VIA ELECTRONIC MAIL

April 30, 2014

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

RE: First Quarter 2014 CAP Monitoring Report
Inactive Fairfax Facility # 26140
9901 Georgetown Pike
Great Falls, Fairfax County, Virginia
PC# 2010-3028

Dear Mr. Wardle:

Kleinfelder, on behalf of Fairfax Petroleum Realty, LLC (Fairfax), is submitting this Corrective Action Plan (CAP) Monitoring Report for the above-referenced facility. This report outlines the activities completed during the First Quarter 2014.

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

Sincerely,
Kleinfelder, Inc.

Paxton Wertz
Geologist

Mark C. Steele
Program Manager

Attachment

cc: Ms. Megan Tingley – Fairfax Petroleum Realty, LLC

CAP MONITORING REPORT – FIRST QUARTER 2014
Inactive Fairfax Facility # 26140
9901 Georgetown Pike
Great Falls, Fairfax County, Virginia

REGULATORY INFORMATION

Regulatory Agency:	Virginia Department of Environmental Quality (VADEQ)
Agency Contact:	Mr. Alexander Wardle
Pollution Complaint No.:	2010-3028
Current Case Status:	Corrective Action Plan (CAP) Implementation
Reporting Period:	January 1 through April 15, 2014
Last Report:	CAP Monitoring Report, January 31, 2014

GENERAL SITE INFORMATION

Fairfax Petroleum Realty Contact:	Ms. Megan Tingley
Consultant Contact:	Mr. Mark C. Steele
Facility Status:	Inactive retail service station with auto repair facilities.
Area Property Use:	See Local Area Map (**Figure 1**)
Site Well Network:	MW-1 through MW-3, MW-5, MW-6S, MW-6D, MW-7, MW-9 through MW-20D, MW-21I, MW-21S, MW-22, W-1 through W-7, PW-1, and RW-1
Soil Vapor Monitoring Points	VP-1, VP-2S, VP-2D, and VP-3
Site Geology:	Schist saprolite grading to competent schist bedrock
Surficial Groundwater Flow Direction:	Southeast

ACTIVITIES COMPLETED THIS PERIOD

Well Installation

Twelve wells were installed on and off-site during the First Quarter 2014. These wells include five soil vapor extraction (SVE) wells (SVE-1 through SVE-5) and one recovery well (RW-1) on-site; as well as five monitoring wells (MW-19D, MW-21I, MW-21S, MW-22, and MW-24) and one open borehole bedrock well (MW-20D) off-site. Following the well installations, the vertical elevations of the top of casing (TOC) for the newly installed wells were measured in relation to the TOC elevations for the existing monitoring well network using standard surveying equipment. The monitoring well construction information is provided in **Table 1**, and the boring and construction logs of the newly installed wells are included within **Appendix A**. The locations of the monitoring wells are depicted on **Figure 2**.

February 17 through 19, 2014

On February 17 through 19, 2014, Kleinfelder personnel oversaw the installation of five SVE wells constructed of 4-inch schedule 40 polyvinyl chloride (PVC) riser with the well screens constructed of 0.020 slot size 4-inch schedule 40 PVC well screen. Soil vapor extraction wells SVE-1, and SVE-3 through SVE-5 were installed to total depths of approximately 35 feet below grade, and screened from 15 feet to 35 feet below grade. Soil vapor extraction well SVE-2, which is a replacement well for MW-8 abandoned in 2013, was installed to a depth of approximately 45 feet below grade.

March 7 through 13, 2014

On March 7 through 13, 2014, Kleinfelder personnel oversaw the installation of the recovery well RW-1 and the deep monitoring well MW-19D. The recovery well RW-1 boring was advanced via air rotary to a depth of approximately 100 feet below grade; however, prior to the installation of the monitoring well the boring collapsed to approximately 85 feet below grade. In an attempt to install the monitoring well to the target depth of 100 feet, the boring was over drilled to increase the boring diameter to 13 inches to the top of competent rock at approximately 63 feet below grade. The larger diameter boring was designed to allow the installation of a temporary 10-inch steel casing to prevent additional borehole collapse. The temporary 10-inch steel casing was installed to 63 feet below grade; however, the additional attempts to prevent borehole collapse and install the recovery well to the target depth of 100 feet below

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grade were unsuccessful and the screened interval was set from 21 feet to 91 feet below grade. The recovery well RW-1 was constructed of 6-inch schedule 40 PVC riser and 0.020 slot size well screen.

Monitoring well MW-19D was advanced to the target depth of approximately 100 feet below grade via air rotary. A 2-inch diameter schedule 40 PVC monitoring well was installed with a screened interval consisting of 0.020 slot size well screen from 80 feet to 100 feet below grade.

Off-Site Monitoring Well Installation

On March 31 through April 7, 2014, Kleinfelder personnel oversaw the installation of four off-site monitoring wells and one off-site bedrock open borehole. The borings of MW-20D, MW-21I and MW-21S, and MW-22 were advanced via air rotary while the boring of monitoring well MW-24 was advanced using a hollow stem auger drill rig. With the exception of the open bedrock borehole, all wells were installed with 2-inch diameter PVC riser 0.020 slot screen, and a number 2 gravel pack installed in the annulus of the screened interval.

The bedrock open borehole MW-20D was advanced to approximately 70 feet below grade with a 10-inch boring diameter. Six-inch steel casing was installed to approximately 70 feet below grade. Following the advancement of the casing, the boring collapsed filling the annulus between the borehole and the casing to approximately 35 feet below grade with native material. The remaining annulus was filled with a Portland cement / bentonite powder grout slurry. After allowing the grout to cure a 6-inch boring was advanced to approximately 142 feet below grade and finished as an open borehole.

The nested monitoring well pair MW-21I and MW-21S was installed in a 10-inch boring drilled via air rotary. Monitoring well MW-21I was installed to the top of competent bedrock in the transition zone with a screen interval of 56 feet to 66 feet below grade. A number 2 sand pack installed around monitoring well MW-21I was extended approximately two feet above the screened interval. A bentonite seal was then installed to hydraulically separate the screened intervals of the shallow and deep well pairs. A one foot sand pack was installed between the base of monitoring well MW-21S and the bentonite seal to prevent the bentonite seal from expanding into the screened interval of the well. Monitoring well MW-21S was installed across the groundwater interface with a screen interval of 26.5 feet to 46.5 feet below grade. Monitoring well MW-22 was

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also installed across the apparent groundwater interface with a screened interval from 20 feet to 40 feet below grade.

The boring for deep monitoring well MW-23D was advanced approximately three feet into competent bedrock via air rotary. Prior to the advancement of casing, the borehole collapsed to approximately 30 feet below grade and the casing would not advance under its own weight. The casing was then advanced by the drilling head of the drill rig. When the casing reached approximately 60 feet, the weld joining the two uppermost segments of casing sheared below grade and was not retrievable. The damage the casing sustained during the shearing process rendered the casing unsuitable for advancement of the open hole boring. The boring was abandoned in place with a Portland cement/bentonite slurry. Monitoring well MW-24 was installed using a hollow stem auger drill rig to a depth of approximately 60 feet below grade with a screened interval from 50 feet to 60 feet below grade.

Temporary Soil Vapor Extraction System Installation

In March 2014, Kleinfelder personnel oversaw the installation of the temporary SVE system, associated piping, and the connections of the piping to the SVE wells and the temporary SVE system. The newly installed SVE wells SVE-1 through SVE-5, as well as monitoring well MW-14 were connected to the temporary SVE system via 2-inch schedule 40 PVC pipe. The PVC piping from the SVE wells to the temporary SVE system was installed in below grade trenches. Following the trenching and piping activities, the trenches were resurfaced with asphalt. During the site restoration, the former tank field was also resurfaced with asphalt. On March 13, 2014, the temporary SVE system shed was delivered to the site and installed in position using a crane. On March 14, 2014, the temporary SVE system was connected to the PVC piping previously installed. The locations of the SVE wells, monitoring well MW-14, trench location, and the temporary SVE system are depicted on **Figure 3**.

Groundwater Gauging and Sampling

Groundwater gauging and sampling was conducted on the new and existing monitoring wells during the First Quarter 2014. Groundwater samples were submitted under chain of custody protocol to Lancaster Laboratories for analysis of volatile organic compounds (VOCs) via Environmental Protection Agency (EPA) Method 8260B. Samples collected from on-site and select off-site monitoring wells were submitted for analysis of full list VOCs, while the remaining off-site wells were submitted for analysis

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of benzene, toluene, ethylbenzene, total xylenes (BTEX), methyl tertiary butyl ether (MTBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), ethyl tertiary butyl ether (ETBE), and di-Isopropyl ether (DIPE). Groundwater monitoring and analytical data for the shallow and deep monitoring wells is summarized in **Tables 2**, **3** and **4**. The groundwater analytical data and the March 24, 2014 shallow monitoring well potentiometric surface is depicted on **Figure 4**. The March 24, 2014 deep monitoring well potentiometric surface is depicted on **Figure 5**. An MTBE isoconcentration map of the analytical results from the shallow wells, including the newly installed wells, is included as **Figure 6**. The Lancaster Laboratories Analysis Reports are included in **Appendix B**.

March 24, 25 and 28, 2014

Wells Gauged and Sampled:	MW-1, MW-5, MW-7, MW-9, MW-11, MW-13 through MW-16D, MW-19D through MW-22, SVE-2, W-1, W-2, W-6, W-7, GFSCMW-2, GFSCMW-3, GFGPMW-4, and PW-1
Wells Gauged Only:	MW-3, MW-5, MW-6S, MW-6D, MW-10, MW-12D, MW-17D, MW-18D, RW-1, W-3 through W-5, GFGPMW-5
Liquid Phase Hydrocarbon:	None detected
Minimum/Maximum Depth to Water:	22.19 (MW-6S) / 44.17 (MW-18D) feet
Shallow Groundwater Flow Direction:	Southeast
Shallow Hydraulic Gradient:	0.029 ft/ft between MW-5 and W-5
Deep Groundwater Flow Direction:	Southeast
Deep Hydraulic Gradient:	0.023 ft/ft between PW-1 and MW-18D

On March 24 through 28, Kleinfelder personnel completed groundwater monitoring activities of the on and off-site monitoring well network associated with the Site. The Site monitoring well network was gauged on March 24, 2014. At the request of the VADEQ, four pre-existing monitoring wells associated former environmental cases (GFGPMW-4, GFGPMW-5, GFSCMW-2, and GFSCMW-3) were also gauged and sampled during the event. Monitoring wells MW-3 and GFGPMW-5 were dry and not sampled. Deep monitoring wells (MW-6D, MW-12D, MW-17D, and MW-18D) were gauged only and not sampled with VADEQ approval. The monitoring well network was sampled via low flow, parameter stabilization methodology. During low-flow groundwater sampling activities, water quality data was obtained from the wells and upon observing stabilized parameters, samples were collected for laboratory analysis.

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April 10 and 11, 2014

With VADEQ approval, Kleinfelder personnel installed four discrete interval HydraSleeve™ samplers at 75 feet, 95, feet, 110 feet and 138 feet below TOC in the open bedrock borehole MW-20D on April 10 2014. HydraSleeve™ samplers were used in this initial sampling event to evaluate the presence of dissolved phase petroleum hydrocarbons. On April 11, 2014, Kleinfelder personnel completed groundwater monitoring activities of the newly installed monitoring wells MW-20D, MW-21I, MW-21S, MW-24. Groundwater samples from the four HydraSleeve™ samplers installed in the open bedrock borehole MW-20D were retrieved following a 24 hour period to allow groundwater within the borehole to equilibrate. Monitoring wells MW-21I, MW-21S, MW-22, and MW-24 were sampled via low flow, parameter stabilization methodology as previously described.

Soil Vapor Sampling

On March 28, 2014, Kleinfelder personnel sampled the soil vapor points (VPs) associated with the Site to obtain baseline data prior to operation of the temporary SVE system. Before collecting soil vapor samples, each VP was checked for leaks using a helium tracer system. Helium was not detected above the field screening equipment detection limit in the leak detection samples collected at VP-1 through VP-3; therefore, the soil vapor monitoring points were considered to be acceptable for sampling. Following the helium tracer test, the SVMP samples were collected using six-liter SUMMA canisters with laboratory-calibrated flow controllers set to collect vapor samples at a rate of approximately 200 mL/min.

The samples were submitted to Accutest Laboratories for analysis of BTEX constituents and MTBE using EPA Method TO-15. The analytical data is summarized in **Table 5**. The Accutest Laboratories Technical Report is included as **Appendix C**.

CMT Installation

On April 9 and 10, 2014, Kleinfelder personnel oversaw the installation of continuous multichannel tubing (CMT) in the deep monitoring well MW-17D. The existing 6-inch diameter open borehole well (MW-17D) was converted to a seven-channel CMT discrete water monitoring system with ports screened with 0.020 slot size stainless steel

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mesh screens at specific intervals following the manufacturer guided procedures and specifications.

Number 3 well sand was added to the bottom of the borehole and the borehole annulus at specified intervals above and below the screened intervals followed by coated bentonite pellets to seal between intervals. Coated bentonite pellets were also added to a depth of 50 feet below ground surface and a Portland cement / bentonite grout was added via tremie from 50 feet below ground to the surface to seal the borehole. Centralizers were added every 10 feet to keep the monitoring points straight and aligned within the borehole. The specification for the CMT water level monitoring system is shown below in the table:

Depth of Center of CMT Port (feet below ground surface)	Sand Intervals (feet below ground surface)	Coated Bentonite Intervals (feet below ground surface)
75	71-77	67-71
81	79-83	77-79
87.75	86-90	83-86
92	91-93	90-91
117	114-120	93-114
129.75	126-132	120-126
147	146-150 (Terminal Depth)	132-146

WASTE MANAGEMENT

Soil generated during drilling and SVE system installations was containerized in roll-off dumpsters for off-site disposal. Water generated during well advancement was containerized for off-site disposal. Water generated during monitoring well development was containerized and treated with granular activated carbon on-site and discharged to a landscaped area. The non-hazardous waste manifests will be submitted to the VADEQ under separate cover.

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ACTIVITIES PLANNED FOR NEXT PERIOD (SECOND QUARTER 2014)

Activities planned for the Second Quarter 2014 includes installation of the proposed deep monitoring well to the south, one groundwater sampling event, the startup of the temporary SVE system, and the pre-design aquifer testing. The startup of the temporary SVE system is subject to the availability and connection of an electrical service from the utility provider.

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 TABLES:

Figure 1: Local Area Map
Figure 2: Site Plan
Figure 3: Temporary SVE System and Trenching Layout
Figure 4: Hydrocarbon Distribution / Groundwater Contour Map – Shallow Wells (March 24 through April 11, 2014)
Figure 5: Hydrocarbon Distribution / Groundwater Contour Map – Deep Wells (March 24 through April 11, 2014)
Figure 6 MTBE Isoconcentration Map (March 24 through April 11, 2014)

Table 1: Monitoring Well Construction Data
Table 2: Groundwater Monitoring & Analytical Data – Shallow Wells
Table 3: Groundwater Monitoring & Analytical Data – Deep Wells
Table 4 Groundwater Monitoring & Analytical Data – Chlorinated VOCs
Table 5: Soil Vapor Analytical Data

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APPENDICES:

Appendix A: Monitoring Well Boring and Construction Logs
Appendix B: Lancaster Laboratories Analysis Reports – Groundwater
Appendix C: Lancaster Laboratories Analysis Reports – Soil Vapor

Prepared By:
Kleinfelder, Inc.

Paxton D. Wertz
Geologist

Mark C. Steele
Program Manager

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FIGURES

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LOCAL AREA MAP

INACTIVE FAIRFAX FACILITY # 26140
9901 GEORGETOWN PIKE
GREAT FALLS, VIRGINIA

FIGURE
1

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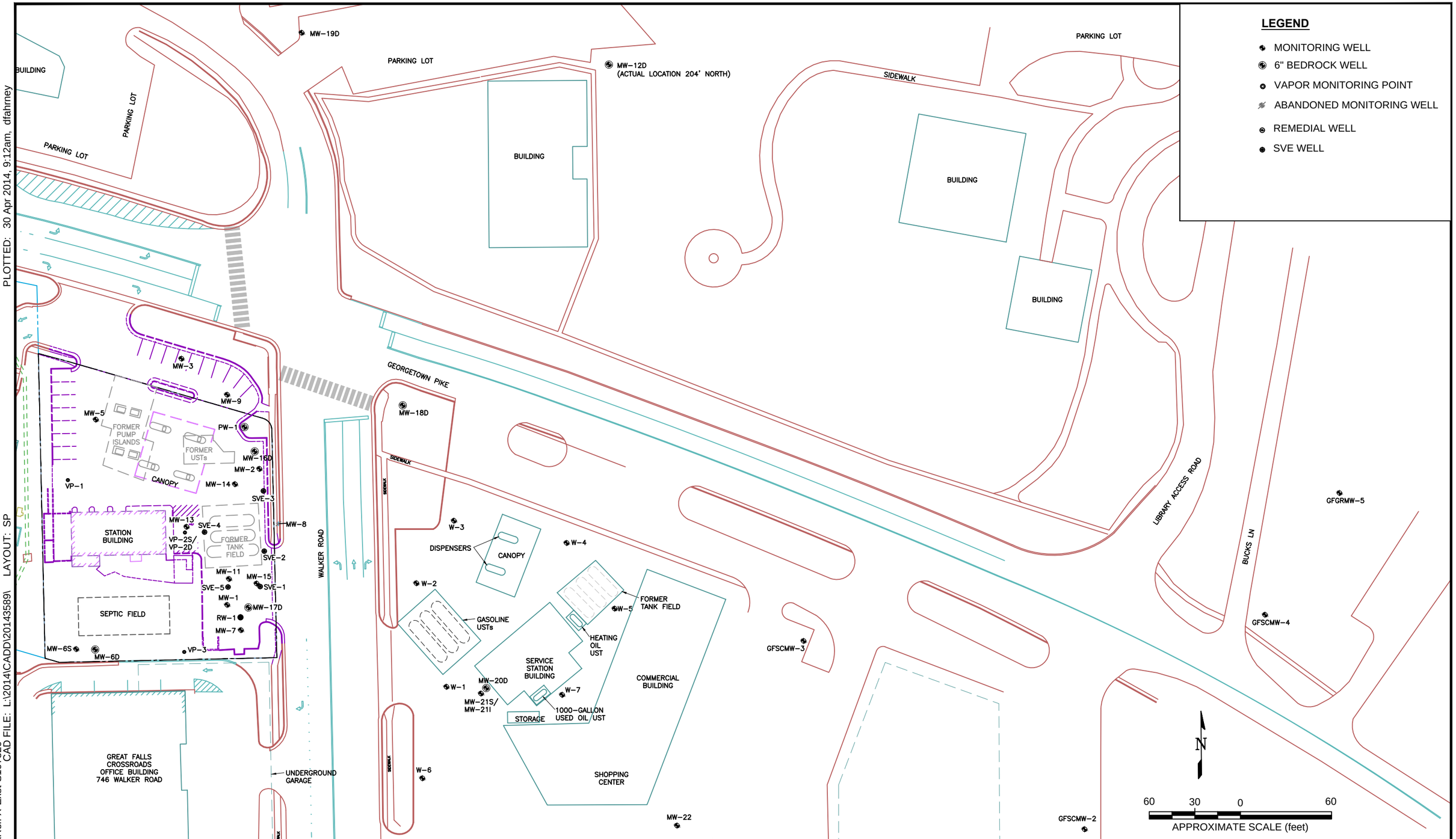

