



VIA ELECTRONIC MAIL

October 29, 2010

Mr. Kurt Kochan
Virginia Department of Environmental Quality
Northern Regional Office
13901 Crown Court
Woodbridge, Virginia, 22193

**RE: Post Site Characterization Monitoring Report
Fairfax Facility # 26140
9901 Georgetown Pike
Great Falls, Fairfax County, Virginia
PC# 2010-3028**

Dear Mr. Kochan:

Kleinfelder, on behalf of Fairfax Petroleum Realty, LLC (Fairfax), is submitting this Post Site Characterization Monitoring Report (PSCR) for the above-referenced facility.

Please feel free to contact the undersigned at (410) 850-0404 should you have questions.

Sincerely,
Kleinfelder East, Inc.

A handwritten signature in blue ink that reads "Charlie Low".

Charlie Low
Environmental Scientist

A handwritten signature in blue ink that reads "Russell Perkins".

Russell Perkins
Assistant Project Manager

cc: Mr. Monty Berhane – Fairfax Petroleum Realty, LLC



**POST SITE CHARACTERIZATION
MONITORING REPORT
Fairfax Petroleum Facility # 26140
9901 Georgetown Pike
Great Falls, Fairfax County, Virginia**

REGULATORY INFORMATION

Regulatory Agency: Virginia Department of Environmental Quality (VADEQ)
Agency Contact: Mr. Kurt Kochan
Pollution Complaint No.: 2010-3028
Current Case Status: Post Site Characterization Monitoring
Reporting Period: September 2010
Last Report: Post Site Characterization Monitoring Report, July 2010

GENERAL SITE INFORMATION

Fairfax Petroleum Realty Contact: Mr. Monty Berhane
Consultant Contact: Mr. Mark Steele
Facility Status: Active branded Exxon retail service station with auto repair facilities.
Area Property Use: See Area Map (**Figure 1**)
Monitoring Wells: MW-1 through MW-3, MW-5, MW-6S, MW-6D, MW-7 through MW-9, MW-10, MW-11, and PW-1
Site Geology: Silts and sands underlain by structured saprolite and schist
Surficial Groundwater
Flow Direction: Southeast

ACTIVITIES COMPLETED THIS PERIOD

September 30, 2010 – Groundwater Gauging/Sampling

Wells Gauged/Sampled: MW-1 through MW-3, MW-5, MW-6S, MW-6D (3 intervals), MW-7 through MW-9, MW-11, and PW-1 (3 intervals)
Liquid Phase Hydrocarbon: None detected
Minimum/Maximum Depth to Water: 23.00 (MW-6S) / 35.69 (PW-1) feet
Hydraulic Gradient: 0.019 ft/ft between MW-5 and MW-9
Groundwater Flow Direction: Southeast

On September 30, 2010, Kleinfelder collected groundwater samples from the monitoring wells in the groundwater monitoring network, with the exception of well MW-3 and MW-10. Monitoring well MW-3 was observed as being dry on the date of sample collection and the off-site well MW-10 was unable to be sampled because access was not secured prior to the sampling event. After sampling, the groundwater water samples were submitted under chain of custody protocol for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX) and methyl tertiary butyl ether (MTBE) using Environmental Protection Agency (EPA) Method 8260B and Total Petroleum Hydrocarbon – Gasoline Range Organics (TPH-GRO) using EPA Method 8015B, to Lancaster Laboratories of Lancaster, Pennsylvania. Groundwater monitoring and analytical data is summarized in **Table 1** and depicted on **Figure 2**. The Laboratory Analytical Report is attached as **Appendix A**.

Monitoring wells MW-6D and PW-1 (the former potable well) were each sampled at three different intervals (65 feet, 85 feet and 105 feet below grade) using low-flow technology, as requested by the VADEQ in the December 10, 2009 directive letter. After lowering the decontaminated pump to the specified sampling interval, low-flow pumping began and the water was monitored for pH, temperature and dissolved oxygen. Upon observing stabilized parameters, samples were collected and submitted for analysis as detailed above.

OFF-SITE ACCESS REQUESTS

At the direction of the VADEQ, Kleinfelder, on behalf of Fairfax Petroleum Realty, has attempted to negotiate agreements and has been denied access by the owners / managers of the following properties:

- 737 Walker Road, Great Falls, Virginia. Property is located to the northeast of the site;
- 746 Walker Road, Great Falls, Virginia. Property is located to the south/southwest of the site; and
- 9829 Georgetown Pike, Great Falls, Virginia. Property is located to the east/southeast of the site.

At the time of this report, negotiations are proceeding with the Facilities Management Department of Fairfax County to discuss the possibility of installing a bedrock monitoring well at the Leo Santaballa Park (9830 Georgetown Pike) northeast of the site. Negotiations are also proceeding with the owners /managers of 748 Walker Road to the south of the site for the installation of a monitoring well.

LIMITATIONS

This work was performed in a manner consistent with that level of care and skill ordinarily exercised by other members of Kleinfelder's profession practicing in the same locality, under similar conditions and at the date the services are provided. Our conclusions, opinions and recommendations are based on a limited number of observations and data. It is possible that conditions could vary between or beyond the data evaluated. Kleinfelder makes no other representation, guarantee or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided.

FIGURES AND TABLE:

- Figure 1: Local Area Map
Figure 2: Hydrocarbon Distribution / Groundwater Contour Map
(September 30, 2010)
- Table 1: Groundwater Monitoring & Analytical Data

APPENDICES:

Appendix A: Laboratory Analytical Reports – (September 30, 2010)

Prepared By:
Kleinfelder East, Inc.


