:
 ADDITIONAL REMARKS:
 @lab 435
 433
 4/63