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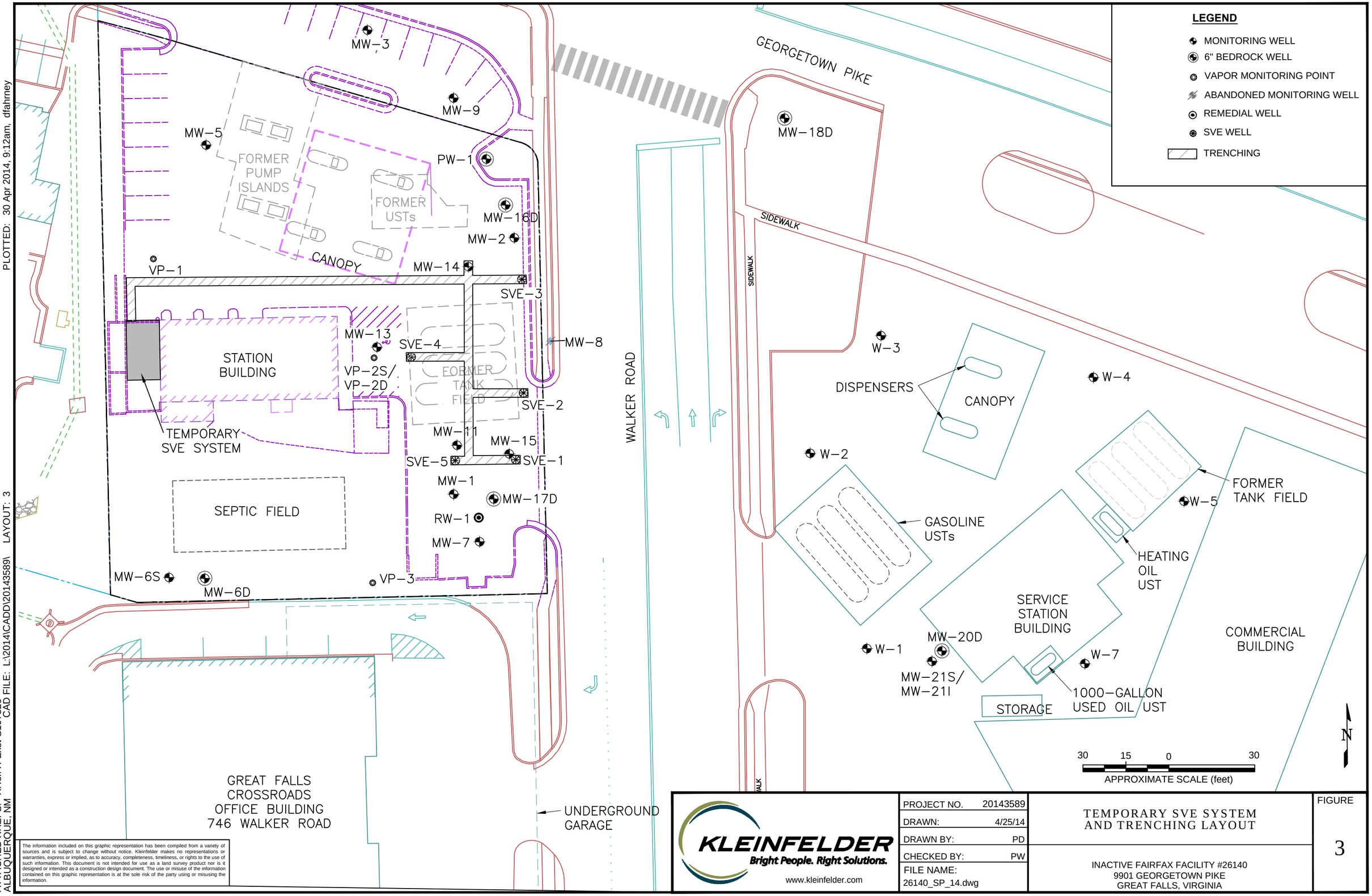
SITE PLAN

INACTIVE FAIRFAX FACILITY #26140
9901 GEORGETOWN PIKE
GREAT FALLS, VIRGINIA

FIGURE

2



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TEMPORARY SVE SYSTEM AND TRENCHING LAYOUT

INACTIVE FAIRFAX FACILITY #26140
9901 GEORGETOWN PIKE
GREAT FALLS, VIRGINIA

FIGURE 3

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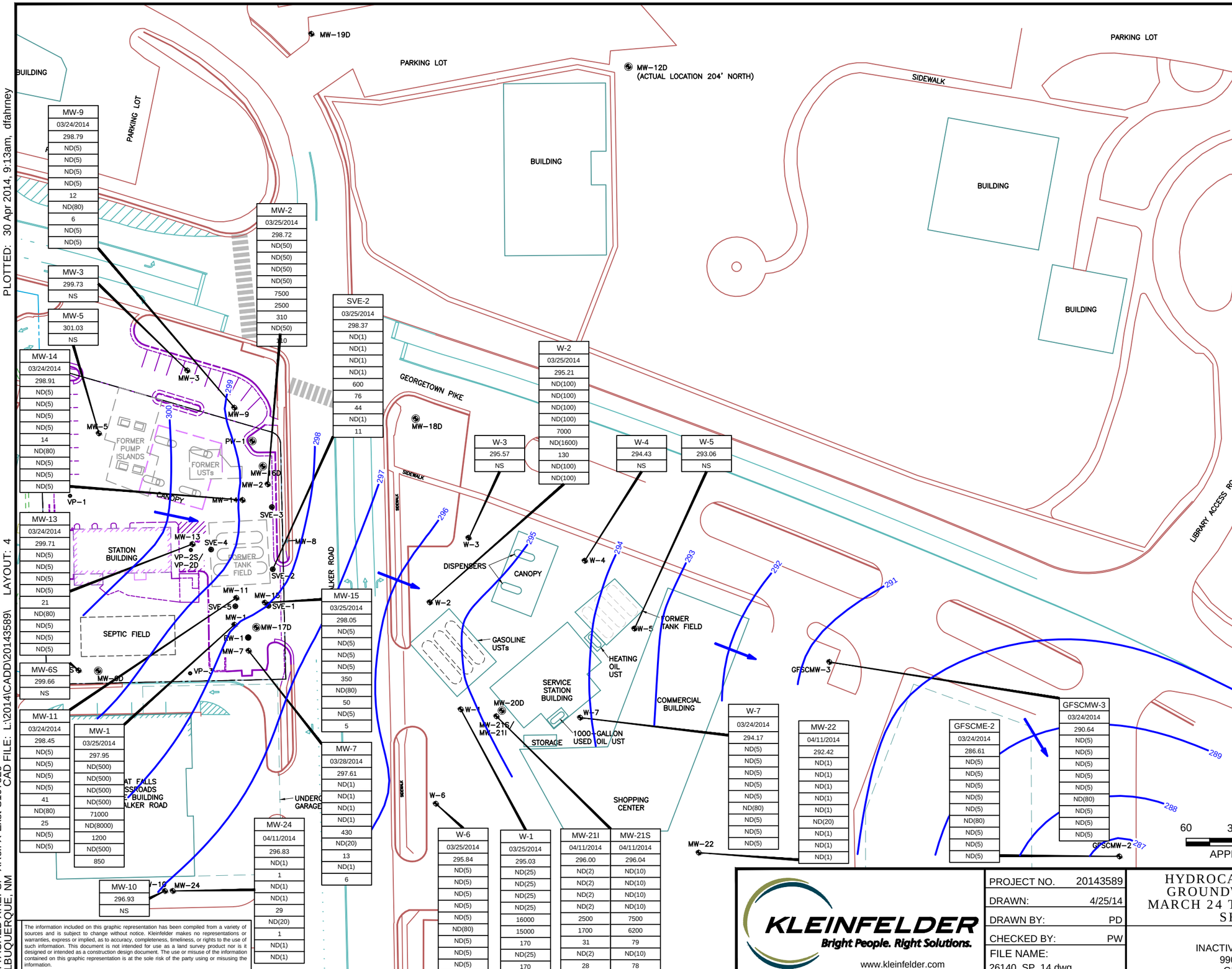

LEGEND

- MONITORING WELL
- 6" BEDROCK WELL
- VAPOR MONITORING POINT
- ABANDONED MONITORING WELL
- REMEDIAL WELL
- SVE WELL
- GROUNDWATER CONTOUR
  CONTOUR INTERVAL = 1.00 FEET
- GROUNDWATER FLOW DIRECTION

MW-11	WELL IDENTIFICATION
03/24/2014	DATE
295.73	GROUNDWATER ELEVATION
ND(5)	BENZENE (µg/L)
ND(5)	TOLUENE (µg/L)
ND(5)	ETHYLBENZENE ((µg/L)
7	TOTAL XYLENES (µg/L)
140	MTBE (µg/L)
ND(80)	TBA (µg/L)
130	DIPE (µg/L)
ND(5)	ETBE (µg/L)
ND(5)	TAME (µg/L)

µg/L = MICROGRAMS PER LITER
J = ESTIMATED VALUE
ND = NOT DETECTED (REPORTING LIMIT)
MTBE = METHYL TERT BUTYL ETHER
TBA = TERTIARY BUTYL ALCOHOL
DIPE = ISOPROPYL ETHER
ETBE = ETHYL TERT-BUTYL ETHER
TAME = TERT-AMYL METHYL ETHER

NOTES:

GROUNDWATER CONTOURS CALCULATED FROM MARCH 24, 2014 GAUGING DATA.

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HYDROCARBON DISTRIBUTION / GROUNDWATER CONTOUR MAP MARCH 24 THROUGH APRIL 11, 2014 SHALLOW WELLS

INACTIVE FAIRFAX FACILITY #26140
9901 GEORGETOWN PIKE
GREAT FALLS, VIRGINIA

FIGURE

4

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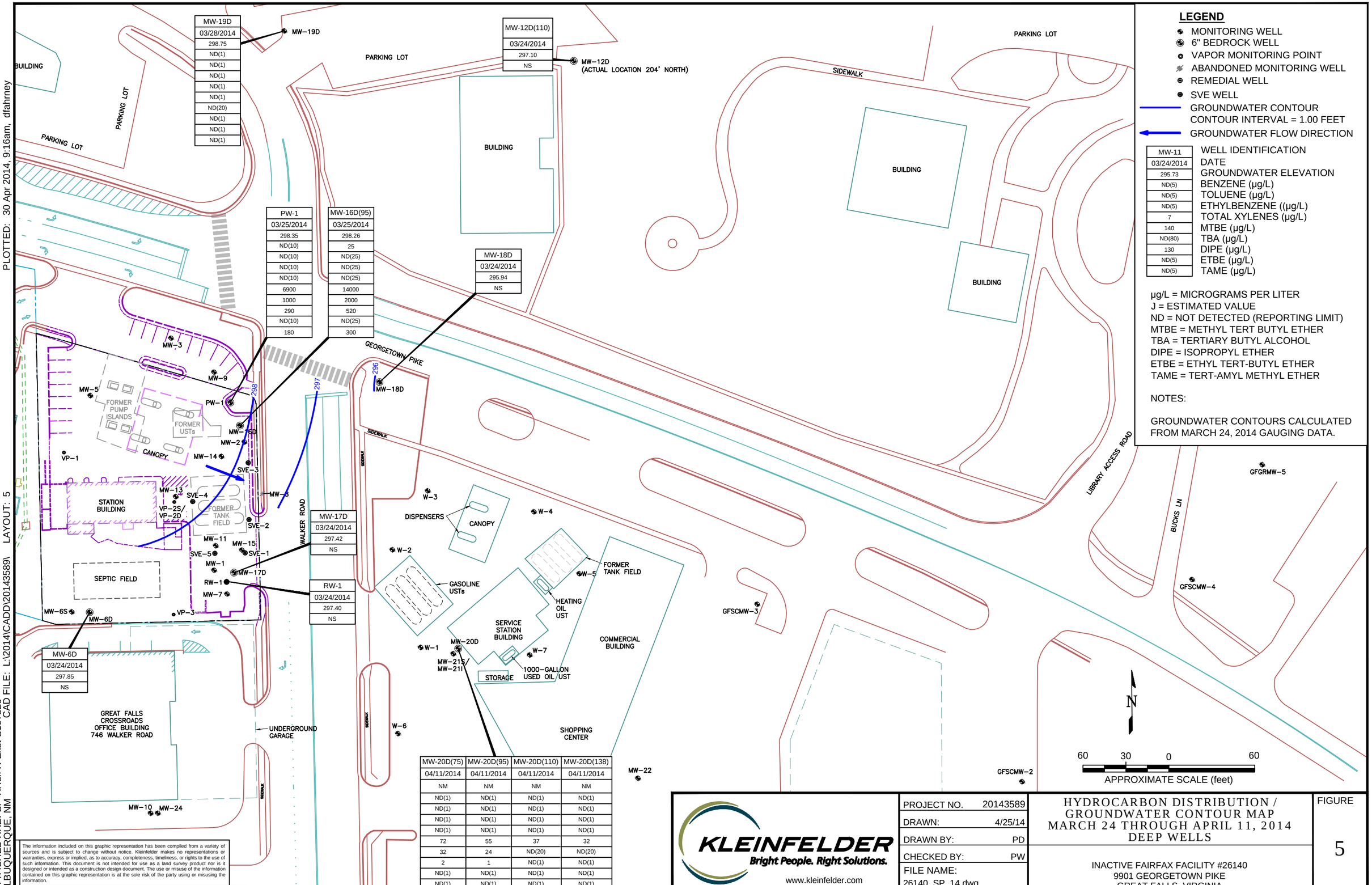

LEGEND

- MONITORING WELL
- 6" BEDROCK WELL
- VAPOR MONITORING POINT
- ABANDONED MONITORING WELL
- REMEDIAL WELL
- SVE WELL
- GROUNDWATER CONTOUR CONTOUR INTERVAL = 1.00 FEET
- GROUNDWATER FLOW DIRECTION

MW-11	WELL IDENTIFICATION
03/24/2014	DATE
295.73	GROUNDWATER ELEVATION
ND(5)	BENZENE (µg/L)
ND(5)	TOLUENE (µg/L)
ND(5)	ETHYLBENZENE ((µg/L)
7	TOTAL XYLENES (µg/L)
140	MTBE (µg/L)
ND(80)	TBA (µg/L)
130	DIPE (µg/L)
ND(5)	ETBE (µg/L)
ND(5)	TAME (µg/L)

µg/L = MICROGRAMS PER LITER
J = ESTIMATED VALUE
ND = NOT DETECTED (REPORTING LIMIT)
MTBE = METHYL TERT BUTYL ETHER
TBA = TERTIARY BUTYL ALCOHOL
DIPE = ISOPROPYL ETHER
ETBE = ETHYL TERT-BUTYL ETHER
TAME = TERT-AMYL METHYL ETHER

NOTES:

GROUNDWATER CONTOURS CALCULATED FROM MARCH 24, 2014 GAUGING DATA.

MW-20D(75)	MW-20D(95)	MW-20D(110)	MW-20D(138)
04/11/2014	04/11/2014	04/11/2014	04/11/2014
NM	NM	NM	NM
ND(1)	ND(1)	ND(1)	ND(1)
ND(1)	ND(1)	ND(1)	ND(1)
ND(1)	ND(1)	ND(1)	ND(1)
ND(1)	ND(1)	ND(1)	ND(1)
72	55	37	32
32	24	ND(20)	ND(20)
2	1	ND(1)	ND(1)
ND(1)	ND(1)	ND(1)	ND(1)
ND(1)	ND(1)	ND(1)	ND(1)

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HYDROCARBON DISTRIBUTION / GROUNDWATER CONTOUR MAP
MARCH 24 THROUGH APRIL 11, 2014
DEEP WELLS

INACTIVE FAIRFAX FACILITY #26140
9901 GEORGETOWN PIKE
GREAT FALLS, VIRGINIA

FIGURE
5

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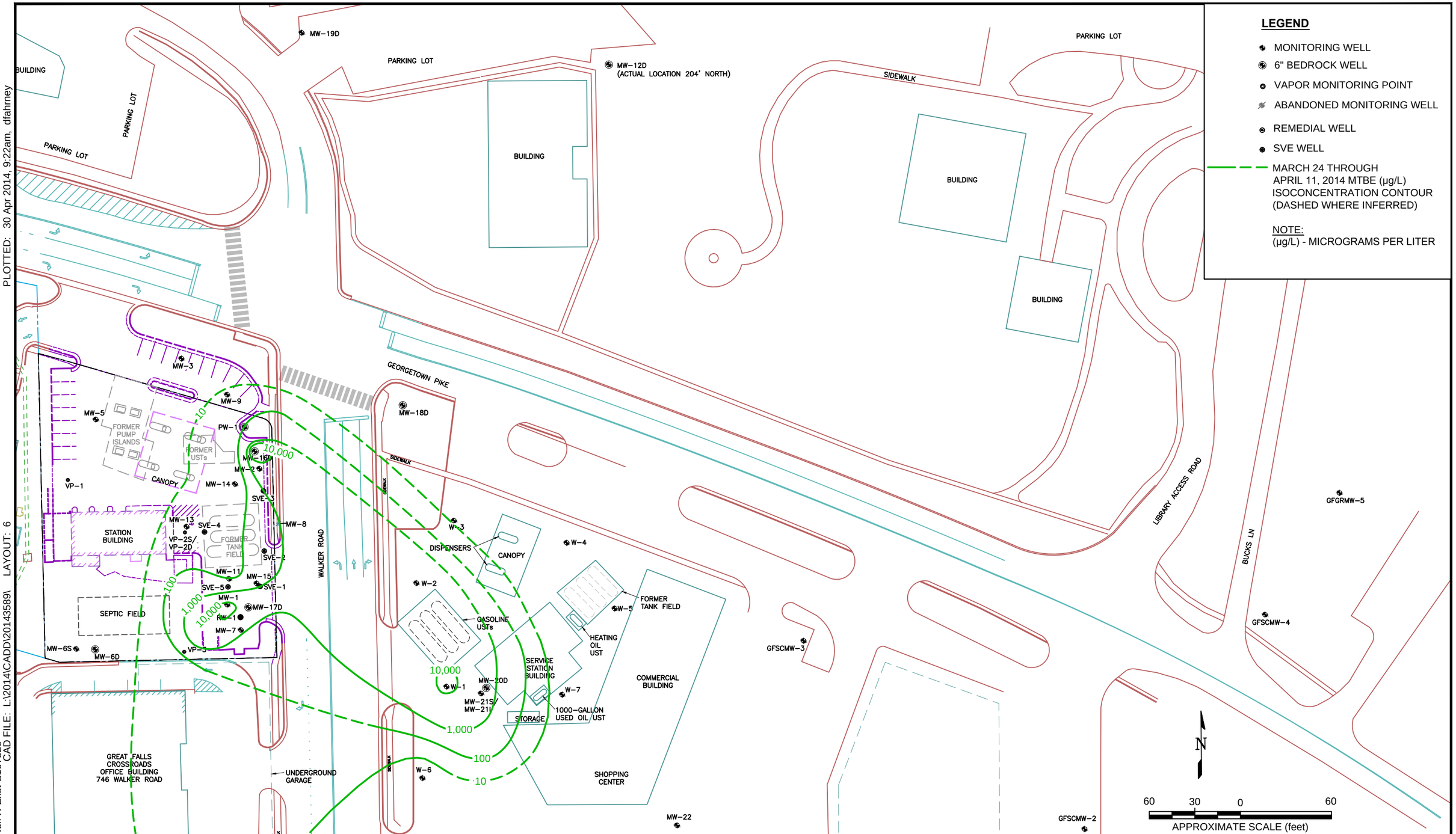