Charlie Low
Environmental Scientist


Russell Perkins
Assistant Project Manager

FIGURES

Legend

-  Site Location
-  1500-ft Site Radius



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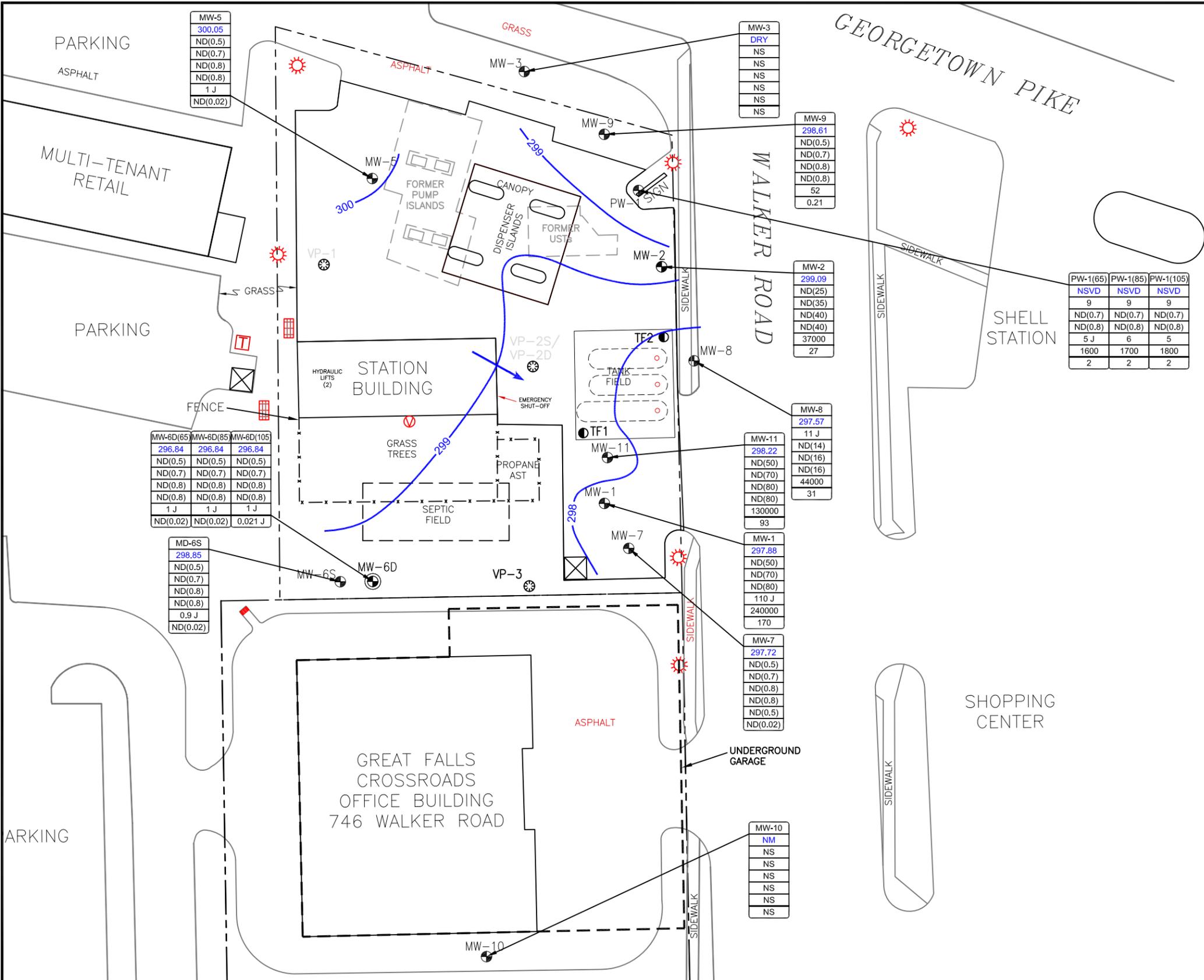



PROJECT NO.	109816
DRAWN:	07/27/10
DRAWN BY:	AJP
CHECKED BY:	MCS
FILE NAME:	26140_LAM_022210.mxd

LOCAL AREA MAP
FAIRFAX PETROLEUM REALTY FACILITY # 26140 9901 GEORGETOWN PIKE GREAT FALLS, VIRGINIA

FIGURE
1

HANOVER, MD C:\Projects\26140_Great_Falls\CAD\26140_HDMap_072610.dwg



LEGEND

- PROPERTY BOUNDARY
- x- FENCE
- - - FORMER SITE FEATURES
- ☐ TRANSFORMER
- ☒ DUMPSTER
- ☼ LIGHT POLE
- ⊖ DISPENSER ISLAND
- ⊖ UNDERGROUND STORAGE TANK
- ☒ CATCH BASIN
- ⊖ VENT PIPE
- ⊖ MONITORING WELL
- ⊖ 6" BEDROCK WELL
- ⊖ VAPOR MONITORING POINT
- ⊖ TANKFIELD WELL
- 301 GROUNDWATER CONTOUR
- ← GROUNDWATER FLOW DIRECTION
- CONTOUR INTERVAL = 1.0 FEET

MW-2	MONITORING WELL ID
299.09	GROUNDWATER ELEVATION (FEET)
ND(25)	BENZENE (µg/L)
ND(35)	TOLUENE (µg/L)
ND(40)	ETHYL BENZENE (µg/L)
ND(40)	TOTAL XYLENES (µg/L)
37000	MTBE (µg/L)
27	TPH-GRO (mg/L)

µg/L = MICROGRAMS PER LITER
 mg/L = MILLIGRAMS PER LITER
 J = ESTIMATED VALUE
 LPH = LIQUID PHASE HYDROCARBON (THICKNESS IN FEET)
 ND = NOT DETECTED (REPORTING LIMIT)
 MTBE = METHYL TERT BUTYL ETHER
 TPH = TOTAL PETROLEUM HYDROCARBONS
 GRO = GASOLINE RANGE ORGANICS

NOTES:
 MW-3, MW-6D, MW-10, AND PW-1 WERE NOT USED TO CALCULATE GROUNDWATER CONTOURS.
 MW-6D AND PW-1 WERE SAMPLED AT DIFFERENT INTERVALS. (FEET BELOW SURFACE IN PARENTHESES)

KLEINFELDER WAS UNABLE TO OBTAIN ACCESS TO SAMPLE OFFSITE WELL MW-10.