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MTBE ISOCONCENTRATION MAP
MARCH 24 THROUGH APRIL 11, 2014

INACTIVE FAIRFAX FACILITY #26140
9901 GEORGETOWN PIKE
GREAT FALLS, VIRGINIA

FIGURE
6

TABLES

TABLE 1
Monitoring Well Construction Details
Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, VA

Monitoring Well	Installation Date	Well Type	Well Diameter (inch)	Top of Casing Elevation (feet)	Riser / Casing Length (feet)	Screen Length / Open Interval (feet)	Total Borehole Depth (feet below grade)	Screen / Open Interval (feet below grade)	Comments
MW-1	7/20/2009	Monitoring	2	328.99	20	17	37	20-37	
MW-2	7/21/2009	Monitoring	2	332.05	25	15	42	25-40	
MW-3	7/22/2009	Monitoring	2	333.98	25	10	35	25-35	
MW-5	7/22/2009	Monitoring	2	332.35	30	10	42	30-40	
MW-6S	9/11/2009	Monitoring	4	321.85	20	15	35	20-35	
MW-6D	9/11/2009	Deep Monitoring	6	323.09	70	50	120	70-120	Open borehole after 70 feet
MW-7	10/16/2009	Monitoring	2	327.96	15	25	40	15-40	
MW-8	10/8/2009	Monitoring	2	330.54	25	20	45	25-45	Abandoned 9/19/2013
MW-9	10/9/2009	Monitoring	2	333.46	25	20	45	25-45	
MW-10	10/12/2009	Monitoring	2	324.17	10	30	40	10-40	
MW-11	10/14/2009	Monitoring	2	329.64	10	30	40	10-40	
MW-12D	1/11/2011	Deep Monitoring	6	326.43	100	60	160	100-160	Open borehole after 100 feet
MW-13	8/18/2011	Monitoring	4	332.00	25	20	45	25-45	
MW-14	8/18/2011	Monitoring	4	331.81	25	20	45	25-45	
MW-15	8/18/2011	Monitoring	4	328.95	25	20	45	25-45	
MW-16D	11/22/2011	Monitoring	6	332.90	85	25	110	85-110	Open borehole after 85 feet.
MW-17D	4/9/2013	Deep Monitoring	6	328.99	68	82	150	68-150	Open borehole after 68 feet.
MW-18D	11/22/2011	Deep Monitoring	6	334.88	97	58	136	92-150	Open borehole after 92 feet. Borehole blocked by rock at 101 feet during testing on 4/30/13.
MW-19D	3/8/2014	Deep Monitoring	2	341.91	80	20	100	80-100	
MW-20D	4/7/2014	Deep Monitoring	6	329.80	70	72	142	70-142	Open borehole after 70 feet.
MW-21I	4/1/2014	Monitoring	2	329.71	56	10	66	56-66	Part of a nested well pair including MW-21S
MW-21S	4/1/2014	Monitoring	2	329.69	26	20	46	26-46	Part of a nested well pair including MW-21I
MW-22	4/3/2014	Monitoring	2	320.97	20	20	40	20-40	
MW-24	4/3/2014	Monitoring	2	324.49	50	10	60	50-60	
PW-1	Unknown	Deep Monitoring	6	328.95	55	20	75	55 - 75	Former potable well. Partially abandoned in November 2011. Original well depth was approximately 116 feet.
RW-1	3/13/2014	Recovery	6	328.31	21	70	91	21-91	Total drilled depth was 100 feet; borehole collapsed to 91 feet during the installation of screen and casing.

Kleinfelder
1340 Charwood Road, Suite I, Hanover, MD

Table 2

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through April 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**Top of Casing Elevation (feet)**	**Depth to Water (feet)**	**Depth to Hydro-carbon (feet)**	**Hydro-carbon Thickness (feet)**	**Corrected GW Elevation (feet)**	**Benzene (µg/L)**	**Toluene (µg/L)**	**Ethyl-benzene (µg/L)**	**Total Xylenes (µg/L)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-1	07/24/2009	100.00	30.45	ND	ND	69.55	13.3	<1.0	0.53	24	193000	NA	NA	NA	NA	Screened from 20-37'
	08/18/2009	328.99	NM	NM	NM	NM	ND(200)	ND(200)	ND(200)	ND(200)	138000	NA	NA	NA	NA	
	10/15/2009	328.99	31.88	ND	ND	297.11	ND(200)	ND(200)	ND(200)	ND(200)	139000	47000	4070	ND(1000)	2130	
	06/22/2010	328.99	28.65	ND	ND	300.34	ND(5)	ND(7)	ND(8)	ND(8)	13000	NA	NA	NA	NA	
	09/30/2010	328.99	31.11	ND	ND	297.88	ND(50)	ND(70)	ND(80)	110	240000	NA	NA	NA	NA	
	12/16/2010	328.99	30.93	ND	ND	298.06	ND(100)	ND(140)	ND(160)	ND(160)	220000	NA	NA	NA	NA	
	02/17/2011	328.99	31.46	ND	ND	297.53	ND(250)	ND(350)	ND(400)	ND(400)	190000	NA	NA	NA	NA	
	05/24/2011	328.99	30.24	ND	ND	298.75	ND(50)	ND(70)	ND(80)	ND(80)	140000	NA	NA	NA	NA	
	09/02/2011	328.99	32.92	ND	ND	296.07	ND(50)	ND(70)	ND(80)	ND(80)	160000	NA	NA	NA	NA	
	12/29/2011	328.99	30.99	ND	ND	298.00	ND(50)	ND(70)	ND(80)	ND(80)	160000	NA	NA	NA	NA	
	06/01/2012	328.99	31.47	ND	ND	297.52	ND(50)	ND(70)	ND(80)	ND(80)	140000	NA	NA	NA	NA	
	02/25/2013	328.99	32.84	ND	ND	296.15	ND(250)	ND(250)	ND(250)	ND(250)	120000	15000	3700	ND(250)	1700	
	06/06/2013	328.99	32.14	ND	ND	296.85	ND(50)	ND(70)	ND(80)	ND(80)	150000	NA	NA	NA	NA	
	12/19/2013	328.99	33.06	ND	ND	295.93	ND(250)	ND(250)	ND(250)	ND(250)	84000	6900	2200	ND(250)	1100	
	03/25/2014	328.99	31.04	ND	ND	297.95	ND(500)	ND(500)	ND(500)	ND(500)	71000	ND(8000)	1200	ND(500)	850	

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Table 2 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through April 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**Top of Casing Elevation (feet)**	**Depth to Water (feet)**	**Depth to Hydro-carbon (feet)**	**Hydro-carbon Thickness (feet)**	**Corrected GW Elevation (feet)**	**Benzene (µg/L)**	**Toluene (µg/L)**	**Ethyl-benzene (µg/L)**	**Total Xylenes (µg/L)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-2	07/24/2009	102.90	33.19	ND	ND	69.71	70.2	8.0	1.0	131	107000	NA	NA	NA	NA	Screened from 25-40'
	08/18/2009	332.05	NM	NM	NM	NM	ND(100)	ND(100)	ND(100)	ND(100)	87100	NA	NA	NA	NA	
	10/15/2009	332.05	34.41	ND	ND	297.64	ND(200)	ND(200)	ND(200)	ND(200)	122000	ND(5000)	6130	ND(1000)	2420	
	07/01/2010	332.05	31.63	ND	ND	300.42	ND(100)	91.3	ND(100)	ND(100)	52400	NA	NA	NA	NA	
	09/30/2010	332.05	32.96	ND	ND	299.09	ND(25)	ND(35)	ND(40)	ND(40)	37000	NA	NA	NA	NA	
	12/16/2010	332.05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	Well inaccessible
	02/17/2011	332.05	34.15	ND	ND	297.90	ND(100)	ND(140)	ND(160)	ND(160)	140000	NA	NA	NA	NA	
	05/24/2011	332.05	32.92	ND	ND	299.13	ND(25)	ND(35)	ND(40)	ND(40)	54000	NA	NA	NA	NA	
	09/02/2011	332.05	35.53	ND	ND	296.52	ND(50)	ND(70)	ND(80)	ND(80)	160000	NA	NA	NA	NA	
	12/29/2011	332.05	33.64	ND	ND	298.41	ND(25)	ND(35)	ND(40)	ND(40)	49000	NA	NA	NA	NA	
	06/01/2012	332.05	34.16	ND	ND	297.89	ND(50)	ND(70)	ND(80)	ND(80)	100000	NA	NA	NA	NA	
	02/25/2013	332.05	35.47	ND	ND	296.58	ND(250)	ND(250)	ND(250)	ND(250)	71000	4600	1900	ND(250)	1100	
	06/06/2013	332.05	34.91	ND	ND	297.14	ND(3)	ND(4)	ND(4)	ND(4)	3500	NA	NA	NA	NA	
	12/19/2013	332.05	35.50	ND	ND	296.55	ND(130)	ND(130)	ND(130)	ND(130)	19000	6800	710	ND(130)	280	
	03/25/2014	332.05	33.30	ND	ND	298.75	ND(50)	ND(50)	ND(50)	ND(50)	7500	2500	310	ND(50)	110	

Table 2 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through April 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**Top of Casing Elevation (feet)**	**Depth to Water (feet)**	**Depth to Hydro-carbon (feet)**	**Hydro-carbon Thickness (feet)**	**Corrected GW Elevation (feet)**	**Benzene (µg/L)**	**Toluene (µg/L)**	**Ethyl-benzene (µg/L)**	**Total Xylenes (µg/L)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-3	07/24/2009	104.99	33.67	ND	ND	71.32	<0.50	<1.0	<1.0	ND	5.7	NA	NA	NA	NA	Screened from 25-35'
	08/18/2009	333.98	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	10/15/2009	333.98	34.51	ND	ND	299.47	NS	NS	NS	NS	NS	NS	NS	NS	NS	Insufficent volume to sample
	07/01/2010	333.98	32.39	ND	ND	301.59	ND(2)	ND(2)	ND(2)	ND(2)	1.9	NA	NA	NA	NA	
	09/30/2010	333.98	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	12/16/2010	333.98	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	02/17/2011	333.98	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	05/24/2011	333.98	33.63	ND	ND	300.35	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	2 J	NA	NA	NA	NA	
	09/02/2011	333.98	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	12/29/2011	333.98	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	06/01/2012	333.98	34.56	ND	ND	299.42	NS	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient water for sample
	02/25/2013	333.98	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	06/06/2013	333.98	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	12/18/2013	333.98	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	03/24/2014	333.98	34.25	ND	ND	299.73	NS	NS	NS	NS	NS	NS	NS	NS	NS	

Table 2 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through April 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**Top of Casing Elevation (feet)**	**Depth to Water (feet)**	**Depth to Hydro-carbon (feet)**	**Hydro-carbon Thickness (feet)**	**Corrected GW Elevation (feet)**	**Benzene (µg/L)**	**Toluene (µg/L)**	**Ethyl-benzene (µg/L)**	**Total Xylenes (µg/L)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-5	07/24/2009	103.43	30.72	ND	ND	72.71	<0.50	<1.0	<1.0	ND	1.3	NA	NA	NA	NA	Screened from 30-40'
	08/18/2009	332.35	NM	NM	NM	NM	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.48	NA	NA	NA	NA	
	10/15/2009	332.35	32.51	ND	ND	299.84	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	11.4	ND(25)	0.46	ND(5.0)	ND(5.0)	
	06/22/2010	332.35	29.40	ND	ND	302.95	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1 J	NA	NA	NA	NA	
	09/30/2010	332.35	32.30	ND	ND	300.05	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1	NA	NA	NA	NA	
	12/16/2010	332.35	32.12	ND	ND	300.23	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	12	NA	NA	NA	NA	
	02/17/2011	332.35	32.31	ND	ND	300.04	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	2 J	NA	NA	NA	NA	
	05/24/2011	332.35	30.84	ND	ND	301.51	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	0.9 J	NA	NA	NA	NA	
	09/02/2011	332.35	33.39	ND	ND	298.96	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	0.9 J	NA	NA	NA	NA	
	12/29/2011	332.35	31.36	ND	ND	300.99	ND(0.5)	1 J	ND(0.8)	1 J	7	NA	NA	NA	NA	
	06/01/2012	332.35	31.93	ND	ND	300.42	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	0.8 J	NA	NA	NA	NA	
	02/25/2013	332.35	33.28	ND	ND	299.07	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
	06/06/2013	332.35	32.55	ND	ND	299.80	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1 J	NA	NA	NA	NA	
	12/18/2013	332.35	33.92	ND	ND	298.43	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
	03/24/2014	332.35	31.32	ND	ND	301.03	NS	NS	NS	NS	NS	NS	NS	NS	NS	

Table 2 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
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Great Falls, Virginia
January 18, 2003 through April 11, 2014

		Gauging Data					Analytical Data									
Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Comments
MW-6S	09/24/2009	NM	NM	NM	NM	NM	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	2.8	ND(25)	2.1	ND(5.0)	ND(5.0)	Screened from 20-35'
	10/15/2009	321.85	23.35	ND	ND	298.50	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	2.8	ND(25)	1.3	ND(5.0)	ND(5.0)	
	06/22/2010	321.85	20.22	ND	ND	301.63	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	2	NA	NA	NA	NA	
	09/30/2010	321.85	23.00	ND	ND	298.85	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	0.9	NA	NA	NA	NA	
	12/16/2010	321.85	22.82	ND	ND	299.03	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1	NA	NA	NA	NA	
	02/17/2011	321.85	23.02	ND	ND	298.83	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1 J	NA	NA	NA	NA	
	05/24/2011	321.85	21.66	ND	ND	300.19	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1 J	NA	NA	NA	NA	
	09/02/2011	321.85	24.04	ND	ND	297.81	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1 J	NA	NA	NA	NA	
	12/29/2011	321.85	22.15	ND	ND	299.70	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	2 J	NA	NA	NA	NA	
	06/01/2012	321.85	22.72	ND	ND	299.13	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	0.8 J	NA	NA	NA	NA	
	02/25/2013	321.85	24.03	ND	ND	297.82	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
	06/06/2013	321.85	23.49	ND	ND	298.36	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
	12/17/2013	321.85	24.63	ND	ND	297.22	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
	03/24/2014	321.85	22.19	ND	ND	299.66	NS	NS	NS	NS	NS	NS	NS	NS	NS	
MW-7	10/15/2009	327.96	31.21	ND	ND	296.75	2.7	ND(10)	ND(10)	ND(10)	10600	2650	232	ND(50)	217	Screened from 15-40'
	06/22/2010	327.96	28.00	ND	ND	299.96	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	87	NA	NA	NA	NA	
	09/30/2010	327.96	30.24	ND	ND	297.72	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
	12/16/2010	327.96	30.15	ND	ND	297.81	2	ND(1)	ND(2)	ND(2)	2100	NA	NA	NA	NA	
	02/17/2011	327.96	30.75	ND	ND	297.21	ND(10)	ND(14)	ND(16)	ND(16)	9700	NA	NA	NA	NA	
	05/24/2011	327.96	29.56	ND	ND	298.40	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	130	NA	NA	NA	NA	
	09/02/2011	327.96	32.21	ND	ND	295.75	11 J	ND(14)	ND(16)	ND(16)	16000	NA	NA	NA	NA	
	12/29/2011	327.96	30.24	ND	ND	297.72	ND(1)	ND(1)	ND(2)	ND(2)	1600	NA	NA	NA	NA	
	06/01/2012	327.96	30.74	ND	ND	297.22	ND(5)	ND(7)	ND(8)	ND(8)	6700	NA	NA	NA	NA	
	02/25/2013	327.96	32.23	ND	ND	295.73	ND(250)	ND(250)	ND(250)	ND(250)	61000	14000	1700	ND(250)	940	
	06/06/2013	327.96	31.49	ND	ND	296.47	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	950	NA	NA	NA	NA	
	12/18/2013	327.96	32.79	ND	ND	295.17	ND(250)	ND(250)	ND(250)	ND(250)	140000	29000	3000	ND(250)	1600	
	03/28/2014	327.96	30.35	ND	ND	297.61	ND(1)	ND(1)	ND(1)	ND(1)	430	ND(20)	13	ND(1)	6	

Table 2 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through April 11, 2014

		Gauging Data					Analytical Data									
Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Comments
MW-8	10/15/2009	330.54	34.01	ND	ND	296.53	ND(500)	ND(500)	ND(500)	ND(500)	226000	30800	6250	ND(2500)	3080	Screened from 25-45'
	06/22/2010	330.54	30.91	ND	ND	299.63	ND(5)	ND(7)	ND(8)	ND(8)	15000	NA	NA	NA	NA	
	09/30/2010	330.54	32.97	ND	ND	297.57	11	ND(14)	ND(16)	ND(16)	44000	NA	NA	NA	NA	
	12/16/2010	330.54	32.85	ND	ND	297.69	ND(25)	ND(35)	ND(40)	ND(40)	49000	NA	NA	NA	NA	
	02/17/2011	330.54	33.62	ND	ND	296.92	ND(25)	ND(35)	ND(40)	ND(40)	41000	NA	NA	NA	NA	
	05/24/2011	330.54	32.44	ND	ND	298.10	ND(5)	ND(7)	ND(8)	ND(8)	8400	NA	NA	NA	NA	
	09/02/2011	330.54	35.18	ND	ND	295.36	ND(10)	ND(14)	ND(16)	ND(16)	15000	NA	NA	NA	NA	
	12/29/2011	330.54	33.23	ND	ND	297.31	ND(3)	ND(4)	ND(4)	ND(4)	1800	NA	NA	NA	NA	
	06/01/2012	330.54	33.73	ND	ND	296.81	3 J	ND(1)	ND(2)	4 J	1200	NA	NA	NA	NA	
	02/25/2013	330.54	35.27	ND	ND	295.27	ND(5)	ND(5)	ND(5)	ND(5)	180	280	220	ND(5)	ND(5)	
	06/06/2013	330.54	34.49	ND	ND	296.05	0.7 J	ND(0.7)	ND(0.8)	ND(0.8)	160	NA	NA	NA	NA	
	09/19/2013	330.54	36.01	ND	ND	294.53	ND(5)	ND(5)	ND(5)	ND(5)	170	NA	NA	NA	NA	Abandoned (9/19/2013)
SVE-2	03/25/2014	329.69	31.32	ND	ND	298.37	ND(1)	ND(1)	ND(1)	ND(1)	600	76	44	ND(1)	11	Screened from 25-45'
MW-9	10/15/2009	333.46	35.60	ND	ND	297.86	ND(1.0)	0.33	ND(1.0)	0.38	64.7	ND(25)	125	ND(5.0)	2.9	Screened from 25-45'
	06/22/2010	333.46	32.32	ND	ND	301.14	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	22	NA	NA	NA	NA	
	09/30/2010	333.46	34.85	ND	ND	298.61	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	52	NA	NA	NA	NA	
	12/16/2010	333.46	34.73	ND	ND	298.73	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	81	NA	NA	NA	NA	
	02/17/2011	333.46	35.28	ND	ND	298.18	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	48	NA	NA	NA	NA	
	05/24/2011	333.46	34.04	ND	ND	299.42	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	26	NA	NA	NA	NA	
	09/02/2011	333.46	36.86	ND	ND	296.60	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	80	NA	NA	NA	NA	
	12/29/2011	333.46	34.68	ND	ND	298.78	ND(0.5)	2 J	ND(0.8)	1 J	58	NA	NA	NA	NA	
	06/01/2012	333.46	35.17	ND	ND	298.29	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	190	NA	NA	NA	NA	
	02/25/2013	333.46	36.65	ND	ND	296.81	ND(5)	ND(5)	ND(5)	ND(5)	55	ND(80)	17	ND(5)	ND(5)	
	06/06/2013	333.46	35.98	ND	ND	297.48	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	20	NA	NA	NA	NA	
	12/18/2013	333.46	37.33	ND	ND	296.13	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
	03/24/2014	333.46	34.67	ND	ND	298.79	ND(5)	ND(5)	ND(5)	ND(5)	12	ND(80)	6	ND(5)	ND(5)	

Table 2 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through April 11, 2014

		Gauging Data					Analytical Data									
Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Comments
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)	10.3	ND(25)	ND(5.0)	ND(5.0)	ND(5.0)	Screened from 10-40'
	06/22/2010	324.17	25.80	ND	ND	298.37	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	4	NA	NA	NA	NA	
	12/16/2010	324.17	27.72	ND	ND	296.45	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	10	NA	NA	NA	NA	
	02/17/2011	324.17	28.05	ND	ND	296.12	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	7	NA	NA	NA	NA	
	05/24/2011	324.17	27.04	ND	ND	297.13	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	3 J	NA	NA	NA	NA	
	09/02/2011	324.17	29.60	ND	ND	294.57	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	8	NA	NA	NA	NA	
	12/29/2011	324.17	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	Well inaccessible
	06/01/2012	324.17	28.17	ND	ND	296.00	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	4 J	NA	NA	NA	NA	
	02/25/2013	324.17	29.45	ND	ND	294.72	ND(5)	ND(5)	ND(5)	ND(5)	7	ND(80)	ND(5)	ND(5)	ND(5)	
	06/06/2013	324.17	28.87	ND	ND	295.30	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
	12/18/2013	324.17	30.04	ND	ND	294.13	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
	03/24/2014	324.17	27.24	ND	ND	296.93	NS	NS	NS	NS	NS	NS	NS	NS	NS	
MW-11	10/16/2009	NM	NM	NM	NM	NM	15.3	ND(10)	ND(10)	10.9	38400	23300	1290	ND(50)	464	Screened from 10-40'
	06/22/2010	329.64	29.00	ND	ND	300.64	ND(50)	ND(70)	ND(80)	ND(80)	170000	NA	NA	NA	NA	
	09/30/2010	329.64	31.42	ND	ND	298.22	ND(50)	ND(70)	ND(80)	ND(80)	130000	NA	NA	NA	NA	
	12/16/2010	329.64	31.22	ND	ND	298.42	ND(25)	ND(35)	ND(40)	ND(40)	41000	NA	NA	NA	NA	
	02/17/2011	329.64	31.81	ND	ND	297.83	ND(10)	ND(14)	ND(16)	ND(16)	23000	NA	NA	NA	NA	
	05/24/2011	329.64	30.56	ND	ND	299.08	ND(13)	ND(18)	ND(20)	ND(20)	16000	NA	NA	NA	NA	
	09/02/2011	329.64	33.22	ND	ND	296.42	4 J	ND(4)	ND(4)	ND(4)	7400	NA	NA	NA	NA	
	12/29/2011	329.64	31.29	ND	ND	298.35	ND(10)	ND(14)	ND(16)	ND(16)	9000	NA	NA	NA	NA	
	06/01/2012	329.64	31.77	ND	ND	297.87	7 J	21 J	ND(8)	34 J	4200	NA	NA	NA	NA	
	02/25/2013	329.64	33.03	ND	ND	296.61	ND(10)	ND(10)	ND(10)	ND(10)	1400	180	530	ND(10)	22	
	06/06/2013	329.64	32.46	ND	ND	297.18	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	770	NA	NA	NA	NA	
	12/18/2013	329.64	33.91	ND	ND	295.73	ND(5)	ND(5)	ND(5)	7	140	ND(80)	130	ND(5)	ND(5)	
	03/24/2014	329.64	31.19	ND	ND	298.45	ND(5)	ND(5)	ND(5)	ND(5)	41	ND(80)	25	ND(5)	ND(5)	

Table 2 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through April 11, 2014

		Gauging Data					Analytical Data									
Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Comments
MW-13	09/02/2011	332.00	34.37	ND	ND	297.63	5	ND(0.7)	ND(0.8)	5	6800	NA	NA	NA	NA	Screened from 25-45'
	12/29/2011	332.00	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	Well inaccessible
	06/01/2012	332.00	32.88	ND	ND	299.12	ND(5)	ND(7)	ND(8)	ND(8)	5700	NA	NA	NA	NA	
	02/25/2013	332.00	33.80	ND	ND	298.20	ND(25)	ND(25)	ND(25)	ND(25)	5300	ND(400)	150	ND(25)	80	
	06/06/2013	332.00	33.33	ND	ND	298.67	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1300	NA	NA	NA	NA	
	12/19/2013	332.00	34.43	ND	ND	297.57	ND(5)	ND(5)	ND(5)	ND(5)	1100	ND(80)	43	ND(5)	18	
	03/24/2014	332.00	32.29	ND	ND	299.71	ND(5)	ND(5)	ND(5)	ND(5)	21	ND(80)	ND(5)	ND(5)	ND(5)	
MW-14	09/02/2011	331.81	35.02	ND	ND	296.79	54	ND(4)	ND(4)	55	170000	NA	NA	NA	NA	Screened from 25-45'
	12/29/2011	331.81	33.36	ND	ND	298.45	ND(50)	ND(70)	ND(80)	ND(80)	99000	NA	NA	NA	NA	
	06/01/2012	331.81	33.90	ND	ND	297.91	ND(50)	ND(70)	ND(80)	ND(80)	91000	NA	NA	NA	NA	
	02/25/2013	331.81	35.07	ND	ND	296.74	ND(50)	ND(50)	ND(50)	ND(50)	29000	2500	1100	ND(50)	450	
	06/06/2013	331.81	34.35	ND	ND	297.46	ND(1)	ND(1)	ND(2)	ND(2)	3600	NA	NA	NA	NA	
	12/19/2013	331.81	35.15	ND	ND	296.66	ND(5)	ND(5)	ND(5)	ND(5)	33	ND(80)	11	ND(5)	ND(5)	
	03/24/2014	331.82	32.91	ND	ND	298.91	ND(5)	ND(5)	ND(5)	ND(5)	14	ND(80)	ND(5)	ND(5)	ND(5)	
MW-15	09/02/2011	328.95	33.06	ND	ND	295.89	ND(0.5)	ND(0.7)	ND(0.8)	1 J	21000	NA	NA	NA	NA	Screened from 25-45'
	12/29/2011	328.95	31.10	ND	ND	297.85	ND(1)	ND(1)	ND(2)	ND(2)	1100	NA	NA	NA	NA	
	06/01/2012	328.95	31.64	ND	ND	297.31	ND(10)	ND(14)	ND(16)	ND(16)	14000	NA	NA	NA	NA	
	02/25/2013	328.95	33.10	ND	ND	295.85	ND(10)	ND(10)	ND(10)	ND(10)	1800	300	140	ND(10)	28	
	06/06/2013	328.95	32.32	ND	ND	296.63	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	120	NA	NA	NA	NA	
	12/18/2013	328.95	33.86	ND	ND	295.09	ND(10)	ND(10)	ND(10)	14	1700	260	210	ND(10)	27	
	03/25/2014	328.95	30.90	ND	ND	298.05	ND(5)	ND(5)	ND(5)	ND(5)	350	ND(80)	50	ND(5)	5	
MW-21S	04/11/2014	329.69	33.65	ND	ND	296.04	ND(10)	ND(10)	ND(10)	ND(10)	7500	6200	79	ND(10)	78	Screened from 26-46'
MW-21I	04/11/2014	329.71	33.71	ND	ND	296.00	ND(2)	ND(2)	ND(2)	ND(2)	2500	1700	31	ND(2)	28	Screened from 56-66'
MW-22	04/11/2014	320.97	28.55	ND	ND	292.42	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	Screened from 20-40'
MW-24	04/11/2014	324.49	27.66	ND	ND	296.83	ND(1)	1	ND(1)	ND(1)	29	ND(20)	1	ND(1)	ND(1)	Screened from 50-60'

Table 2 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through April 11, 2014

		Gauging Data					Analytical Data									
Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Comments
W-1	01/18/2003	328.53	33.83	ND	ND	294.70	ND(5)	ND(5)	ND(5)	ND(10)	13000	9100	81	ND(5)	240	Screened from 10-40'
	08/05/2008	328.53	34.81	ND	ND	293.72	9.6	ND(5.0)	ND(5.0)	ND(5.0)	5200	NA	NA	NA	NA	
	06/07/2013	328.53	34.52	ND	ND	294.01	ND(10)	ND(14)	ND(16)	ND(16)	26000	NA	NA	NA	NA	
	12/19/2013	328.53	36.11	ND	ND	292.42	ND(100)	ND(100)	ND(100)	ND(100)	13000	6900	150	ND(100)	130	
	03/25/2014	328.53	33.50	ND	ND	295.03	ND(25)	ND(25)	ND(25)	ND(25)	16000	15000	170	ND(25)	170	
W-2	01/18/2003	329.47	34.56	ND	ND	294.91	ND(5)	ND(5)	ND(5)	ND(10)	100	ND(100)	ND(5)	ND(5)	ND(5)	Screened from 10-40'
	08/05/2008	329.47	35.53	ND	ND	293.94	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	320	NA	NA	NA	NA	
	06/07/2013	329.47	35.30	ND	ND	294.17	ND(5)	ND(7)	ND(8)	ND(8)	14000	NA	NA	NA	NA	
	12/19/2013	329.47	36.82	ND	ND	292.65	ND(50)	ND(50)	ND(50)	ND(50)	7700	ND(800)	130	ND(50)	74	
	03/25/2014	329.47	34.26	ND	ND	295.21	ND(100)	ND(100)	ND(100)	ND(100)	7000	ND(1600)	130	ND(100)	ND(100)	
W-3	01/18/2003	330.14	35.88	ND	ND	294.26	ND(5)	ND(5)	ND(5)	ND(10)	ND(5)	ND(100)	ND(5)	ND(5)	ND(5)	Screened from 10-45'
	08/05/2008	330.14	35.92	ND	ND	294.22	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	22	NA	NA	NA	NA	
	06/07/2013	330.14	35.84	ND	ND	294.30	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	2 J	NA	NA	NA	NA	
	12/18/2013	330.14	37.22	ND	ND	292.92	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
	03/24/2014	330.14	34.57	ND	ND	295.57	NS	NS	NS	NS	NS	NS	NS	NS	NS	
W-4	01/18/2003	327.67	34.12	ND	ND	293.55	71	920	850	8700	55	790	ND(5)	ND(5)	ND(5)	Screened from 10-40'
	08/05/2008	327.67	34.25	ND	ND	293.42	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	22	NA	NA	NA	NA	
	06/07/2013	327.67	34.08	ND	ND	293.59	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
	12/18/2013	327.67	35.91	ND	ND	291.76	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
	03/24/2014	327.67	33.24	ND	ND	294.43	NS	NS	NS	NS	NS	NS	NS	NS	NS	
W-5	08/05/2008	327.81	35.93	ND	ND	291.88	320	3000	3000	16000	ND(5.0)	NA	NA	NA	NA	Interval not available
	06/07/2013	327.81	35.30	ND	ND	292.51	180	96	270	11000	ND(0.5)	NA	NA	NA	NA	
	12/18/2013	327.81	37.46	ND	ND	290.35	290	160	860	6000	ND(13)	ND(200)	ND(13)	ND(13)	ND(13)	
	03/24/2014	327.81	34.75	ND	ND	293.06	NS	NS	NS	NS	NS	NS	NS	NS	NS	
W-6	08/05/2008	325.21	31.63	ND	ND	293.58	ND(5.0)	ND(5.0)	ND(5.0)	18.6	16	NA	NA	NA	NA	Interval not available
	06/07/2013	325.21	31.12	ND	ND	294.09	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	6	NA	NA	NA	NA	
	12/18/2013	325.21	32.12	ND	ND	293.09	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
	03/25/2014	325.21	29.37	ND	ND	295.84	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	

Table 2 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through April 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**Top of Casing Elevation (feet)**	**Depth to Water (feet)**	**Depth to Hydro-carbon (feet)**	**Hydro-carbon Thickness (feet)**	**Corrected GW Elevation (feet)**	**Benzene (µg/L)**	**Toluene (µg/L)**	**Ethyl-benzene (µg/L)**	**Total Xylenes (µg/L)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
W-7	08/05/2008	329.77	37.35	ND	ND	292.42	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	16	NA	NA	NA	NA	Interval not available
	06/06/2013	329.77	37.04	ND	ND	292.73	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
	12/18/2013	329.77	38.24	ND	ND	291.53	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
	03/24/2014	329.77	35.60	ND	ND	294.17	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
GFSCMW-2	03/24/2014	316.79	30.18	ND	ND	286.61	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	Interval not available
GFSCMW-3	03/24/2014	319.78	29.14	ND	ND	290.64	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	Interval not available
GFGPMW-4	03/24/2014	310.10	18.87	ND	ND	291.23	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	Screened from 5.5-20.5'
GFGPMW-5	03/24/2014	310.72	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	Screened from 5-25'

Table 2 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through April 11, 2014

Notes:

µg/L - micrograms per liter (µg/L)
DIPE - Isopropyl ether
ETBE - Ethyl tert-butyl ether
GW - Groundwater
J - Indicates an estimated value
MTBE - Methyl Tertiary Butyl Ether
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
TAME - Tert-Amyl methyl ether
TBA - Tert-Butyl alcohol

Kleinfelder
1340 Charwood Road, Suite I, Hanover, MD

Table 3

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through April 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**Top of Casing Elevation (feet)**	**Depth to Water (feet)**	**Depth to Hydro-carbon (feet)**	**Hydro-carbon Thickness (feet)**	**Corrected GW Elevation (feet)**	**Benzene (µg/L)**	**Toluene (µg/L)**	**Ethyl-benzene (µg/L)**	**Total Xylenes (µg/L)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-6D(65)	06/22/2010	323.09	26.69	ND	ND	296.40	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1	NA	NA	NA	NA	Open from 70-120'
	09/30/2010	323.09	26.52	ND	ND	296.57	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1	NA	NA	NA	NA	
	12/16/2010	323.09	25.92	ND	ND	297.17	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1	NA	NA	NA	NA	
	02/17/2011	323.09	26.14	ND	ND	296.95	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1 J	NA	NA	NA	NA	
	05/24/2011	323.09	25.83	ND	ND	297.26	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1 J	NA	NA	NA	NA	
	09/02/2011	323.09	27.45	ND	ND	295.64	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	0.9 J	NA	NA	NA	NA	
	12/22/2011	323.09	25.47	ND	ND	297.62	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	0.8 J	NA	NA	NA	NA	
	06/01/2012	323.09	25.95	ND	ND	297.14	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	0.8 J	NA	NA	NA	NA	
	02/25/2013	323.09	27.13	ND	ND	295.96	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
	06/06/2013	323.09	26.66	ND	ND	296.43	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
	12/17/2013	323.09	27.85	ND	ND	295.24	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	03/24/2014	323.09	25.24	ND	ND	297.85	NS	NS	NS	NS	NS	NS	NS	NS	NS	
MW-6D(75)	09/24/2009	NM	NM	NM	NM	NM	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	3.0	ND(25)	0.56	ND(5.0)	ND(5.0)	
	10/15/2009	323.09	26.69	ND	ND	296.40	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	2.8	ND(25)	0.49	ND(5.0)	ND(5.0)	
MW-6D(85)	06/22/2010	323.09	26.69	ND	ND	296.40	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1	NA	NA	NA	NA	
	09/30/2010	323.09	26.51	ND	ND	296.58	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1	NA	NA	NA	NA	
	12/16/2010	323.09	25.92	ND	ND	297.17	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	6	NA	NA	NA	NA	
	02/17/2011	323.09	26.14	ND	ND	296.95	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1 J	NA	NA	NA	NA	
	05/24/2011	323.09	25.83	ND	ND	297.26	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1 J	NA	NA	NA	NA	
	09/02/2011	323.09	27.45	ND	ND	295.64	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	0.9 J	NA	NA	NA	NA	
	12/22/2011	323.09	25.47	ND	ND	297.62	ND(0.5)	1 J	ND(0.8)	ND(0.8)	0.8 J	NA	NA	NA	NA	
	06/01/2012	323.09	25.95	ND	ND	297.14	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	0.8 J	NA	NA	NA	NA	
	02/25/2013	323.09	27.13	ND	ND	295.96	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
	06/06/2013	323.09	26.66	ND	ND	296.43	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through April 11, 2014

		Gauging Data					Analytical Data									
Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Comments
MW-6D(105)	06/22/2010	323.09	26.69	ND	ND	296.40	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	2 J	NA	NA	NA	NA	
	09/30/2010	323.09	26.52	ND	ND	296.57	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1	NA	NA	NA	NA	
	12/16/2010	323.09	25.92	ND	ND	297.17	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1	NA	NA	NA	NA	
	02/17/2011	323.09	26.14	ND	ND	296.95	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1 J	NA	NA	NA	NA	
	05/24/2011	323.09	25.83	ND	ND	297.26	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1 J	NA	NA	NA	NA	
	09/02/2011	323.09	27.45	ND	ND	295.64	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	0.9 J	NA	NA	NA	NA	
	12/22/2011	323.09	25.47	ND	ND	297.62	ND(0.5)	1 J	ND(0.8)	ND(0.8)	0.9 J	NA	NA	NA	NA	
	06/01/2012	323.09	25.95	ND	ND	297.14	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	0.9 J	NA	NA	NA	NA	
	02/25/2013	323.09	27.13	ND	ND	295.96	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
	06/06/2013	323.09	26.66	ND	ND	296.43	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
MW-6D(110)	09/24/2009	NM	NM	NM	NM	NM	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	3.0	ND(25)	0.57	ND(5.0)	ND(5.0)	
	10/15/2009	323.09	26.69	ND	ND	296.40	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	2.8	ND(25)	0.50	ND(5.0)	ND(5.0)	
MW-12D(110)	05/24/2011	326.43	28.12	ND	ND	298.31	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	Open from 100-160'
	09/02/2011	326.43	32.37	ND	ND	294.06	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
	12/22/2011	326.43	29.63	ND	ND	296.80	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
	06/01/2012	326.43	29.75	ND	ND	296.68	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
	02/25/2013	326.43	30.86	ND	ND	295.57	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
	06/06/2013	326.43	30.59	ND	ND	295.84	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
	12/17/2013	326.43	31.51	ND	ND	294.92	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	03/24/2014	326.43	29.33	ND	ND	297.10	NS	NS	NS	NS	NS	NS	NS	NS	NS	
MW-12D(127)	12/22/2011	326.43	29.63	ND	ND	296.80	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
MW-12D(141)	12/22/2011	326.43	29.63	ND	ND	296.80	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
MW-12D(153)	05/24/2011	326.43	28.12	ND	ND	298.31	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
	09/02/2011	326.43	32.37	ND	ND	294.06	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
	06/01/2012	326.43	29.75	ND	ND	296.68	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
	02/25/2013	326.43	30.86	ND	ND	295.57	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
	06/06/2013	326.43	30.59	ND	ND	295.84	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	