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<p>www.kleinfelder.com</p>	PROJECT NO. 109816	<p>HYDROCARBON DISTRIBUTION/ GROUNDWATER CONTOUR MAP SEPTEMBER 30, 2010</p> <p>FAIRFAX PETROLEUM REALTY FACILITY #26140 9901 GEORGETOWN PIKE GREAT FALLS, VIRGINIA</p>	<p>FIGURE 2</p>
	DRAWN: 10/22/10		
	DRAWN BY: BNM		
	CHECKED BY: RP		
FILE NAME: 26140_HDMap_072610.dwg			

TABLE

TABLE 1

Groundwater Monitoring & Analytical Data

Fairfax Facility #26140

9901 Georgetown Pike

Great Falls, VA

July 24, 2009 through September 30, 2010

Sample ID	Date	Gauging Data					Analytical Data						
		Top of Casing Elevation	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	Methyl Tertiary Butyl Ether (µg/L)	TPH-GRO (mg/L)
MW-1	7/24/2009	100.00	30.45	ND	ND	69.55	13.3	<1.0	0.53	ND	13.8	193000	105
	8/18/2009	NM	NM	NM	NM	NM	ND(200)	ND(200)	ND(200)	ND(200)	BRL	138000	65.7
	10/15/2009	328.99	31.88	ND	ND	297.11	ND(250)	ND(250)	ND(250)	ND(250)	BRL	139000	125
	6/22/2010	328.99	28.65	ND	ND	300.34	ND(5)	ND(7)	ND(8)	ND(8)	BRL	13000	14
	9/30/2010	328.99	31.11	ND	ND	297.88	ND(50)	ND(70)	ND(80)	110 J	110	240000	170
MW-2	7/24/2009	102.90	33.19	ND	ND	69.71	70.2	8.0	1.0	ND	79.2	107000	59
	8/18/2009	NM	NM	NM	NM	NM	ND(100)	ND(100)	ND(100)	ND(100)	BRL	87100	53.9
	10/15/2009	332.05	34.41	ND	ND	297.64	ND(250)	ND(250)	ND(250)	ND(250)	BRL	122000	117
	7/1/2010	332.05	31.63	ND	ND	300.42	ND(100)	91.3 J	ND(100)	ND(100)	91.3	52400	42.7
	9/30/2010	332.05	32.96	ND	ND	299.09	ND(25)	ND(35)	ND(40)	ND(40)	BRL	37000	27
MW-3	7/24/2009	104.99	33.67	ND	ND	71.32	<0.50	<1.0	<1.0	ND	BRL	5.7	NA
	10/15/2009	333.98	34.51	ND	ND	299.47	NS	NS	NS	NS	NS	NS	NS
	7/1/2010	333.98	32.39	ND	ND	301.59	ND(2)	ND(2)	ND(2)	ND(2)	BRL	1.9 J	0.499
	9/30/2010	333.98	DRY	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	7/24/2009	103.43	30.72	ND	ND	72.71	<0.50	<1.0	<1.0	ND	BRL	1.3	NA
	8/18/2009	NM	NM	NM	NM	NM	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	BRL	0.48 J	ND(0.20)
	10/15/2009	332.35	32.51	ND	ND	299.84	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	BRL	11.4	ND(0.20)
	6/22/2010	332.35	29.40	ND	ND	302.95	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	ND(0.02)
	9/30/2010	332.35	32.30	ND	ND	300.05	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	ND(0.02)
MW-6D(65)	6/22/2010	323.09	26.69	ND	ND	296.40	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	ND(0.02)
	9/30/2010	323.09	26.25	ND	ND	296.84	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	ND(0.02)
MW-6D(75)	9/24/2009	NM	NM	NM	NM	NM	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	BRL	3.0	NA
	10/15/2009	323.09	26.69	ND	ND	296.40	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	BRL	3.0	ND(0.20)
MW-6D(85)	6/22/2010	323.09	26.69	ND	ND	296.40	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	0.023 J
	9/30/2010	323.09	26.25	ND	ND	296.84	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	ND(0.02)
MW-6D(105)	6/22/2010	323.09	26.69	ND	ND	296.40	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	2 J	0.023 J
	9/30/2010	323.09	26.25	ND	ND	296.84	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	0.021 J
MW-6D(110)	9/24/2009	NM	NM	NM	NM	NM	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	BRL	3.0	NA
	10/15/2009	323.09	26.69	ND	ND	296.40	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	BRL	3.0	ND(0.20)
MW-6S	9/24/2009	NM	NM	NM	NM	NM	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	BRL	2.8	NA
	10/15/2009	321.85	23.35	ND	ND	298.50	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	BRL	3.1	ND(0.20)
	6/22/2010	321.85	20.22	ND	ND	301.63	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	2 J	ND(0.02)
	9/30/2010	321.85	23.00	ND	ND	298.85	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	0.9 J	ND(0.02)
MW-7	10/15/2009	327.96	31.21	ND	ND	296.75	3.3 J	ND(10)	ND(10)	ND(10)	3.3	4720	10.5
	6/22/2010	327.96	28.00	ND	ND	299.96	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	87	0.23
	9/30/2010	327.96	30.24	ND	ND	297.72	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	ND(0.5)	ND(0.02)
MW-8	10/15/2009	330.54	34.01	ND	ND	296.53	ND(500)	ND(500)	ND(500)	ND(500)	BRL	226000	207
	6/22/2010	330.54	30.91	ND	ND	299.63	ND(5)	ND(7)	ND(8)	ND(8)	BRL	15000	14
	9/30/2010	330.54	32.97	ND	ND	297.57	11 J	ND(14)	ND(16)	ND(16)	11	44000	31
MW-9	10/15/2009	333.46	35.60	ND	ND	297.86	ND(1.0)	ND(1.0)	ND(1.0)	1.1	1.1	64.7	0.430
	6/22/2010	333.46	32.32	ND	ND	301.14	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	22	0.076
	9/30/2010	333.46	34.85	ND	ND	298.61	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	52	0.21
MW-10	10/15/2009	324.17	28.77	ND	ND	295.40	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	BRL	10.4	ND(0.20)
	6/22/2010	324.17	25.80	ND	ND	298.37	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	4 J	ND(0.02)
	9/30/2010	NM	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS
MW-11	10/16/2009	NM	NM	NM	NM	NM	16.1	ND(10)	ND(10)	6.6	22.7	38400	35.6
	6/22/2010	329.64	29.00	ND	ND	300.64	ND(50)	ND(70)	ND(80)	ND(80)	BRL	170000	150
	9/30/2010	329.64	31.42	ND	ND	298.22	ND(50)	ND(70)	ND(80)	ND(80)	BRL	130000	93