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Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through April 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**Top of Casing Elevation (feet)**	**Depth to Water (feet)**	**Depth to Hydro-carbon (feet)**	**Hydro-carbon Thickness (feet)**	**Corrected GW Elevation (feet)**	**Benzene (µg/L)**	**Toluene (µg/L)**	**Ethyl-benzene (µg/L)**	**Total Xylenes (µg/L)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-16D(89)	12/22/2011	332.90	34.88	ND	ND	298.02	ND(3)	ND(4)	ND(4)	ND(4)	2600	NA	NA	NA	NA	
MW-16D(95)	06/01/2012	332.90	35.33	ND	ND	297.57	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	140	NA	NA	NA	NA	Abandoned to 110' (April 2011)
	02/25/2013	332.90	36.83	ND	ND	296.07	ND(100)	ND(100)	ND(100)	ND(100)	9800	ND(1600)	360	ND(100)	200	Open from 85-110'
	06/06/2013	332.90	36.15	ND	ND	296.75	18 J	ND(7)	ND(8)	ND(8)	11000	NA	NA	NA	NA	
	12/19/2013	332.90	37.13	ND	ND	295.77	ND(130)	ND(130)	ND(130)	ND(130)	19000	2800	770	ND(130)	390	
	03/25/2014	332.90	34.64	ND	ND	298.26	25	ND(25)	ND(25)	ND(25)	14000	2000	520	ND(25)	300	
MW-16D(110)	12/22/2011	332.90	34.88	ND	ND	298.02	ND(3)	ND(4)	ND(4)	ND(4)	2600	NA	NA	NA	NA	Abandoned to 110' (April 2011)
MW-16D(125)	12/22/2011	332.90	34.88	ND	ND	298.02	ND(3)	ND(4)	ND(4)	ND(4)	2500	NA	NA	NA	NA	Abandoned to 110' (April 2011)
MW-17D	12/19/2013	328.99	34.15	ND	ND	294.84	NS	NS	NS	NS	NS	NS	NS	NS	NS	Open from 68-150'
	03/24/2014	328.99	31.57	ND	ND	297.42	NS	NS	NS	NS	NS	NS	NS	NS	NS	CMT installed 4/9/14
MW-18D	06/06/2013	334.88	40.69	ND	ND	294.19	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
	12/18/2013	334.88	41.60	ND	ND	293.28	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	03/24/2014	334.88	38.94	ND	ND	295.94	NS	NS	NS	NS	NS	NS	NS	NS	NS	
MW-18D(1V)	05/10/2013	334.88	40.57	ND	ND	294.31	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
MW-18D(3V)	05/10/2013	334.88	40.57	ND	ND	294.31	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
MW-19D	03/28/2014	341.91	43.16	ND	ND	298.75	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
MW-20D(75)	04/11/2014	329.80	NM	NM	NM	NM	ND(1)	ND(1)	ND(1)	ND(1)	72	32	2	ND(1)	ND(1)	Hydrasleeve:Open from 70-142'
MW-20D(95)	04/11/2014	329.80	NM	NM	NM	NM	ND(1)	ND(1)	ND(1)	ND(1)	55	24	1	ND(1)	ND(1)	Hydrasleeve
MW-20D(110)	04/11/2014	329.80	NM	NM	NM	NM	ND(1)	ND(1)	ND(1)	ND(1)	37	ND(20)	ND(1)	ND(1)	ND(1)	Hydrasleeve
MW-20D(138)	04/11/2014	329.80	NM	NM	NM	NM	ND(1)	ND(1)	ND(1)	ND(1)	32	ND(20)	ND(1)	ND(1)	ND(1)	Hydrasleeve
PW-1	08/17/2009	NM	NM	NM	NM	NM	0.76	ND(0.50)	ND(0.50)	0.46 J	1320	80.9	148	ND(0.50)	36.8	Abandoned to 75' (Nov 2011)

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through April 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**Top of Casing Elevation (feet)**	**Depth to Water (feet)**	**Depth to Hydro-carbon (feet)**	**Hydro-carbon Thickness (feet)**	**Corrected GW Elevation (feet)**	**Benzene (µg/L)**	**Toluene (µg/L)**	**Ethyl-benzene (µg/L)**	**Total Xylenes (µg/L)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
PW-1(65)	10/16/2009	334.54	NM	NM	NM	NM	8	ND	ND	8.4	2520	NA	NA	NA	NA	Open from 55-75'
	06/22/2010	334.54	34.47	ND	ND	300.07	8	ND(0.7)	ND(0.8)	7	1600	NA	NA	NA	NA	
	09/30/2010	334.54	36.84	ND	ND	297.70	9	ND(0.7)	ND(0.8)	5	1600	NA	NA	NA	NA	
	12/16/2010	334.54	36.51	ND	ND	298.03	6	ND(1)	ND(2)	5	1700	NA	NA	NA	NA	
	05/24/2011	334.54	35.87	ND	ND	298.67	8 J	ND(4)	ND(4)	4 J	2100	NA	NA	NA	NA	
	09/02/2011	334.54	38.61	ND	ND	295.93	6	ND(0.7)	ND(0.8)	3 J	1800	NA	NA	NA	NA	Abandoned to 75' (Nov 2011)
	12/22/2011	334.54	36.37	ND	ND	298.17	4 J	ND(4)	ND(4)	ND(4)	1300	NA	NA	NA	NA	
	06/01/2012	334.54	36.82	ND	ND	297.72	3 J	ND(1)	ND(2)	ND(2)	860	NA	NA	NA	NA	
	02/25/2013	334.54	38.28	ND	ND	296.26	ND(5)	ND(5)	ND(5)	ND(5)	800	110	140	ND(5)	51	
	06/06/2013	334.54	37.41	ND	ND	297.13	3 J	ND(0.7)	ND(0.8)	ND(0.8)	1200	NA	NA	NA	NA	
	12/19/2013	334.54	38.60	ND	ND	295.94	ND(25)	ND(25)	ND(25)	ND(25)	4700	630	280	ND(25)	140	
	03/25/2014	334.54	36.19	ND	ND	298.35	ND(10)	ND(10)	ND(10)	ND(10)	6900	1000	290	ND(10)	180	
PW-1(85)	06/22/2010	334.54	34.47	ND	ND	300.07	8	ND(0.7)	ND(0.8)	5	2000	NA	NA	NA	NA	
	09/30/2010	334.54	36.85	ND	ND	297.69	9	ND(0.7)	ND(0.8)	6	1700	NA	NA	NA	NA	
	12/16/2010	334.54	36.51	ND	ND	298.03	8	ND(0.7)	ND(0.8)	6	1900	NA	NA	NA	NA	
	05/24/2011	334.54	35.87	ND	ND	298.67	6 J	ND(1)	ND(2)	3 J	2100	NA	NA	NA	NA	
	09/02/2011	334.54	38.61	ND	ND	295.93	5 J	ND(0.7)	ND(0.8)	2 J	1600	NA	NA	NA	NA	Abandoned to 75' (Nov 2011)
PW-1(105)	10/16/2009	334.54	NM	NM	NM	NM	5.8	ND	ND	4.1	1180	NA	NA	NA	NA	
	06/22/2010	334.54	34.47	ND	ND	300.07	5	ND(1)	ND(2)	3	2300	NA	NA	NA	NA	
	09/30/2010	334.54	36.85	ND	ND	297.69	9	ND(0.7)	ND(0.8)	5	1800	NA	NA	NA	NA	
	12/16/2010	334.54	36.51	ND	ND	298.03	8	ND(1)	ND(2)	5	1700	NA	NA	NA	NA	
	05/24/2011	334.54	35.87	ND	ND	298.67	5 J	ND(1)	ND(2)	2 J	1900	NA	NA	NA	NA	
	09/02/2011	334.54	38.61	ND	ND	295.93	3 J	ND(0.7)	ND(0.8)	1 J	1400	NA	NA	NA	NA	Abandoned to 75' (Nov 2011)
RW-1	03/24/2014	328.31	30.91	ND	ND	297.40	NS	NS	NS	NS	NS	NS	NS	NS	NS	Screened from 21-91'

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through April 11, 2014

Notes:

µg/L - micrograms per liter (µg/L)
DIPE - Isopropyl ether
ETBE - Ethyl tert-butyl ether
GW - Groundwater
J - Indicates an estimated value
MTBE - Methyl Tertiary Butyl Ether
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
TAME - Tert-Amyl methyl ether
TBA - Tert-Butyl alcohol

TABLE 4

Groundwater Monitoring & Analytical Data – Chlorinated VOCs
Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia

January 18, 2003 through April 11, 2014

		Gauging Data					Analytical Data					
Sample ID	Date	Top of Casing Elevation	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	1,2-Dichloroe-thane (µg/L)	cis-1,2-Dichloroe-thylene (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl chloride (µg/L)	Comments
MW-1	7/24/2009	100.00	30.45	ND	ND	69.55	NS	NS	NS	NS	NS	Screened from 20-37'
	8/18/2009	328.99	NM	NM	NM	NM	NS	NS	NS	NS	NS	
	10/15/2009	328.99	31.88	ND	ND	297.11	ND(200)	ND(200)	ND(200)	ND(200)	ND(200)	
	6/22/2010	328.99	28.65	ND	ND	300.34	NS	NS	NS	NS	NS	
	9/30/2010	328.99	31.11	ND	ND	297.88	NS	NS	NS	NS	NS	
	12/16/2010	328.99	30.93	ND	ND	298.06	NS	NS	NS	NS	NS	
	2/17/2011	328.99	31.46	ND	ND	297.53	NS	NS	NS	NS	NS	
	5/24/2011	328.99	30.24	ND	ND	298.75	NS	NS	NS	NS	NS	
	9/2/2011	328.99	32.92	ND	ND	296.07	NS	NS	NS	NS	NS	
	12/29/2011	328.99	30.99	ND	ND	298.00	NS	NS	NS	NS	NS	
	6/1/2012	328.99	31.47	ND	ND	297.52	NS	NS	NS	NS	NS	
	2/25/2013	328.99	32.84	ND	ND	296.15	ND(250)	ND(250)	ND(250)	ND(250)	ND(250)	
	6/6/2013	328.99	32.14	ND	ND	296.85	NS	NS	NS	NS	NS	
	12/19/2013	328.99	33.06	ND	ND	295.93	NS	NS	NS	NS	NS	
	3/25/2014	328.99	31.04	ND	ND	297.95	ND(500)	ND(500)	ND(500)	ND(500)	ND(500)	
MW-2	7/24/2009	102.90	33.19	ND	ND	69.71	NS	NS	NS	NS	NS	Screened from 25-40'
	8/18/2009	332.05	NM	NM	NM	NM	NS	NS	NS	NS	NS	
	10/15/2009	332.05	34.41	ND	ND	297.64	ND(200)	ND(200)	ND(200)	ND(200)	ND(200)	
	7/1/2010	332.05	31.63	ND	ND	300.42	NS	NS	NS	NS	NS	
	9/30/2010	332.05	32.96	ND	ND	299.09	NS	NS	NS	NS	NS	
	12/16/2010	332.05	NM	NM	NM	NM	NS	NS	NS	NS	NS	Well inaccessible
	2/17/2011	332.05	34.15	ND	ND	297.90	NS	NS	NS	NS	NS	
	5/24/2011	332.05	32.92	ND	ND	299.13	NS	NS	NS	NS	NS	
	9/2/2011	332.05	35.53	ND	ND	296.52	NS	NS	NS	NS	NS	
	12/29/2011	332.05	33.64	ND	ND	298.41	NS	NS	NS	NS	NS	
	6/1/2012	332.05	34.16	ND	ND	297.89	NS	NS	NS	NS	NS	
	2/25/2013	332.05	35.47	ND	ND	296.58	ND(250)	ND(250)	ND(250)	ND(250)	ND(250)	
	6/6/2013	332.05	34.91	ND	ND	297.14	NS	NS	NS	NS	NS	
	12/19/2013	332.05	35.50	ND	ND	296.55	NS	NS	NS	NS	NS	
	3/25/2014	332.05	33.30	ND	ND	298.75	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	

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TABLE 4

Groundwater Monitoring & Analytical Data – Chlorinated VOCs
Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia

January 18, 2003 through April 11, 2014

		Gauging Data					Analytical Data					
Sample ID	Date	Top of Casing Elevation	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	1,2-Dichloroe-thane (µg/L)	cis-1,2-Dichloroe-thylene (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl chloride (µg/L)	Comments
MW-3	7/24/2009	104.99	33.67	ND	ND	71.32	NS	NS	NS	NS	NS	Screened from 25-35'
	8/18/2009	333.98	NM	NM	NM	NM	NS	NS	NS	NS	NS	
	10/15/2009	333.98	34.51	ND	ND	299.47	NS	NS	NS	NS	NS	Insufficent volume to sample
	7/1/2010	333.98	32.39	ND	ND	301.59	NS	NS	NS	NS	NS	
	9/30/2010	333.98	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	
	12/16/2010	333.98	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	
	2/17/2011	333.98	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	
	5/24/2011	333.98	33.63	ND	ND	300.35	NS	NS	NS	NS	NS	
	9/2/2011	333.98	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	
	12/29/2011	333.98	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	
	6/1/2012	333.98	34.56	ND	ND	299.42	NS	NS	NS	NS	NS	Insufficient water for sample
	2/25/2013	333.98	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	
	6/6/2013	333.98	NM	NM	NM	NM	NS	NS	NS	NS	NS	
	12/18/2013	333.98	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	
	3/24/2014	333.98	34.25	ND	ND	299.73	NS	NS	NS	NS	NS	
MW-5	7/24/2009	103.43	30.72	ND	ND	72.71	NS	NS	NS	NS	NS	Screened from 30-40'
	8/18/2009	332.35	NM	NM	NM	NM	NS	NS	NS	NS	NS	
	10/15/2009	332.35	32.51	ND	ND	299.84	ND(1.0)	ND(1.0)	1.9	ND(1.0)	ND(1.0)	
	6/22/2010	332.35	29.40	ND	ND	302.95	NS	NS	NS	NS	NS	
	9/30/2010	332.35	32.30	ND	ND	300.05	NS	NS	NS	NS	NS	
	12/16/2010	332.35	32.12	ND	ND	300.23	NS	NS	NS	NS	NS	
	2/17/2011	332.35	32.31	ND	ND	300.04	NS	NS	NS	NS	NS	
	5/24/2011	332.35	30.84	ND	ND	301.51	NS	NS	NS	NS	NS	
	9/2/2011	332.35	33.39	ND	ND	298.96	NS	NS	NS	NS	NS	
	12/29/2011	332.35	31.36	ND	ND	300.99	NS	NS	NS	NS	NS	
	6/1/2012	332.35	31.93	ND	ND	300.42	NS	NS	NS	NS	NS	
	2/25/2013	332.35	33.28	ND	ND	299.07	ND(5)	ND(5)	10	ND(5)	ND(5)	
	6/6/2013	332.35	32.55	ND	ND	299.80	NS	NS	NS	NS	NS	
	12/18/2013	332.35	33.92	ND	ND	298.43	NS	NS	NS	NS	NS	
	3/24/2014	332.35	31.32	ND	ND	301.03	NS	NS	NS	NS	NS	

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Groundwater Monitoring & Analytical Data – Chlorinated VOCs
Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia

January 18, 2003 through April 11, 2014

		Gauging Data					Analytical Data					
Sample ID	Date	Top of Casing Elevation	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	1,2-Dichloroe-thane (µg/L)	cis-1,2-Dichloroe-thylene (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl chloride (µg/L)	Comments
MW-6S	9/24/2009	NM	NM	NM	NM	NM	ND(1.0)	13.8	2.1	0.38	ND(1.0)	Screened from 20-35'
	10/15/2009	321.85	23.35	ND	ND	298.50	ND(1.0)	9.2	2.3	0.62	ND(1.0)	
	6/22/2010	321.85	20.22	ND	ND	301.63	NS	NS	NS	NS	NS	
	9/30/2010	321.85	23.00	ND	ND	298.85	NS	NS	NS	NS	NS	
	12/16/2010	321.85	22.82	ND	ND	299.03	NS	NS	NS	NS	NS	
	2/17/2011	321.85	23.02	ND	ND	298.83	NS	NS	NS	NS	NS	
	5/24/2011	321.85	21.66	ND	ND	300.19	NS	NS	NS	NS	NS	
	9/2/2011	321.85	24.04	ND	ND	297.81	NS	NS	NS	NS	NS	
	12/29/2011	321.85	22.15	ND	ND	299.70	NS	NS	NS	NS	NS	
	6/1/2012	321.85	22.72	ND	ND	299.13	NS	NS	NS	NS	NS	
	2/25/2013	321.85	24.03	ND	ND	297.82	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	
	6/6/2013	321.85	23.49	ND	ND	298.36	NS	NS	NS	NS	NS	
	12/17/2013	321.85	24.63	ND	ND	297.22	NS	NS	NS	NS	NS	
	3/24/2014	321.85	22.19	ND	ND	299.66	NS	NS	NS	NS	NS	
MW-6D(65)	6/22/2010	323.09	26.69	ND	ND	296.40	NS	NS	NS	NS	NS	Open from 70-120'
	9/30/2010	323.09	26.52	ND	ND	296.57	NS	NS	NS	NS	NS	
	12/16/2010	323.09	25.92	ND	ND	297.17	NS	NS	NS	NS	NS	
	2/17/2011	323.09	26.14	ND	ND	296.95	NS	NS	NS	NS	NS	
	5/24/2011	323.09	25.83	ND	ND	297.26	NS	NS	NS	NS	NS	
	9/2/2011	323.09	27.45	ND	ND	295.64	NS	NS	NS	NS	NS	
	12/22/2011	323.09	25.47	ND	ND	297.62	NS	NS	NS	NS	NS	
	6/1/2012	323.09	25.95	ND	ND	297.14	NS	NS	NS	NS	NS	
	2/25/2013	323.09	27.13	ND	ND	295.96	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	
	6/6/2013	323.09	26.66	ND	ND	296.43	NS	NS	NS	NS	NS	
	12/17/2013	323.09	27.85	ND	ND	295.24	NS	NS	NS	NS	NS	
	3/24/2014	323.09	25.24	ND	ND	297.85	NS	NS	NS	NS	NS	
MW-6D(75)	9/24/2009	NM	NM	NM	NM	NM	ND(1.0)	87.4	3.2	1.3	ND(1.0)	
	10/15/2009	323.09	26.69	ND	ND	296.40	ND(1.0)	80.5	5.7	1.6	ND(1.0)	

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Groundwater Monitoring & Analytical Data – Chlorinated VOCs
Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia

January 18, 2003 through April 11, 2014

		Gauging Data					Analytical Data					
Sample ID	Date	Top of Casing Elevation	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	1,2-Dichloroe-thane (µg/L)	cis-1,2-Dichloroe-thylene (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl chloride (µg/L)	Comments
MW-6D(85)	6/22/2010	323.09	26.69	ND	ND	296.40	NS	NS	NS	NS	NS	
	9/30/2010	323.09	26.51	ND	ND	296.58	NS	NS	NS	NS	NS	
	12/16/2010	323.09	25.92	ND	ND	297.17	NS	NS	NS	NS	NS	
	2/17/2011	323.09	26.14	ND	ND	296.95	NS	NS	NS	NS	NS	
	5/24/2011	323.09	25.83	ND	ND	297.26	NS	NS	NS	NS	NS	
	9/2/2011	323.09	27.45	ND	ND	295.64	NS	NS	NS	NS	NS	
	12/22/2011	323.09	25.47	ND	ND	297.62	NS	NS	NS	NS	NS	
	6/1/2012	323.09	25.95	ND	ND	297.14	NS	NS	NS	NS	NS	
	2/25/2013	323.09	27.13	ND	ND	295.96	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	
	6/6/2013	323.09	26.66	ND	ND	296.43	NS	NS	NS	NS	NS	
MW-6D(105)	6/22/2010	323.09	26.69	ND	ND	296.40	NS	NS	NS	NS	NS	
	9/30/2010	323.09	26.52	ND	ND	296.57	NS	NS	NS	NS	NS	
	12/16/2010	323.09	25.92	ND	ND	297.17	NS	NS	NS	NS	NS	
	2/17/2011	323.09	26.14	ND	ND	296.95	NS	NS	NS	NS	NS	
	5/24/2011	323.09	25.83	ND	ND	297.26	NS	NS	NS	NS	NS	
	9/2/2011	323.09	27.45	ND	ND	295.64	NS	NS	NS	NS	NS	
	12/22/2011	323.09	25.47	ND	ND	297.62	NS	NS	NS	NS	NS	
	6/1/2012	323.09	25.95	ND	ND	297.14	NS	NS	NS	NS	NS	
	2/25/2013	323.09	27.13	ND	ND	295.96	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	
	6/6/2013	323.09	26.66	ND	ND	296.43	NS	NS	NS	NS	NS	
MW-6D(110)	9/24/2009	NM	NM	NM	NM	NM	ND(1.0)	90.8	3.4	1.4	ND(1.0)	
	10/15/2009	323.09	26.69	ND	ND	296.40	ND(1.0)	84.2	5.4	1.7	ND(1.0)	

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Groundwater Monitoring & Analytical Data – Chlorinated VOCs
Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia

January 18, 2003 through April 11, 2014

		Gauging Data					Analytical Data					
Sample ID	Date	Top of Casing Elevation	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	1,2-Dichloroe-thane (µg/L)	cis-1,2-Dichloroe-thylene (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl chloride (µg/L)	Comments
MW-7	10/15/2009	327.96	31.21	ND	ND	296.75	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	Screened from 15-40'
	6/22/2010	327.96	28.00	ND	ND	299.96	NS	NS	NS	NS	NS	
	9/30/2010	327.96	30.24	ND	ND	297.72	NS	NS	NS	NS	NS	
	12/16/2010	327.96	30.15	ND	ND	297.81	NS	NS	NS	NS	NS	
	2/17/2011	327.96	30.75	ND	ND	297.21	NS	NS	NS	NS	NS	
	5/24/2011	327.96	29.56	ND	ND	298.40	NS	NS	NS	NS	NS	
	9/2/2011	327.96	32.21	ND	ND	295.75	NS	NS	NS	NS	NS	
	12/29/2011	327.96	30.24	ND	ND	297.72	NS	NS	NS	NS	NS	
	6/1/2012	327.96	30.74	ND	ND	297.22	NS	NS	NS	NS	NS	
	2/25/2013	327.96	32.23	ND	ND	295.73	ND(250)	ND(250)	ND(250)	ND(250)	ND(250)	
	6/6/2013	327.96	31.49	ND	ND	296.47	NS	NS	NS	NS	NS	
	12/18/2013	327.96	32.79	ND	ND	295.17	NS	NS	NS	NS	NS	
	3/28/2014	327.96	30.35	ND	ND	297.61	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	

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Groundwater Monitoring & Analytical Data – Chlorinated VOCs
Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia

January 18, 2003 through April 11, 2014

		Gauging Data					Analytical Data					
Sample ID	Date	Top of Casing Elevation	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	1,2-Dichloroe-thane (µg/L)	cis-1,2-Dichloroe-thylene (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl chloride (µg/L)	Comments
MW-8	10/15/2009	330.54	34.01	ND	ND	296.53	ND(500)	ND(500)	ND(500)	ND(500)	ND(500)	Screened from 25-45'
	6/22/2010	330.54	30.91	ND	ND	299.63	NS	NS	NS	NS	NS	
	9/30/2010	330.54	32.97	ND	ND	297.57	NS	NS	NS	NS	NS	
	12/16/2010	330.54	32.85	ND	ND	297.69	NS	NS	NS	NS	NS	
	2/17/2011	330.54	33.62	ND	ND	296.92	NS	NS	NS	NS	NS	
	5/24/2011	330.54	32.44	ND	ND	298.10	NS	NS	NS	NS	NS	
	9/2/2011	330.54	35.18	ND	ND	295.36	NS	NS	NS	NS	NS	
	12/29/2011	330.54	33.23	ND	ND	297.31	NS	NS	NS	NS	NS	
	6/1/2012	330.54	33.73	ND	ND	296.81	NS	NS	NS	NS	NS	
	2/25/2013	330.54	35.27	ND	ND	295.27	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	
	6/6/2013	330.54	34.49	ND	ND	296.05	NS	NS	NS	NS	NS	
	9/19/2013	330.54	36.01	ND	ND	294.53	NS	NS	NS	NS	NS	Abandoned (9/19/2013)
SVE-2	3/25/2014	329.69	31.32	ND	ND	298.37	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Screened from 25-45'
MW-9	10/15/2009	333.46	35.60	ND	ND	297.86	ND(1.0)	297	7.0	5.8	ND(1.0)	Screened from 25-45'
	6/22/2010	333.46	32.32	ND	ND	301.14	NS	NS	NS	NS	NS	
	9/30/2010	333.46	34.85	ND	ND	298.61	NS	NS	NS	NS	NS	
	12/16/2010	333.46	34.73	ND	ND	298.73	NS	NS	NS	NS	NS	
	2/17/2011	333.46	35.28	ND	ND	298.18	NS	NS	NS	NS	NS	
	5/24/2011	333.46	34.04	ND	ND	299.42	NS	NS	NS	NS	NS	
	9/2/2011	333.46	36.86	ND	ND	296.60	NS	NS	NS	NS	NS	
	12/29/2011	333.46	34.68	ND	ND	298.78	NS	NS	NS	NS	NS	
	6/1/2012	333.46	35.17	ND	ND	298.29	NS	NS	NS	NS	NS	
	2/25/2013	333.46	36.65	ND	ND	296.81	ND(5)	140	13	ND(5)	ND(5)	
	6/6/2013	333.46	35.98	ND	ND	297.48	NS	NS	NS	NS	NS	
	12/18/2013	333.46	37.33	ND	ND	296.13	NS	NS	NS	NS	NS	
	3/24/2014	333.46	34.67	ND	ND	298.79	ND(5)	49	7	ND(5)	ND(5)	

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Groundwater Monitoring & Analytical Data – Chlorinated VOCs
Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia

January 18, 2003 through April 11, 2014

		Gauging Data					Analytical Data					
Sample ID	Date	Top of Casing Elevation	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	1,2-Dichloroe-thane (µg/L)	cis-1,2-Dichloroe-thylene (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl chloride (µg/L)	Comments
MW-10	10/15/2009	324.17	28.77	ND	ND	295.40	ND(1.0)	22.0	1.6	0.73 J	ND(1.0)	Screened from 10-40'
	6/22/2010	324.17	25.80	ND	ND	298.37	NS	NS	NS	NS	NS	
	12/16/2010	324.17	27.72	ND	ND	296.45	NS	NS	NS	NS	NS	
	2/17/2011	324.17	28.05	ND	ND	296.12	NS	NS	NS	NS	NS	
	5/24/2011	324.17	27.04	ND	ND	297.13	NS	NS	NS	NS	NS	
	9/2/2011	324.17	29.60	ND	ND	294.57	NS	NS	NS	NS	NS	
	12/29/2011	324.17	NM	NM	NM	NM	NS	NS	NS	NS	NS	Well inaccessible
	6/1/2012	324.17	28.17	ND	ND	296.00	NS	NS	NS	NS	NS	
	2/25/2013	324.17	29.45	ND	ND	294.72	ND(5)	32	ND(5)	ND(5)	ND(5)	
	6/6/2013	324.17	28.87	ND	ND	295.30	NS	NS	NS	NS	NS	
	12/18/2013	324.17	30.04	ND	ND	294.13	NS	NS	NS	NS	NS	
	3/24/2014	324.17	27.24	ND	ND	296.93	NS	NS	NS	NS	NS	
MW-11	10/16/2009	NM	NM	NM	NM	NM	ND(10)	5.9	ND(10)	ND(10)	ND(10)	Screened from 10-40'
	6/22/2010	329.64	29.00	ND	ND	300.64	NS	NS	NS	NS	NS	
	9/30/2010	329.64	31.42	ND	ND	298.22	NS	NS	NS	NS	NS	
	12/16/2010	329.64	31.22	ND	ND	298.42	NS	NS	NS	NS	NS	
	2/17/2011	329.64	31.81	ND	ND	297.83	NS	NS	NS	NS	NS	
	5/24/2011	329.64	30.56	ND	ND	299.08	NS	NS	NS	NS	NS	
	9/2/2011	329.64	33.22	ND	ND	296.42	NS	NS	NS	NS	NS	
	12/29/2011	329.64	31.29	ND	ND	298.35	NS	NS	NS	NS	NS	
	6/1/2012	329.64	31.77	ND	ND	297.87	NS	NS	NS	NS	NS	
	2/25/2013	329.64	33.03	ND	ND	296.61	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	
	6/6/2013	329.64	32.46	ND	ND	297.18	NS	NS	NS	NS	NS	
	12/18/2013	329.64	33.91	ND	ND	295.73	NS	NS	NS	NS	NS	
	3/24/2014	329.64	31.19	ND	ND	298.45	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	

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Groundwater Monitoring & Analytical Data – Chlorinated VOCs
Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia

January 18, 2003 through April 11, 2014

		Gauging Data					Analytical Data					
Sample ID	Date	Top of Casing Elevation	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	1,2-Dichloroe-thane (µg/L)	cis-1,2-Dichloroe-thylene (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl chloride (µg/L)	Comments
MW-12D(110)	5/24/2011	326.43	28.12	ND	ND	298.31	NS	NS	NS	NS	NS	Open from 100-160'
	9/2/2011	326.43	32.37	ND	ND	294.06	NS	NS	NS	NS	NS	
	12/22/2011	326.43	29.63	ND	ND	296.80	NS	NS	NS	NS	NS	
	6/1/2012	326.43	29.75	ND	ND	296.68	NS	NS	NS	NS	NS	
	2/25/2013	326.43	30.86	ND	ND	295.57	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	
	6/6/2013	326.43	30.59	ND	ND	295.84	NS	NS	NS	NS	NS	
	12/17/2013	326.43	31.51	ND	ND	294.92	NS	NS	NS	NS	NS	
	3/24/2014	326.43	29.33	ND	ND	297.10	NS	NS	NS	NS	NS	
MW-12D(127)	12/22/2011	326.43	29.63	ND	ND	296.80	NS	NS	NS	NS	NS	
MW-12D(141)	12/22/2011	326.43	29.63	ND	ND	296.80	NS	NS	NS	NS	NS	
MW-12D(153)	5/24/2011	326.43	28.12	ND	ND	298.31	NS	NS	NS	NS	NS	
	9/2/2011	326.43	32.37	ND	ND	294.06	NS	NS	NS	NS	NS	
	6/1/2012	326.43	29.75	ND	ND	296.68	NS	NS	NS	NS	NS	
	2/25/2013	326.43	30.86	ND	ND	295.57	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	
	6/6/2013	326.43	30.59	ND	ND	295.84	NS	NS	NS	NS	NS	
MW-13	9/2/2011	332.00	34.37	ND	ND	297.63	NS	NS	NS	NS	NS	Screened from 25-45'
	12/29/2011	332.00	NM	NM	NM	NM	NS	NS	NS	NS	NS	Well inaccessible
	6/1/2012	332.00	32.88	ND	ND	299.12	NS	NS	NS	NS	NS	
	2/25/2013	332.00	33.80	ND	ND	298.20	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)	
	6/6/2013	332.00	33.33	ND	ND	298.67	NS	NS	NS	NS	NS	
	12/19/2013	332.00	34.43	ND	ND	297.57	NS	NS	NS	NS	NS	
	3/24/2014	332.00	32.29	ND	ND	299.71	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	
MW-14	9/2/2011	331.81	35.02	ND	ND	296.79	NS	NS	NS	NS	NS	Screened from 25-45'
	12/29/2011	331.81	33.36	ND	ND	298.45	NS	NS	NS	NS	NS	
	6/1/2012	331.81	33.90	ND	ND	297.91	NS	NS	NS	NS	NS	
	2/25/2013	331.81	35.07	ND	ND	296.74	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	
	6/6/2013	331.81	34.35	ND	ND	297.46	NS	NS	NS	NS	NS	
	12/19/2013	331.81	35.15	ND	ND	296.66	NS	NS	NS	NS	NS	
	3/24/2014	331.82	32.91	ND	ND	298.91	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	

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January 18, 2003 through April 11, 2014

		Gauging Data					Analytical Data					
Sample ID	Date	Top of Casing Elevation	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	1,2-Dichloroe-thane (µg/L)	cis-1,2-Dichloroe-thylene (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl chloride (µg/L)	Comments
MW-15	9/2/2011	328.95	33.06	ND	ND	295.89	NS	NS	NS	NS	NS	Screened from 25-45'
	12/29/2011	328.95	31.10	ND	ND	297.85	NS	NS	NS	NS	NS	
	6/1/2012	328.95	31.64	ND	ND	297.31	NS	NS	NS	NS	NS	
	2/25/2013	328.95	33.10	ND	ND	295.85	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	
	6/6/2013	328.95	32.32	ND	ND	296.63	NS	NS	NS	NS	NS	
	12/18/2013	328.95	33.86	ND	ND	295.09	NS	NS	NS	NS	NS	
	3/25/2014	328.95	30.90	ND	ND	298.05	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	
MW-16D(89)	12/22/2011	332.90	34.88	ND	ND	298.02	NS	NS	NS	NS	NS	
MW-16D(95)	6/1/2012	332.90	35.33	ND	ND	297.57	NS	NS	NS	NS	NS	Abandoned to 110' (April 2011)
	2/25/2013	332.90	36.83	ND	ND	296.07	ND(100)	250	ND(100)	ND(100)	ND(100)	Open from 85-110'
	6/6/2013	332.90	36.15	ND	ND	296.75	NS	NS	NS	NS	NS	
	12/19/2013	332.90	37.13	ND	ND	295.77	NS	NS	NS	NS	NS	
	3/25/2014	332.90	34.64	ND	ND	298.26	ND(25)	130	ND(25)	ND(25)	ND(25)	
MW-16D(110)	12/22/2011	332.90	34.88	ND	ND	298.02	NS	NS	NS	NS	NS	Abandoned to 110' (April 2011)
MW-16D(125)	12/22/2011	332.90	34.88	ND	ND	298.02	NS	NS	NS	NS	NS	Abandoned to 110' (April 2011)
MW-17D	12/19/2013	328.99	34.15	ND	ND	294.84	NS	NS	NS	NS	NS	Open from 68-150'
	3/24/2014	328.99	31.57	ND	ND	297.42	NS	NS	NS	NS	NS	CMT installed 4/9/14
MW-18D	6/6/2013	334.88	40.69	ND	ND	294.19	NS	NS	NS	NS	NS	
	12/18/2013	334.88	41.60	ND	ND	293.28	NS	NS	NS	NS	NS	
	3/24/2014	334.88	38.94	ND	ND	295.94	NS	NS	NS	NS	NS	
MW-18D(1V)	5/10/2013	334.88	40.57	ND	ND	294.31	ND(5)	13	ND(5)	ND(5)	ND(5)	
MW-18D(3V)	5/10/2013	334.88	40.57	ND	ND	294.31	ND(5)	14	ND(5)	ND(5)	ND(5)	
MW-19D	3/28/2014	341.91	43.16	ND	ND	298.75	ND(1)	13	2	2	ND(1)	
MW-20D(75)	4/11/2014	329.80	NM	NM	NM	NM	NS	NS	NS	NS	NS	Hydrasleeve:Open from 70-142'
MW-20D(95)	4/11/2014	329.80	NM	NM	NM	NM	NS	NS	NS	NS	NS	Hydrasleeve
MW-20D(110)	4/11/2014	329.80	NM	NM	NM	NM	NS	NS	NS	NS	NS	Hydrasleeve
MW-20D(138)	4/11/2014	329.80	NM	NM	NM	NM	NS	NS	NS	NS	NS	Hydrasleeve
MW-21S	4/11/2014	329.69	33.65	ND	ND	296.04	NS	NS	NS	NS	NS	Screened from 26-46'
MW-21I	4/11/2014	329.71	33.71	ND	ND	296.00	NS	NS	NS	NS	NS	Screened from 56-66'

Kleinfelder
1340 Charwood Road, Suite I, Hanover, MD

TABLE 4

Groundwater Monitoring & Analytical Data – Chlorinated VOCs
Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia

January 18, 2003 through April 11, 2014

		Gauging Data					Analytical Data					
Sample ID	Date	Top of Casing Elevation	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	1,2-Dichloroe-thane (µg/L)	cis-1,2-Dichloroe-thylene (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl chloride (µg/L)	Comments
MW-22	4/11/2014	320.97	28.55	ND	ND	292.42	NS	NS	NS	NS	NS	Screened from 20-40'
MW-24	4/11/2014	324.49	27.66	ND	ND	296.83	ND(1)	58	3	1	ND(1)	Screened from 50-60'
PW-1	8/17/2009	NM	NM	NM	NM	NM	0.49 J	138	4.9	3.4	ND(0.50)	Abandoned to 75' (Nov 2011)
PW-1(65)	10/16/2009	334.54	NM	NM	NM	NM	NS	NS	NS	NS	NS	Open from 55-75'
	6/22/2010	334.54	34.47	ND	ND	300.07	NS	NS	NS	NS	NS	
	9/30/2010	334.54	36.84	ND	ND	297.70	NS	NS	NS	NS	NS	
	12/16/2010	334.54	36.51	ND	ND	298.03	NS	NS	NS	NS	NS	
	5/24/2011	334.54	35.87	ND	ND	298.67	NS	NS	NS	NS	NS	
	9/2/2011	334.54	38.61	ND	ND	295.93	NS	NS	NS	NS	NS	Abandoned to 75' (Nov 2011)
	12/22/2011	334.54	36.37	ND	ND	298.17	NS	NS	NS	NS	NS	
	6/1/2012	334.54	36.82	ND	ND	297.72	NS	NS	NS	NS	NS	
	2/25/2013	334.54	38.28	ND	ND	296.26	ND(5)	110	8	ND(5)	ND(5)	
	6/6/2013	334.54	37.41	ND	ND	297.13	NS	NS	NS	NS	NS	
	12/19/2013	334.54	38.60	ND	ND	295.94	NS	NS	NS	NS	NS	
	3/25/2014	334.54	36.19	ND	ND	298.35	ND(10)	63	ND(10)	ND(10)	ND(10)	
PW-1(85)	6/22/2010	334.54	34.47	ND	ND	300.07	NS	NS	NS	NS	NS	
	9/30/2010	334.54	36.85	ND	ND	297.69	NS	NS	NS	NS	NS	
	12/16/2010	334.54	36.51	ND	ND	298.03	NS	NS	NS	NS	NS	
	5/24/2011	334.54	35.87	ND	ND	298.67	NS	NS	NS	NS	NS	
	9/2/2011	334.54	38.61	ND	ND	295.93	NS	NS	NS	NS	NS	Abandoned to 75' (Nov 2011)
PW-1(105)	10/16/2009	334.54	NM	NM	NM	NM	NS	NS	NS	NS	NS	
	6/22/2010	334.54	34.47	ND	ND	300.07	NS	NS	NS	NS	NS	
	9/30/2010	334.54	36.85	ND	ND	297.69	NS	NS	NS	NS	NS	
	12/16/2010	334.54	36.51	ND	ND	298.03	NS	NS	NS	NS	NS	
	5/24/2011	334.54	35.87	ND	ND	298.67	NS	NS	NS	NS	NS	
	9/2/2011	334.54	38.61	ND	ND	295.93	NS	NS	NS	NS	NS	Abandoned to 75' (Nov 2011)
RW-1	3/24/2014	328.31	30.91	ND	ND	297.40	NS	NS	NS	NS	NS	Screened from 21-91'