TABLE 1

Groundwater Monitoring & Analytical Data

Fairfax Facility #26140

9901 Georgetown Pike

Great Falls, VA

July 24, 2009 through September 30, 2010

Sample ID	Date	Gauging Data					Analytical Data						
		Top of Casing Elevation	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	Methyl Tertiary Butyl Ether (µg/L)	TPH-GRO (mg/L)
PW-1(65)	10/16/2009	NM	NM	NM	NM	NM	8	ND	ND	8.4	16.4	250	0.00187
	6/22/2010	NSVD	34.47	ND	ND	NSVD	8	ND(0.7)	ND(0.8)	7	15	1600	2.2
	9/30/2010	NSVD	35.69	ND	ND	NSVD	9	ND(0.7)	ND(0.8)	5 J	14	1600	2
PW-1(85)	6/22/2010	NSVD	34.47	ND	ND	NSVD	8	ND(0.7)	ND(0.8)	5	13	2000	2.4
	9/30/2010	NSVD	35.69	ND	ND	NSVD	9	ND(0.7)	ND(0.8)	6	15	1700	2
PW-1(105)	10/16/2009	NM	NM	NM	NM	NM	5.8	ND	ND	4.1	9.9	1180	0.00371
	6/22/2010	NSVD	34.47	ND	ND	NSVD	5 J	ND(1)	ND(2)	3 J	8	2300	2.6
	9/30/2010	NSVD	35.69	ND	ND	NSVD	9	ND(0.7)	ND(0.8)	5	14	1800	2

Notes:

µg/L - micrograms per liter (parts per billion)

GW - Groundwater

mg/L - milligrams per liter (parts per million)

BTEX - Benzene, Toluene, Ethylbenzene and total Xylenes

MTBE - Methyl Tertiary Butyl Ether

MW-6D(65) - Value in parenthesis indicates depth interval measured in feet

NA - Not analyzed

ND - Not detected

ND(5.0) - Not detected at or above the laboratory reporting limit, laboratory reporting limit included.

NM - Not monitored

NS - Not sampled

NSVD - Not surveyed to vertical datum

TPH-GRO - Total Petroleum Hydrocarbons-Gasoline Range Organics

**APPENDIX A:
Laboratory Analytical Report –
(September 30, 2010)**

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Kleinfelder
30 Porter Road
Littleton MA 01460

October 12, 2010

Project: Fairfax 26140

Submittal Date: 09/30/2010

Group Number: 1214342

PO Number: 08531-099536

State of Sample Origin: VA

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
MW-1 Grab Water Sample	6100483
MW-2 Grab Water Sample	6100484
MW-5 Grab Water Sample	6100485
MW-6S Grab Water Sample	6100486
MW-6D (105) Grab Water Sample	6100487
MW-7 Grab Water Sample	6100488
MW-8 Grab Water Sample	6100489
MW-9 Grab Water Sample	6100490
MW-11 Grab Water Sample	6100491
PW-1 (105) Grab Water Sample	6100492
MW-6D (85) Grab Water Sample	6100493
MW-6D (65) Grab Water Sample	6100494
PW-1 (85) Grab Water Sample	6100495
PW-1 (65) Grab Water Sample	6100496

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC Kleinfelder
COPY TO
ELECTRONIC Kleinfelder
COPY TO

Attn: Mark Steele

Attn: Angela Vogt

Questions? Contact your Client Services Representative
Jessica A Oknefski at (717) 656-2300 Ext. 1815

Respectfully Submitted,



Marla S. Lord
Senior Specialist



Analysis Report

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

Sample Description: MW-1 Grab Water Sample
Fairfax 26140

LLI Sample # WW 6100483
LLI Group # 1214342
Account # 12152

Project Name: Fairfax 26140

Collected: 09/30/2010 10:05 by CC

Kleinfelder
30 Porter Road
Littleton MA 01460

Submitted: 09/30/2010 19:55

Reported: 10/12/2010 12:45

Discard: 11/12/2010

16140

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	50	100
10903	Ethylbenzene	100-41-4	N.D.	80	100
10903	Methyl Tertiary Butyl Ether	1634-04-4	240,000	500	1000
10903	Toluene	108-88-3	N.D.	70	100
10903	Xylene (Total)	1330-20-7	110 J	80	100
GC Volatiles			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	170	2.0	100

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T102782AA	10/06/2010 08:10	Holly Berry	100
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T102782AA	10/06/2010 08:34	Holly Berry	1000
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T102782AA	10/06/2010 08:10	Holly Berry	100
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T102782AA	10/06/2010 08:34	Holly Berry	1000
01635	TPH-GRO water C6-C10	SW-846 8015B	1	10278A20A	10/05/2010 20:47	Marie D John	100
01146	GC VOA Water Prep	SW-846 5030B	1	10278A20A	10/05/2010 20:47	Marie D John	100



Analysis Report

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

Sample Description: MW-2 Grab Water Sample
Fairfax 26140

LLI Sample # WW 6100484
LLI Group # 1214342
Account # 12152

Project Name: Fairfax 26140

Collected: 09/30/2010 11:20 by CC

Kleinfelder
30 Porter Road
Littleton MA 01460

Submitted: 09/30/2010 19:55

Reported: 10/12/2010 12:45

Discard: 11/12/2010

26140

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles					
		SW-846 8260B	ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	25	50
10903	Ethylbenzene	100-41-4	N.D.	40	50
10903	Methyl Tertiary Butyl Ether	1634-04-4	37,000	250	500
10903	Toluene	108-88-3	N.D.	35	50
10903	Xylene (Total)	1330-20-7	N.D.	40	50
GC Volatiles					
		SW-846 8015B	mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	27	0.40	20

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T102782AA	10/06/2010 09:21	Holly Berry	50
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T102801AA	10/07/2010 07:28	Angela D Sneeringer	500
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T102782AA	10/06/2010 09:21	Holly Berry	50
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T102801AA	10/07/2010 07:28	Angela D Sneeringer	500
01635	TPH-GRO water C6-C10	SW-846 8015B	1	10278A20A	10/05/2010 21:09	Marie D John	20
01146	GC VOA Water Prep	SW-846 5030B	1	10278A20A	10/05/2010 21:09	Marie D John	20