TABLE 4

Groundwater Monitoring & Analytical Data – Chlorinated VOCs
Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia

January 18, 2003 through April 11, 2014

		Gauging Data					Analytical Data					
Sample ID	Date	Top of Casing Elevation	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	1,2-Dichloroe-thane (µg/L)	cis-1,2-Dichloroe-thylene (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl chloride (µg/L)	Comments
W-1	1/18/2003	328.53	33.83	ND	ND	294.70	NS	NS	NS	NS	NS	Screened from 10-40'
	8/5/2008	328.53	34.81	ND	ND	293.72	NS	NS	NS	NS	NS	
	6/7/2013	328.53	34.52	ND	ND	294.01	NS	NS	NS	NS	NS	
	12/19/2013	328.53	36.11	ND	ND	292.42	NS	NS	NS	NS	NS	
	3/25/2014	328.53	33.50	ND	ND	295.03	NS	NS	NS	NS	NS	
W-2	1/18/2003	329.47	34.56	ND	ND	294.91	NS	NS	NS	NS	NS	Screened from 10-40'
	8/5/2008	329.47	35.53	ND	ND	293.94	NS	NS	NS	NS	NS	
	6/7/2013	329.47	35.30	ND	ND	294.17	NS	NS	NS	NS	NS	
	12/19/2013	329.47	36.82	ND	ND	292.65	NS	NS	NS	NS	NS	
	3/25/2014	329.47	34.26	ND	ND	295.21	NS	NS	NS	NS	NS	
W-3	1/18/2003	330.14	35.88	ND	ND	294.26	NS	NS	NS	NS	NS	Screened from 10-45'
	8/5/2008	330.14	35.92	ND	ND	294.22	NS	NS	NS	NS	NS	
	6/7/2013	330.14	35.84	ND	ND	294.30	NS	NS	NS	NS	NS	
	12/18/2013	330.14	37.22	ND	ND	292.92	NS	NS	NS	NS	NS	
	3/24/2014	330.14	34.57	ND	ND	295.57	NS	NS	NS	NS	NS	
W-4	1/18/2003	327.67	34.12	ND	ND	293.55	NS	NS	NS	NS	NS	Screened from 10-40'
	8/5/2008	327.67	34.25	ND	ND	293.42	NS	NS	NS	NS	NS	
	6/7/2013	327.67	34.08	ND	ND	293.59	NS	NS	NS	NS	NS	
	12/18/2013	327.67	35.91	ND	ND	291.76	NS	NS	NS	NS	NS	
	3/24/2014	327.67	33.24	ND	ND	294.43	NS	NS	NS	NS	NS	
W-5	8/5/2008	327.81	35.93	ND	ND	291.88	NS	NS	NS	NS	NS	Interval not available
	6/7/2013	327.81	35.30	ND	ND	292.51	NS	NS	NS	NS	NS	
	12/18/2013	327.81	37.46	ND	ND	290.35	NS	NS	NS	NS	NS	
	3/24/2014	327.81	34.75	ND	ND	293.06	NS	NS	NS	NS	NS	
W-6	8/5/2008	325.21	31.63	ND	ND	293.58	NS	NS	NS	NS	NS	Interval not available
	6/7/2013	325.21	31.12	ND	ND	294.09	NS	NS	NS	NS	NS	
	12/18/2013	325.21	32.12	ND	ND	293.09	NS	NS	NS	NS	NS	
	3/25/2014	325.21	29.37	ND	ND	295.84	NS	NS	NS	NS	NS	

TABLE 4

Groundwater Monitoring & Analytical Data – Chlorinated VOCs
Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia

January 18, 2003 through April 11, 2014

		Gauging Data					Analytical Data					
Sample ID	Date	Top of Casing Elevation	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	1,2-Dichloroe-thane (µg/L)	cis-1,2-Dichloroe-thylene (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl chloride (µg/L)	Comments
W-7	8/5/2008	329.77	37.35	ND	ND	292.42	NS	NS	NS	NS	NS	Interval not available
	6/6/2013	329.77	37.04	ND	ND	292.73	NS	NS	NS	NS	NS	
	12/18/2013	329.77	38.24	ND	ND	291.53	NS	NS	NS	NS	NS	
	3/24/2014	329.77	35.60	ND	ND	294.17	NS	NS	NS	NS	NS	
GFSCMW-2	3/24/2014	316.79	30.18	ND	ND	286.61	NS	NS	NS	NS	NS	Interval not available
GFSCMW-3	3/24/2014	319.78	29.14	ND	ND	290.64	NS	NS	NS	NS	NS	Interval not available
GFGPMW-4	3/24/2014	310.10	18.87	ND	ND	291.23	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	Screened from 5.5-20.5'
GFGPMW-5	3/24/2014	310.72	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	Screened from 5-25'

Notes:
µg/L - micrograms per liter (µg/L)
GW - Groundwater
J - Indicates an estimated value
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
PCE - Tetrachloroethylene
TCE - Trichloroethylene

Kleinfelder
1340 Charwood Road, Suite I, Hanover, MD

TABLE 5

Soil Vapor Analytical Data
Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia

October 15, 2009 through March 28, 2014

Vapor Monitoring Point ID	Vapor Monitoring Point Depth	Date	Benzene µg/m^3	Toulene µg/m^3	Ethylbenzene µg/m^3	Total Xylenes µg/m^3	MTBE µg/m^3
VP-1	8 Feet	10/15/2009	2.7	9.8	4.3	15	115
		3/28/2014	ND(2.6)	ND(3.0)	ND(3.5)	ND(3.5)	ND(2.9)
VP-2S	8 Feet	10/15/2009	12	4.1	4.1	16	12,300
		3/28/2014	ND(2.6)	ND(3.0)	ND(3.5)	ND(3.5)	ND(2.9)
VP-2D	4 Feet	10/15/2009	984	ND(680)	ND(780)	ND(780)	113,000
		3/28/2014	ND(2.6)	ND(3.0)	ND(3.5)	ND(3.5)	ND(2.9)
VP-3	8 Feet	10/15/2009	5.1	9.4	ND(3.5)	4.1	9.7
		3/28/2014	ND(2.6)	ND(3.0)	ND(3.5)	ND(3.5)	ND(2.9)

NOTES:

µg/m^3 - micrograms per cubic meter

MTBE - Methyl Tertiary Butyl Ether

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

APPENDIX A
Monitoring Well Boring and Construction Logs

1340 Charwood Road
Suite I
Hanover, MD 21076

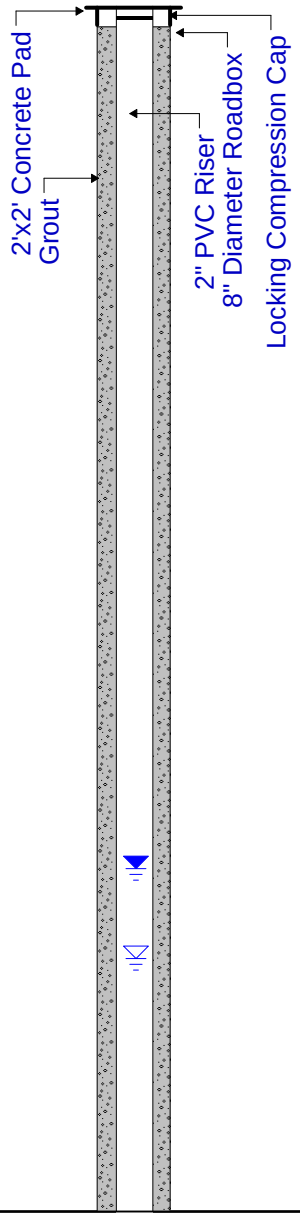
DRILLING LOG
Well No. MW-19D

Project Name: Inactive Fairfax Facility 26140
Site Location: 9901 Georgetown Pike, Great Falls, VA
Kleinfelder Project No: 20143589.001A
Client: Fairfax Petroleum Realty, LLC
Drilling Company: Allied Well Drilling
Driller: Tim Moyer
Drill Rig Type: Drilltech D25KW
Drilling Method: Air Rotary
Sampling Method: Cuttings

Start Date: 03/08/2014
End Date: 03/08/2014
Total Hole Depth: 100'
Hole Diameter: 6"
Depth to Bedrock: ~67'
Top-Of-Casing Elevation: 341.91'
Water Level (Initial): ~40'
Water Level (Static): 44.17'
Logged By (Geol.): P. Wertz

Permit No.: NA
License No.: NA
Checked By: MCS
Notes:

SUBSURFACE PROFILE			SAMPLE				Well Completion Details	
Depth (feet)	Graphic Log	USCS Code Soil/Geologic Description	Sample ID	Blows/6"	Penetration / Recovery	VOC (ppm) 0 2000		Depth (feet)
0		Ground Surface						0
1		Asphalt				0.0		1
2		***CL*** Red, moist, CLAY with silt, medium plasticity, firm, schist clasts present						2
3								3
4								4
5								5
6								6
7								7
8								8
9						0.0		9
10		Yellowish olive, moist, SCHIST saprolite						10
11								11
12								12
13								13
14								14
15								15
16								16
17								17
18								18
19						0.0		19
20		Reddish yellow, moist, SCHIST saprolite						20
21								21
22								22
23								23
24								24
25								25
26								26
27								27
28								28
29						0.0		29
30		Yellowish brown, moist, SCHIST saprolite						30
31								31
32								32
33								33
34								34
35								35
36								36
37								37
38								38
39								39
40								40
41								41
42								42
43								43
44								44
45								45
46								46
47								47
48								48
49						1.5		49
50								50
51								51
52								52
53								53
54								54
55								55



VOC - Volatile Organic Compound
NA - Not Applicable
NS - Not Sampled
NR - Not Recorded
NM - Not Measured
NE - Not Encountered
bgs - below ground surface

USCS - Unified Soil Classification System
WOR - weight of rod
WOH - weight of hammer
ppm - parts per million

1340 Charwood Road
Suite I
Hanover, MD 21076

DRILLING LOG
Well No. MW-19D

Project Name: Inactive Fairfax Facility 26140
Site Location: 9901 Georgetown Pike, Great Falls, VA
Kleinfelder Project No: 20143589.001A
Client: Fairfax Petroleum Realty, LLC
Drilling Company: Allied Well Drilling
Driller: Tim Moyer
Drill Rig Type: Drilltech D25KW
Drilling Method: Air Rotary
Sampling Method: Cuttings

Start Date: 03/08/2014
End Date: 03/08/2014
Total Hole Depth: 100'
Hole Diameter: 6"
Depth to Bedrock: ~67'
Top-Of-Casing Elevation: 341.91'
Water Level (Initial): ~40'
Water Level (Static): 44.17'
Logged By (Geol.): P. Wertz

Permit No.: NA
License No.: NA
Checked By: MCS
Notes:

SUBSURFACE PROFILE | **SAMPLE**

Depth (feet)	Graphic Log	USCS Code Soil/Geologic Description	Sample ID	Blows/6"	Penetration / Recovery	VOC (ppm) 0 – 2000	Well Completion Details	Depth (feet)
60		Yellow, moist, SCHIST saprolite				0.8	Grout	
66						0.9	Bentonite; 2" PVC Riser	
67		Competent BEDROCK, yellow schist						
77		Water producing fracture @ 78' bgs						
78		Greenish gray, GNEISS						
85		End of Borehole					#2 Sand Pack; 2" PVC 0.020" Slot Screen	

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USCS - Unified Soil Classification System
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1340 Charwood Road
Suite I
Hanover, MD 21076

DRILLING LOG
Well No. MW-20D

Project Name: Inactive Fairfax Facility 26140
Site Location: 9901 Georgetown Pike, Great Falls, VA
Kleinfelder Project No: 20143589.001A
Client: Fairfax Petroleum Realty, LLC.
Drilling Company: Allied Well Drilling
Driller: Tim Moyer
Drill Rig Type: Drilltech D25KW
Drilling Method: Air Rotary
Sampling Method: Cuttings

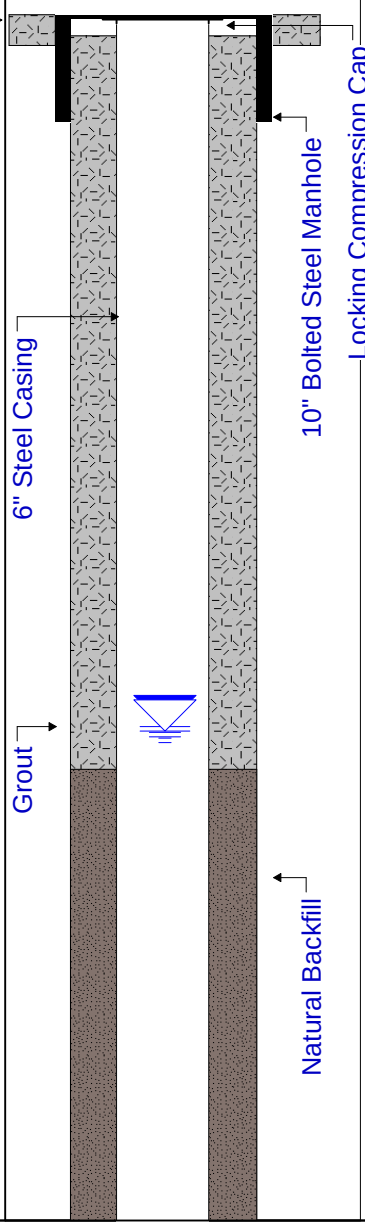
Start Date: 04/01/2014
End Date: 04/07/2014
Total Hole Depth: 142'
Hole Diameter: 10"/6"
Depth to Bedrock: ~63'
Top-Of-Casing Elevation: 329.80'
Water Level (Initial): ~30'
Water Level (Static): 34.23'
Logged By (Geol.): PW

Permit No.: NA
License No.: NA
Checked By: MCS
Notes: Cleared to 8' bgs

SUBSURFACE PROFILE | **SAMPLE**

Depth (feet)	USCS Code / Soil/Geologic Description	Sample ID	Blows/6"	Penetration / Recovery	VOC (ppm) 0–2000
0	Ground Surface				
0–1	Asphalt				0.0
1–4	Red brown, moist, clayey SILT, loose, homogeous, micaceous, fill				0.0
4–14	Red orange, moist, fine SAND with silt				0.0; 0.1; 0.0
14–30	Olive yellow, SCHIST, sapprolite				0.0; 0.0
30–50	Yellowish brown, SCHIST, sapprolite; Fracture @ 35' bgs	MW-17D (40-42)			0.1; 1.8
50–55	Olive, SCHIST, sapprolite				

Well Completion Details



VOC - Volatile Organic Compound
NA - Not Applicable
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1340 Charwood Road
Suite I
Hanover, MD 21076

DRILLING LOG
Well No. MW-20D

Project Name: Inactive Fairfax Facility 26140
Site Location: 9901 Georgetown Pike, Great Falls, VA
Kleinfelder Project No: 20143589.001A
Client: Fairfax Petroleum Realty, LLC.
Drilling Company: Allied Well Drilling
Driller: Tim Moyer
Drill Rig Type: Drilltech D25KW
Drilling Method: Air Rotary
Sampling Method: Cuttings

Start Date: 04/01/2014
End Date: 04/07/2014
Total Hole Depth: 142'
Hole Diameter: 10"/6"
Depth to Bedrock: ~63'
Top-Of-Casing Elevation: 329.80'
Water Level (Initial): ~30'
Water Level (Static): 34.23'
Logged By (Geol.): PW

Permit No.: NA
License No.: NA
Checked By: MCS
Notes: Cleared to 8' bgs

SUBSURFACE PROFILE			SAMPLE				Well Completion Details	
Depth (feet)	Graphic Log	USCS Code Soil/Geologic Description	Sample ID	Blows/6"	Penetration / Recovery	VOC (ppm) 0 2000		Depth (feet)
60		Light brownish gray, SCHIST, sapprolite				0.4	6" Steel Casing	
63		Gray, SCHIST					Natural Backfill	
80		Yellowish brown, SCHIST					6" Open Borehole	
							Bedrock	

VOC - Volatile Organic Compound
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1340 Charwood Road
Suite I
Hanover, MD 21076

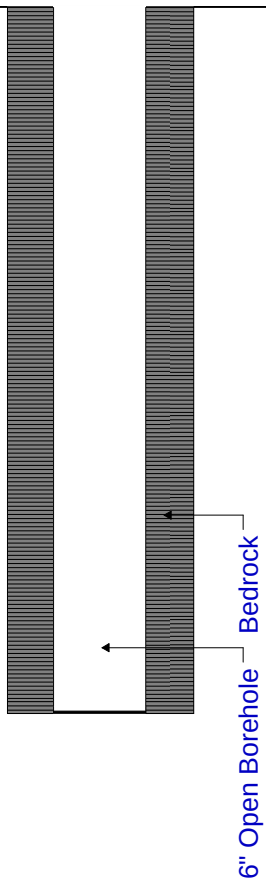
DRILLING LOG
Well No. MW-20D

Project Name: Inactive Fairfax Facility 26140
Site Location: 9901 Georgetown Pike, Great Falls, VA
Kleinfelder Project No: 20143589.001A
Client: Fairfax Petroleum Realty, LLC.
Drilling Company: Allied Well Drilling
Driller: Tim Moyer
Drill Rig Type: Drilltech D25KW
Drilling Method: Air Rotary
Sampling Method: Cuttings

Start Date: 04/01/2014
End Date: 04/07/2014
Total Hole Depth: 142'
Hole Diameter: 10"/6"
Depth to Bedrock: ~63'
Top-Of-Casing Elevation: 329.80'
Water Level (Initial): ~30'
Water Level (Static): 34.23'
Logged By (Geol.): PW

Permit No.: NA
License No.: NA
Checked By: MCS
Notes: Cleared to 8' bgs

SUBSURFACE PROFILE			SAMPLE				Well Completion Details	
Depth (feet)	Graphic Log	USCS Code Soil/Geologic Description	Sample ID	Blows/6"	Penetration / Recovery	VOC (ppm) 0 2000		Depth (feet)
111		Dark gray, SCHIST						111
112								112
113								113
114								114
115								115
116								116
117								117
118								118
119								119
120								120
121								121
122								122
123								123
124								124
125								125
126								126
127								127
128								128
129								129
130								130
131								131
132								132
133								133
134								134
135								135
136								136
137								137
138		Water bearing zone @ 138' bgs						138
139								139
140								140
141								141
142		End of Borehole						142
143								143
144								144
145								145
146								146
147								147
148								148
149								149
150								150
151								151
152								152
153								153
154								154
155								155
156								156
157								157
158								158
159								159
160								160
161								161
162								162
163								163
164								164
165								165



VOC - Volatile Organic Compound
NA - Not Applicable
NS - Not Sampled
NR - Not Recorded
NM - Not Measured
NE - Not Encountered
bgs - below ground surface

USCS - Unified Soil Classification System
WOR - weight of rod
WOH - weight of hammer
ppm - parts per million