Analysis Report

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

Sample Description: MW-5 Grab Water Sample
Fairfax 26140

LLI Sample # WW 6100485
LLI Group # 1214342
Account # 12152

Project Name: Fairfax 26140

Collected: 09/30/2010 11:45 by CC

Kleinfelder
30 Porter Road
Littleton MA 01460

Submitted: 09/30/2010 19:55

Reported: 10/12/2010 12:45

Discard: 11/12/2010

56140

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B					
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	1 J	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles SW-846 8015B					
01635	TPH-GRO water C6-C10	n.a.	N.D.	0.020	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T102782AA	10/06/2010 06:13	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T102782AA	10/06/2010 06:13	Holly Berry	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	10274A07A	10/01/2010 13:39	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10274A07A	10/01/2010 13:39	Marie D John	1



Analysis Report

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

Sample Description: MW-6S Grab Water Sample
Fairfax 26140

LLI Sample # WW 6100486
LLI Group # 1214342
Account # 12152

Project Name: Fairfax 26140

Collected: 09/30/2010 09:20 by CC

Kleinfelder
30 Porter Road
Littleton MA 01460

Submitted: 09/30/2010 19:55

Reported: 10/12/2010 12:45

Discard: 11/12/2010

6S140

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	0.9 J	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles SW-846 8015B mg/l					
01635	TPH-GRO water C6-C10	n.a.	N.D.	0.020	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T102782AA	10/06/2010 06:36	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T102782AA	10/06/2010 06:36	Holly Berry	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	10274A07A	10/01/2010 14:04	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10274A07A	10/01/2010 14:04	Marie D John	1



Analysis Report

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

Sample Description: MW-6D (105) Grab Water Sample
Fairfax 26140

LLI Sample # WW 6100487
LLI Group # 1214342
Account # 12152

Project Name: Fairfax 26140

Collected: 09/30/2010 09:25 by CC

Kleinfelder
30 Porter Road
Littleton MA 01460

Submitted: 09/30/2010 19:55

Reported: 10/12/2010 12:45

Discard: 11/12/2010

6D105

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	1 J	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	0.021 J	0.020	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T102782AA	10/06/2010 07:00	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T102782AA	10/06/2010 07:00	Holly Berry	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	10274A07A	10/01/2010 14:30	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10274A07A	10/01/2010 14:30	Marie D John	1



Analysis Report

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

Sample Description: MW-7 Grab Water Sample
Fairfax 26140

LLI Sample # WW 6100488
LLI Group # 1214342
Account # 12152

Project Name: Fairfax 26140

Collected: 09/30/2010 09:50 by CC Kleinfelder
30 Porter Road
Submitted: 09/30/2010 19:55 Littleton MA 01460
Reported: 10/12/2010 12:45
Discard: 11/12/2010

76140

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	N.D.	0.020	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T102782AA	10/06/2010 07:23	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T102782AA	10/06/2010 07:23	Holly Berry	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	10274A07A	10/01/2010 14:56	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10274A07A	10/01/2010 14:56	Marie D John	1



Analysis Report

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

Sample Description: MW-8 Grab Water Sample
Fairfax 26140

LLI Sample # WW 6100489
LLI Group # 1214342
Account # 12152

Project Name: Fairfax 26140

Collected: 09/30/2010 10:55 by CC

Kleinfelder

30 Porter Road

Submitted: 09/30/2010 19:55

Littleton MA 01460

Reported: 10/12/2010 12:45

Discard: 11/12/2010

86140

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles			ug/l	ug/l	
10903	Benzene	71-43-2	11 J	10	20
10903	Ethylbenzene	100-41-4	N.D.	16	20
10903	Methyl Tertiary Butyl Ether	1634-04-4	44,000	100	200
10903	Toluene	108-88-3	N.D.	14	20
10903	Xylene (Total)	1330-20-7	N.D.	16	20
GC Volatiles			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	31	0.40	20

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T102782AA	10/06/2010 09:44	Holly Berry	20
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T102782AA	10/06/2010 10:08	Holly Berry	200
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T102782AA	10/06/2010 09:44	Holly Berry	20
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T102782AA	10/06/2010 10:08	Holly Berry	200
01635	TPH-GRO water C6-C10	SW-846 8015B	1	10278A20A	10/05/2010 21:30	Marie D John	20
01146	GC VOA Water Prep	SW-846 5030B	1	10278A20A	10/05/2010 21:30	Marie D John	20



Analysis Report

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

**Sample Description: MW-9 Grab Water Sample
Fairfax 26140**

**LLI Sample # WW 6100490
LLI Group # 1214342
Account # 12152**

Project Name: Fairfax 26140

Collected: 09/30/2010 11:10 by CC

Kleinfelder

30 Porter Road

Littleton MA 01460

Submitted: 09/30/2010 19:55

Reported: 10/12/2010 12:45

Discard: 11/12/2010

96140

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	52	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	0.21	0.020	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T102782AA	10/06/2010 07:47	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T102782AA	10/06/2010 07:47	Holly Berry	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	10274A07A	10/01/2010 15:22	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10274A07A	10/01/2010 15:22	Marie D John	1



Analysis Report

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

Sample Description: MW-11 Grab Water Sample
Fairfax 26140

LLI Sample # WW 6100491
LLI Group # 1214342
Account # 12152

Project Name: Fairfax 26140

Collected: 09/30/2010 10:40 by CC

Kleinfelder

30 Porter Road

Submitted: 09/30/2010 19:55

Littleton MA 01460

Reported: 10/12/2010 12:45

Discard: 11/12/2010

11140

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	50	100
10903	Ethylbenzene	100-41-4	N.D.	80	100
10903	Methyl Tertiary Butyl Ether	1634-04-4	130,000	500	1000
10903	Toluene	108-88-3	N.D.	70	100
10903	Xylene (Total)	1330-20-7	N.D.	80	100
GC Volatiles			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	93	1.0	50

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T102782AA	10/06/2010 10:31	Holly Berry	100
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T102782AA	10/06/2010 10:55	Holly Berry	1000
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T102782AA	10/06/2010 10:31	Holly Berry	100
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T102782AA	10/06/2010 10:55	Holly Berry	1000
01635	TPH-GRO water C6-C10	SW-846 8015B	1	10278A20A	10/05/2010 21:52	Marie D John	50
01146	GC VOA Water Prep	SW-846 5030B	1	10278A20A	10/05/2010 21:52	Marie D John	50



Analysis Report

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

Sample Description: PW-1 (105) Grab Water Sample
Fairfax 26140

LLI Sample # WW 6100492
LLI Group # 1214342
Account # 12152

Project Name: Fairfax 26140

Collected: 09/30/2010 11:05 by CC

Kleinfelder
30 Porter Road
Littleton MA 01460

Submitted: 09/30/2010 19:55

Reported: 10/12/2010 12:45

Discard: 11/12/2010

P1105

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles				ug/l	
	SW-846 8260B		ug/l		
10903	Benzene	71-43-2	9	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	1,800	5	10
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	5	0.8	1
GC Volatiles				mg/l	
	SW-846 8015B		mg/l		
01635	TPH-GRO water C6-C10	n.a.	2.0	0.020	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T102791AA	10/06/2010 18:12	Kerri E Legerlotz	1
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T102791AA	10/06/2010 18:36	Kerri E Legerlotz	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T102791AA	10/06/2010 18:12	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T102791AA	10/06/2010 18:36	Kerri E Legerlotz	10
01635	TPH-GRO water C6-C10	SW-846 8015B	1	10274A07A	10/01/2010 15:47	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10274A07A	10/01/2010 15:47	Marie D John	1



Analysis Report

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

Sample Description: MW-6D (85) Grab Water Sample
Fairfax 26140

LLI Sample # WW 6100493
LLI Group # 1214342
Account # 12152

Project Name: Fairfax 26140

Collected: 09/30/2010 09:55 by CC

Kleinfelder
30 Porter Road
Littleton MA 01460

Submitted: 09/30/2010 19:55

Reported: 10/12/2010 12:45

Discard: 11/12/2010

6D850

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	1 J	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles SW-846 8015B mg/l					
01635	TPH-GRO water C6-C10	n.a.	N.D.	0.020	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T102791AA	10/06/2010 18:59	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T102791AA	10/06/2010 18:59	Kerri E Legerlotz	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	10274A07A	10/01/2010 16:13	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10274A07A	10/01/2010 16:13	Marie D John	1



Analysis Report

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

Sample Description: MW-6D (65) Grab Water Sample
Fairfax 26140

LLI Sample # WW 6100494
LLI Group # 1214342
Account # 12152

Project Name: Fairfax 26140

Collected: 09/30/2010 10:15 by CC

Kleinfelder
30 Porter Road
Littleton MA 01460

Submitted: 09/30/2010 19:55

Reported: 10/12/2010 12:45

Discard: 11/12/2010

6D650

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	1 J	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles SW-846 8015B mg/l					
01635	TPH-GRO water C6-C10	n.a.	N.D.	0.020	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T102791AA	10/06/2010 19:22	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T102791AA	10/06/2010 19:22	Kerri E Legerlotz	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	10277A07A	10/04/2010 21:23	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10277A07A	10/04/2010 21:23	Marie D John	1



Analysis Report

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

Sample Description: PW-1 (85) Grab Water Sample
Fairfax 26140

LLI Sample # WW 6100495
LLI Group # 1214342
Account # 12152

Project Name: Fairfax 26140

Collected: 09/30/2010 11:25 by CC

Kleinfelder
30 Porter Road
Littleton MA 01460

Submitted: 09/30/2010 19:55

Reported: 10/12/2010 12:45

Discard: 11/12/2010

P1850

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles			ug/l	ug/l	
10903	Benzene	71-43-2	9	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	1,700	5	10
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	6	0.8	1
GC Volatiles			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	2.0	0.020	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T102791AA	10/06/2010 19:46	Kerri E Legerlotz	1
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T102791AA	10/06/2010 20:10	Kerri E Legerlotz	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T102791AA	10/06/2010 19:46	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T102791AA	10/06/2010 20:10	Kerri E Legerlotz	10
01635	TPH-GRO water C6-C10	SW-846 8015B	1	10277A07A	10/04/2010 21:49	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10277A07A	10/04/2010 21:49	Marie D John	1



Analysis Report

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

Sample Description: PW-1 (65) Grab Water Sample
Fairfax 26140

LLI Sample # WW 6100496
LLI Group # 1214342
Account # 12152

Project Name: Fairfax 26140

Collected: 09/30/2010 11:45 by CC

Kleinfelder

30 Porter Road

Littleton MA 01460

Submitted: 09/30/2010 19:55

Reported: 10/12/2010 12:45

Discard: 11/12/2010

P1650

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles			ug/l	ug/l	
10903	Benzene	71-43-2	9	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	1,600	5	10
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	5 J	0.8	1
GC Volatiles			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	2.0	0.020	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T102791AA	10/06/2010 20:33	Kerri E Legerlotz	1
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T102791AA	10/06/2010 20:56	Kerri E Legerlotz	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T102791AA	10/06/2010 20:33	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T102791AA	10/06/2010 20:56	Kerri E Legerlotz	10
01635	TPH-GRO water C6-C10	SW-846 8015B	1	10277A07A	10/04/2010 22:15	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10277A07A	10/04/2010 22:15	Marie D John	1

Quality Control Summary

 Client Name: Kleinfelder
 Reported: 10/12/10 at 12:45 PM

Group Number: 1214342

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: T102782AA	Sample number(s): 6100483-6100491							
Benzene	N.D.	0.5	ug/l	101	103	79-120	2	30
Ethylbenzene	N.D.	0.8	ug/l	99	100	79-120	2	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	107	109	76-120	2	30
Toluene	N.D.	0.7	ug/l	99	102	79-120	3	30
Xylene (Total)	N.D.	0.8	ug/l	101	102	80-120	1	30
Batch number: T102791AA	Sample number(s): 6100492-6100496							
Benzene	N.D.	0.5	ug/l	104		79-120		
Ethylbenzene	N.D.	0.8	ug/l	101		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	106		76-120		
Toluene	N.D.	0.7	ug/l	103		79-120		
Xylene (Total)	N.D.	0.8	ug/l	101		80-120		
Batch number: T102801AA	Sample number(s): 6100484							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	101		76-120		
Batch number: 10274A07A	Sample number(s): 6100485-6100488, 6100490, 6100492-6100493							
TPH-GRO water C6-C10	N.D.	0.020	mg/l	100	100	75-135	0	30
Batch number: 10277A07A	Sample number(s): 6100494-6100496							
TPH-GRO water C6-C10	N.D.	0.020	mg/l	86	91	75-135	5	30
Batch number: 10278A20A	Sample number(s): 6100483-6100484, 6100489, 6100491							
TPH-GRO water C6-C10	N.D.	0.020	mg/l	86	100	75-135	15	30

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: T102782AA	Sample number(s): 6100483-6100491 UNSPK: P099637								
Benzene	109		80-126						
Ethylbenzene	110		71-134						
Methyl Tertiary Butyl Ether	109		72-126						
Toluene	108		80-125						
Xylene (Total)	108		79-125						
Batch number: T102791AA	Sample number(s): 6100492-6100496 UNSPK: P100877								
Benzene	100	97	80-126	2	30				
Ethylbenzene	99	94	71-134	6	30				

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Kleinfelder

Group Number: 1214342

Reported: 10/12/10 at 12:45 PM

Sample Matrix Quality Control

 Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Methyl Tertiary Butyl Ether	101	98	72-126	2	30				
Toluene	99	96	80-125	3	30				
Xylene (Total)	101	95	79-125	6	30				

 Batch number: T102801AA
 Methyl Tertiary Butyl Ether

 Sample number(s): 6100484 UNSPK: P100503
 101 109 72-126 6 30

 Batch number: 10274A07A
 TPH-GRO water C6-C10

 Sample number(s): 6100485-6100488,6100490,6100492-6100493 UNSPK: 6100485
 109 63-154

 Batch number: 10277A07A
 TPH-GRO water C6-C10

 Sample number(s): 6100494-6100496 UNSPK: 6100494
 109 63-154

 Batch number: 10278A20A
 TPH-GRO water C6-C10

 Sample number(s): 6100483-6100484,6100489,6100491 UNSPK: P101346
 115 63-154

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: PPL 8260 Water

Batch number: T102782AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6100483	105	98	97	98
6100484	106	101	97	98
6100485	108	103	96	99
6100486	109	101	96	99
6100487	108	100	93	97
6100488	109	102	93	96
6100489	105	100	97	99
6100490	111	102	94	98
6100491	106	99	94	97
Blank	106	100	97	97
LCS	101	101	100	103
LCSD	101	98	102	105
MS	100	100	101	104
Limits:	80-116	77-113	80-113	78-113

Analysis Name: PPL 8260 Water

Batch number: T102791AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6100492	103	98	96	98
6100493	106	99	96	96
6100494	109	100	95	96
6100495	104	97	97	102
6100496	102	96	95	99

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Kleinfelder
Reported: 10/12/10 at 12:45 PM

Group Number: 1214342

Surrogate Quality Control

Blank	108	102	96	95
LCS	102	101	100	105
MS	101	96	100	103
MSD	101	101	100	101

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

Analysis Name: 8260 Master Scan (water)

Batch number: T102801AA

Dibromofluoromethane 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzene

Blank	100	100	102	100
LCS	98	99	103	104
MS	101	102	101	105
MSD	100	98	99	104

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

Analysis Name: TPH-GRO water C6-C10

Batch number: 10274A07A

Trifluorotoluene-F

6100485	93
6100486	93
6100487	91
6100488	92
6100490	92
6100492	97
6100493	92
Blank	92
LCS	99
LCSD	105
MS	102

Limits: 63-135

Analysis Name: TPH-GRO water C6-C10

Batch number: 10277A07A

Trifluorotoluene-F

6100494	94
6100495	98
6100496	97
Blank	93
LCS	98
LCSD	99
MS	102

Limits: 63-135

Analysis Name: TPH-GRO water C6-C10

Batch number: 10278A20A

Trifluorotoluene-F

6100483	90
6100484	87
6100489	90

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Kleinfelder
Reported: 10/12/10 at 12:45 PM

Group Number: 1214342

Surrogate Quality Control

6100491	88
Blank	88
LCS	114
LCSD	123
MS	119

Limits: 63-135

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 12152
 Group #: 101342 Sample #: 6100483-97

Chain of custody 1 of 2

Client: Fairfax Petroleum		Acct. #:		Matrix			Analyses Requested				For Lab Use Only		
Project Name#: 26140		PWSID #:		Potable NPDES			Preservation Codes				FSC:		
Project Manager: Mark Steele		P.O. #: 08531-099536									SCR#:		
Sampler: Chris Cree, Ph.D. / Ph.D. / Low		Quote #:									Preservation Codes		
Name of State where samples were collected: Virginia VA											H-HCl T-Thiosulfate W-HNO3 B-BaCl2 S-H2SO4 O-Omer		
Sample Identification		Date Collected	Time Collected	Grab	Composite	Soil	Water	Other	Total # of Containers	BTEX MTBE 8260	TPH-GRO 8015	Remarks	Temperature of samples upon receipt (if requested)
MW-1		9/30/10	1005	X			X		6	X	X		
MW-2			1120	X			X		6	X	X		
MW-3				X			X		6	X	X		
MW-5			1145	X			X		6	X	X		
MW-6S			0920	X			X		6	X	X		
MW-6D (105)			0925	X			X		6	X	X		
MW-7			0950	X			X		6	X	X		
MW-8			1055	X			X		6	X	X		
MW-9			1110	X			X		6	X	X		
MW-10			0835	X			X		6	X	X		
MW-11			1040	X			X		6	X	X		
PW-1 (105)			1105	X			X		6	X	X		
Turnaround Time Requested (TAT) (please circle) Normal <u>Normal</u> Rush						Relinquished by: <i>[Signature]</i>		Date	Time	Received by:	Date	Time	
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)						Date		Time	Received by:	Date	Time		
Date results are needed: _____						Date		Time	Received by:	Date	Time		
Rush results requested by (please circle): Phone Fax E-mail						Date		Time	Received by:	Date	Time		
Phone #: _____ Fax #: _____						Date		Time	Received by:	Date	Time		
E-mail address: _____						Date		Time	Received by:	Date	Time		
Data Package Options (please circle if required)				SDG Complete?		Relinquished by:		Date	Time	Received by:	Date	Time	
Type I (validation/NJ reg) TX-TRRP-13				Yes No		Relinquished by:		Date	Time	Received by:	Date	Time	
Type II (Tier II) MA MCP CT RCP						Relinquished by:		Date	Time	Received by:	Date	Time	
Type III (Reduced NJ)				State-specific QC (MS/MSD/Dup)? Yes No		Relinquished by:		Date	Time	Received by:	Date	Time	
Type IV (CLP SOW)				(If yes, indicated QC sample and submit triplicate volume)		Relinquished by:		Date	Time	Received by:	Date	Time	
Type VI (Raw Data Only)				Internal COC required? Yes No		Relinquished by:		Date	Time	Received by:	Date	Time	

Lancaster Laboratories, Inc. 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 717-656-2300
 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client

9/30/10

Analysis Request/ Environmental Services Chain of Custody



For Lancaster Laboratories use only

Acct. # 12152 Group# 1214342 Sample # C 100483-9 **COC # 248596** 3-3

Please print. Instructions on reverse side correspond with circled numbers.

Chain of custody 2012

<p>1 Client: <u>Fairfax Petroleum</u> Acct. #: _____</p> <p>Project Name/ #: _____ PWSID #: _____</p> <p>Project Manager: <u>Mark Steele</u> P.O. #: <u>08531-099536</u></p> <p>Sampler: <u>Chris Greco, Charlie Low</u> Quote #: _____</p> <p>Name of state where samples were collected: <u>VA</u></p>				<p>4</p> <p>Matrix</p> <p>Check if Potable or Applicable</p> <p><input type="checkbox"/> NPDES <input type="checkbox"/></p>		<p>5 Analyses Requested</p> <p>Preservation Codes</p>										<p>6</p> <p>Temperature of samples upon receipt (if requested)</p>							
						<p>FSC: _____</p> <p>SCR#: <u>95863</u></p> <p>Preservation Codes</p> <p>H=HCl T=Thiosulfate</p> <p>N=HNO₃ B=NaOH</p> <p>S=H₂SO₄ O=Other</p>																	
Sample Identification		Date Collected	Time Collected	Grab	Composite	Soil	Water	Other	Total # of Containers											Remarks			
										<p><u>STEX MTBE 8260</u></p> <p><u>TPH-GRO 8015</u></p>													
<u>MW-6D (85)</u>		<u>9/30/10</u>	<u>0955</u>	<u>X</u>		<u>X</u>				<u>X</u>	<u>X</u>												
<u>MW-6D (65)</u>			<u>1015</u>	<u>X</u>		<u>X</u>				<u>X</u>	<u>X</u>												
<u>PW-1 (85)</u>			<u>1125</u>	<u>X</u>		<u>X</u>				<u>X</u>	<u>X</u>												
<u>PW-1 (65)</u>			<u>1145</u>	<u>X</u>		<u>X</u>				<u>X</u>	<u>X</u>												
<u>CL</u>																							
<p>7 Turnaround Time Requested (TAT) (please circle): Normal Rush</p> <p>(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)</p> <p>Date results are needed: _____</p> <p>Rush results requested by (please circle): Phone Fax E-mail</p> <p>Phone #: _____ Fax #: _____</p> <p>E-mail address: _____</p>						<p>Relinquished by: <u>Bottle Storage</u></p> <p>Date: _____ Time: _____</p>		<p>Received by: _____</p> <p>Date: _____ Time: _____</p>		<p>9</p>													
<p>8 Data Package Options (please circle if required)</p> <p>Type I (validation/NJ Reg) TX TRRP-13 Yes No</p> <p>Type II (Tier II) MA MCP CT RCP</p> <p>Type III (Reduced NJ) Site-specific QC (MS/MSD/Dup)? Yes No</p> <p>Type IV (CLP SOW) (if yes indicate CC sample and submit replicate volume.)</p> <p>Type VI (Raw Data Only) Internal COC Required? Yes / No _____</p>						<p>Relinquished by: <u>Harry Werge</u></p> <p>Date: <u>9/30/10</u> Time: <u>1430</u></p>		<p>Received by: <u>Harry Werge</u></p> <p>Date: <u>9/30/10</u> Time: <u>2:15</u></p>		<p>Relinquished by: _____</p> <p>Date: _____ Time: _____</p>		<p>Received by: _____</p> <p>Date: _____ Time: _____</p>											
<p>Relinquished by: _____</p> <p>Date: _____ Time: _____</p>						<p>Received by: _____</p> <p>Date: _____ Time: _____</p>		<p>Relinquished by: _____</p> <p>Date: _____ Time: _____</p>		<p>Received by: _____</p> <p>Date: _____ Time: _____</p>													
<p>Relinquished by: _____</p> <p>Date: _____ Time: _____</p>						<p>Received by: _____</p> <p>Date: _____ Time: _____</p>		<p>Relinquished by: _____</p> <p>Date: _____ Time: _____</p>		<p>Received by: _____</p> <p>Date: _____ Time: _____</p>													

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers	Inorganic Qualifiers
A TIC is a possible aldol-condensation product	B Value is $<$ CRDL, but \geq IDL
B Analyte was also detected in the blank	E Estimated due to interference
C Pesticide result confirmed by GC/MS	M Duplicate injection precision not met
D Compound quantitated on a diluted sample	N Spike sample not within control limits
E Concentration exceeds the calibration range of the instrument	S Method of standard additions (MSA) used for calculation
N Presumptive evidence of a compound (TICs only)	U Compound was not detected
P Concentration difference between primary and confirmation columns $>$ 25%	W Post digestion spike out of control limits
U Compound was not detected	* Duplicate analysis not within control limits
X,Y,Z Defined in case narrative	+ Correlation coefficient for MSA $<$ 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

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

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

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