1340 Charwood Road
Suite I
Hanover, MD 21076

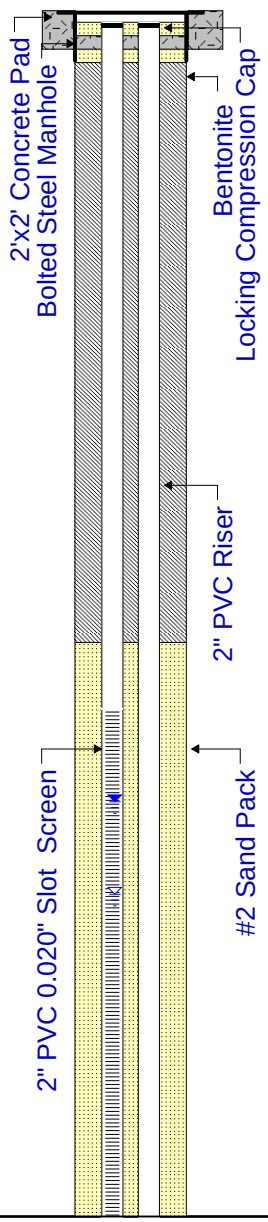
DRILLING LOG
Well No. MW-21S/MW-21I

Project Name: Inactive Fairfax Facility 26140
Site Location: 9901 Georgetown Pike, Great Falls, VA
Kleinfelder Project No: 20143589.001A
Client: Fairfax Petroleum Realty, LLC
Drilling Company: Allied Well Drilling
Driller: Tim Moyer
Drill Rig Type: Drilltech D25KW
Drilling Method: Air Rotary
Sampling Method: Cuttings

Start Date: 04/01/2014
End Date: 03/31/2014
Total Hole Depth: 66'
Hole Diameter: 10"
Depth to Bedrock: 66'
Top-Of-Casing Elevation: MW-21S 329.69'; MW-21I 329.71'
Water Level (Initial): ~30'
Water Level (Static): 33.51'
Logged By (Geol.): PW

Permit No.: NA
License No.: NA
Checked By: MCS
Notes: Cleared to 8' bgs

SUBSURFACE PROFILE			SAMPLE				Well Completion Details
Depth (feet)	Graphic Log	USCS Code Soil/Geologic Description	Sample ID	Blows/6"	Penetration / Recovery	VOC (ppm) 0 – 2000	
0		Ground Surface					
0–1		Asphalt					
1–4		Red brown, moist, clayey SILT, loose, homogenous micaceous, fill				0.0; 0.1	
4–6		Red orange, moist, fine SAND with silt, loose, homogenous				0.0	
6–8		Red orange, moist, fine SAND with quartz fragments, loose, homogenous				0.0	
8–10		Red orange, moist, fine SAND, loose, homogenous				0.0	
10–14		Red, SILT					
14–28		Olive yellow, clayey SILT, (sapprolite)				0.2	
28–45		Yellowish brown, SCHIST, sapprolite				0.0; 0.0	



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KLEINFELDER
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1340 Charwood Road
Suite I
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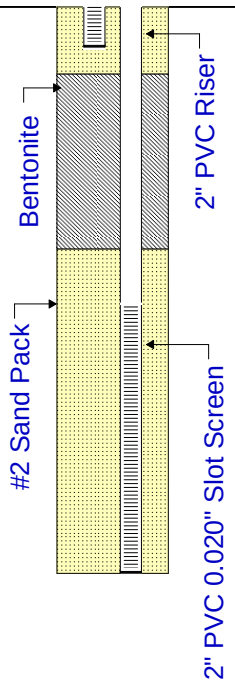
DRILLING LOG
Well No. MW-21S/MW-21I

Project Name: Inactive Fairfax Facility 26140
Site Location: 9901 Georgetown Pike, Great Falls, VA
Kleinfelder Project No: 20143589.001A
Client: Fairfax Petroleum Realty, LLC
Drilling Company: Allied Well Drilling
Driller: Tim Moyer
Drill Rig Type: Drilltech D25KW
Drilling Method: Air Rotary
Sampling Method: Cuttings

Start Date: 04/01/2014
End Date: 03/31/2014
Total Hole Depth: 66'
Hole Diameter: 10"
Depth to Bedrock: 66'
Top-Of-Casing Elevation: MW-21S 329.69'; MW-21I 329.71'
Water Level (Initial): ~30'
Water Level (Static): 33.51'
Logged By (Geol.): PW

Permit No.: NA
License No.: NA
Checked By: MCS
Notes: Cleared to 8' bgs

SUBSURFACE PROFILE			SAMPLE				Well Completion Details	
Depth (feet)	Graphic Log	USCS Code Soil/Geologic Description	Sample ID	Blows/6"	Penetration / Recovery	VOC (ppm) 0 2000		Depth (feet)
46–53						1.0		46–53
54–66		Weathered SCHIST				0.2		54–66
67–90		End of Borehole						67–90



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1340 Charwood Road
Suite I
Hanover, MD 21076

DRILLING LOG
Well No. MW-22

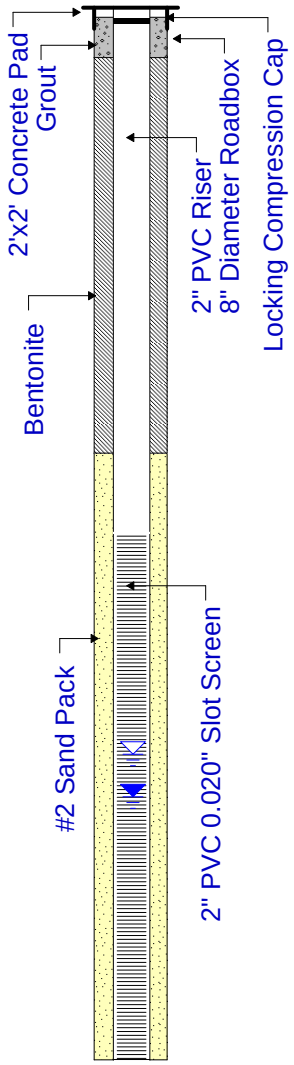
Project Name: Inactive Fairfax Facility 26140
Site Location: 9901 Georgetown Pike, Great Falls, VA
Kleinfelder Project No: 20143589
Client: Fairfax Petroleum Realty, LLC
Drilling Company: Allied Well Drilling
Driller: Tim Moyer
Drill Rig Type: Drilltech D25KW
Drilling Method: Air Rotary
Sampling Method: Cuttings

Start Date: 04/01/2014
End Date: 04/03/2014
Total Hole Depth: 40'
Hole Diameter: 6"
Depth to Bedrock: NE
Top-Of-Casing Elevation: 320.97'
Water Level (Initial): ~30'
Water Level (Static): 28.39'
Logged By (Geol.): PW

Permit No.: NA
License No.: NA
Checked By: MCS
Notes: Cleared to 8' bgs

SUBSURFACE PROFILE | **SAMPLE**

Depth (feet)	Graphic Log	USCS Code Soil/Geologic Description	Sample ID	Blows/6"	Penetration / Recovery	VOC (ppm) 0–2000	Well Completion Details	Depth (feet)
0		Ground Surface						0
0–1		Asphalt						1
1–10		Yellow, dry to moist, sandy SILT, loose, non-plastic				0.0; 0.0; 0.0; 0.0		2–10
10–30		Yellowish brown, moist, SCHIST sapprolite				0.0; 0.0		11–30
30–40		Olive, moist to wet, SCHIST, sapprolite				0.0		31–40
40		End of Borehole						41



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1340 Charwood Road
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Hanover, MD 21076

DRILLING LOG
Boring No. MW-23D

Project Name: Inactive Fairfax Facility 26140
Site Location: 9901 Georgetown Pike, Great Falls, VA
Kleinfelder Project No: 20143589.001A
Client: Fairfax Petroleum Realty, LLC.
Drilling Company: Allied Well Drilling
Driller: Tim Moyer
Drill Rig Type: Drilltech D25KW
Drilling Method: Air Rotary
Sampling Method: Hand auger/Cuttings

Start Date: 03/31/2014
End Date: 03/31/2014
Total Hole Depth: 68'
Hole Diameter: 10"
Depth to Bedrock: ~65'
Surface Elevation: NA
Water Level (Initial): ~30'
Water Level (Static): NR
Logged By (Geol.): PW

Permit No.: NA
License No.: NA
Checked By:
Notes: Cleared to 8' bgs

SUBSURFACE PROFILE | **SAMPLE**

Depth (feet)	Graphic Log	USCS Code Soil/Geologic Description	Sample ID	VOC (ppm) 0–2000	Blows/6"	Penetration/ Recovery	Depth (feet)
0		Ground Surface		0.0			0
1		Asphalt					1
2		Red brown, moist, silty CLAY, low plasticity, (fill)		0.0			2
3							3
4				0.0			4
5		Red brown, moist, silty CLAY, low plasticity					5
6				0.1			6
7							7
8							8
9							9
10							10
11							11
12							12
13							13
14							14
15							15
16		Red, moist, CLAY, medium plasticity					16
17							17
18							18
19							19
20							20
21							21
22							22
23							23
24							24
25							25
26							26
27							27
28							28
29		Brown, wet, SCHIST sapprolite					29
30							30
31							31
32							32
33							33
34							34
35							35
36							36
37							37
38							38
39				0.1			39
40							40
41			MW-23D (40-42)				41
42							42
43							43
44							44
45							45
46							46
47							47
48							48
49				1.8			49
50							50
51							51
52							52
53							53
54							54
55							55

VOC - Volatile Organic Compound
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USCS - Unified Soil Classification System
bgs - below ground surface
ppm - parts per million
WH- Weight of Hammer

1340 Charwood Road
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Hanover, MD 21076

DRILLING LOG
Boring No. MW-23D

Project Name: Inactive Fairfax Facility 26140
Site Location: 9901 Georgetown Pike, Great Falls, VA
Kleinfelder Project No: 20143589.001A
Client: Fairfax Petroleum Realty, LLC.
Drilling Company: Allied Well Drilling
Driller: Tim Moyer
Drill Rig Type: Drilltech D25KW
Drilling Method: Air Rotary
Sampling Method: Hand auger/Cuttings

Start Date: 03/31/2014
End Date: 03/31/2014
Total Hole Depth: 68'
Hole Diameter: 10"
Depth to Bedrock: ~65'
Surface Elevation: NA
Water Level (Initial): ~30'
Water Level (Static): NR
Logged By (Geol.): PW

Permit No.: NA
License No.: NA
Checked By:
Notes: Cleared to 8' bgs

SUBSURFACE PROFILE | **SAMPLE**

Depth (feet)	Graphic Log	USCS Code Soil/Geologic Description	Sample ID	VOC (ppm) 0–2000	Blows/6"	Penetration/ Recovery	Depth (feet)
56–64							56–64
59				0.4			59
65–68		BEDROCK					65–68
69		End of Borehole					69
70–110							70–110

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Hanover, MD 21076

DRILLING LOG
Well No. MW-24

Project Name: Inactive Fairfax Facility 26140
Site Location: 9901 Georgetown Pike, Great Falls, VA
Kleinfelder Project No: 20143589
Client: Fairfax Petroleum Realty, LLC
Drilling Company: Odyssey Environmental Services
Driller: Jeff Zelko
Drill Rig Type: CME 75
Drilling Method: Hollow-stem auger
Sampling Method: Split Spoon

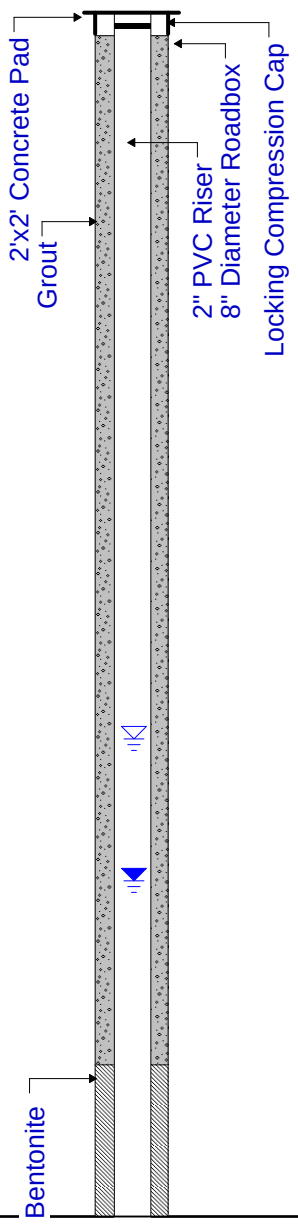
Start Date: 03/31/2014
End Date: 03/31/2014
Total Hole Depth: 60'
Hole Diameter: 6.25"
Depth to Bedrock: NE
Top-Of-Casing Elevation: 324.49'
Water Level (Initial): ~33'
Water Level (Static): 27.62'
Logged By (Geol.): TB

Permit No.: NA
License No.: NA
Checked By: PW
Notes: Cleared to 8' bgs

SUBSURFACE PROFILE | **SAMPLE**

Depth (feet)	USCS Code / Soil/Geologic Description	Sample ID	Blows/6"	Penetration / Recovery	VOC (ppm) 0–2000
0	Ground Surface				
1	Asphalt				0.3
2–12	Red brown, moist, silty CLAY, low plasticity, (fill)				0.1, 0.1, 0.1, 0.0
9			6-7-6-7	24/18	0.0
11			3-3-3-2	24/10	0.0
13–17	Orange red, moist, saprolite quartz grains, micaceous		3-6-6-7	24/6	0.0
15			5-4-4-6	24/20	0.0
17			6-7-11-8	24/16	0.0
19–26	Red brown, moist, SCHIST saprolite		5-2-3-4	24/6	0.0
21–26	Fracture with black mineralization		3-3-4-5	24/20	0.0
23			4-4-5-5	24/24	0.0
25			3-3-5-7	24/24	0.0
27–29	Light brown, moist, SCHIST, sapprolite with black and orange mineralization throughout fractures		6-4-4-6	24/24	0.0
29	quartz vein and quartzite lense @ 26' bgs		7-4-4-5	24/24	
33					0.0
34			2-3-4-6	24/24	
37–38	quartz vein and quartzite lense @ 38' bgs				0.0
39			3-4-6-8	24/24	
42					0.0
44			6-9-9-9	24/24	

Well Completion Details



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USCS - Unified Soil Classification System
WOR - weight of rod
WOH - weight of hammer
ppm - parts per million

1340 Charwood Road
Suite I
Hanover, MD 21076

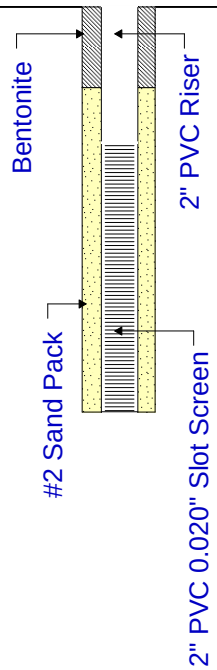
DRILLING LOG
Well No. MW-24

Project Name: Inactive Fairfax Facility 26140
Site Location: 9901 Georgetown Pike, Great Falls, VA
Kleinfelder Project No: 20143589
Client: Fairfax Petroleum Realty, LLC
Drilling Company: Odyssey Environmental Services
Driller: Jeff Zelko
Drill Rig Type: CME 75
Drilling Method: Hollow-stem auger
Sampling Method: Split Spoon

Start Date: 03/31/2014
End Date: 03/31/2014
Total Hole Depth: 60'
Hole Diameter: 6.25"
Depth to Bedrock: NE
Top-Of-Casing Elevation: 324.49'
Water Level (Initial): ~33'
Water Level (Static): 27.62'
Logged By (Geol.): TB

Permit No.: NA
License No.: NA
Checked By: PW
Notes: Cleared to 8' bgs

SUBSURFACE PROFILE			SAMPLE					
Depth (feet)	Graphic Log	USCS Code Soil/Geologic Description	Sample ID	Blows/6"	Penetration / Recovery	VOC (ppm) 0 – 2000	Well Completion Details	Depth (feet)
46–48						0.0		
49–50				5-4-7-9	24/24			
51–53						0.0		
54–55				12-50/4	24/10			
56–58						0.0		
59–60				13-50/5	24/10			
61		End of Borehole						



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1340 Charwood Road
Suite I
Hanover, MD 21076

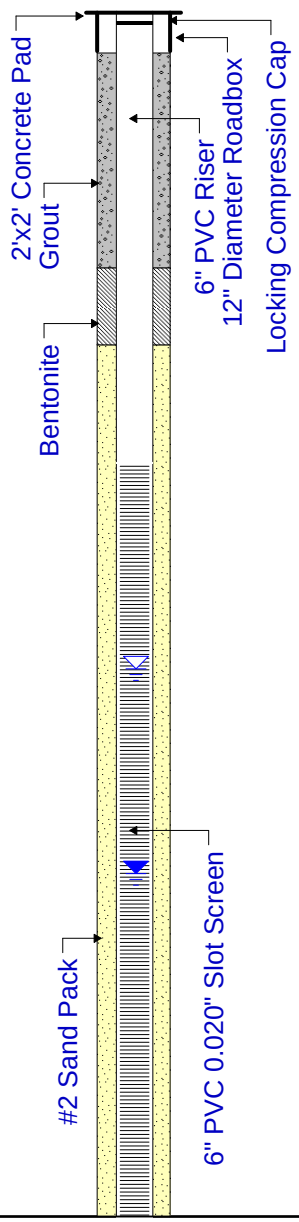
DRILLING LOG
Well No. RW-1

Project Name: Inactive Fairfax Facility 26140
Site Location: 9901 Georgetown Pike, Great Falls, VA
Kleinfelder Project No: 20143589.001A
Client: Fairfax Petroleum Realty, LLC
Drilling Company: Allied Well Drilling
Driller: Tim Moyer
Drill Rig Type: Drilltech D25KW
Drilling Method: Air Rotary
Sampling Method: Cuttings

Start Date: 03/07/2014
End Date: 03/07/2014
Total Hole Depth: 100'
Hole Diameter: 10"/13"
Depth to Bedrock: ~63'
Top-Of-Casing Elevation: 328.31'
Water Level (Initial): ~40'
Water Level (Static): 30.51'
Logged By (Geol.): P. Wertz

Permit No.: NA
License No.: NA
Checked By: MCS
Notes:

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	USCS Code Soil/Geologic Description	Sample ID	Blows/6"	Penetration / Recovery	VOC (ppm) 0 – 2000	Well Completion Details
0		Ground Surface					
1		Concrete/Crushed stone fill				0.0	
2–17		***CL*** Red, moist, CLAY, medium plasticity, soft					
18						0.0	
19		Reddish brown, SCHIST saprolite				0.0	
20–38		Reddish yellow, SCHIST saprolite					
39		Yellowish brown, SCHIST saprolite				4.4	
49						10.5	



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1340 Charwood Road
Suite I
Hanover, MD 21076

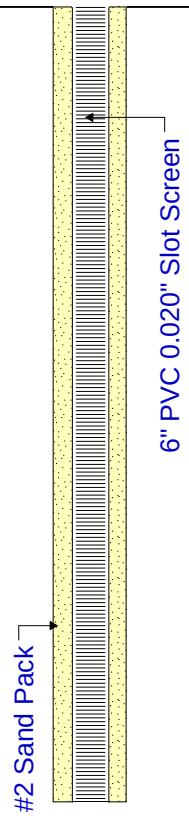
DRILLING LOG
Well No. RW-1

Project Name: Inactive Fairfax Facility 26140
Site Location: 9901 Georgetown Pike, Great Falls, VA
Kleinfelder Project No: 20143589.001A
Client: Fairfax Petroleum Realty, LLC
Drilling Company: Allied Well Drilling
Driller: Tim Moyer
Drill Rig Type: Drilltech D25KW
Drilling Method: Air Rotary
Sampling Method: Cuttings

Start Date: 03/07/2014
End Date: 03/07/2014
Total Hole Depth: 100'
Hole Diameter: 10"/13"
Depth to Bedrock: ~63'
Top-Of-Casing Elevation: 328.31'
Water Level (Initial): ~40'
Water Level (Static): 30.51'
Logged By (Geol.): P. Wertz

Permit No.: NA
License No.: NA
Checked By: MCS
Notes:

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	USCS Code Soil/Geologic Description	Sample ID	Blows/6"	Penetration / Recovery	VOC (ppm) 0 – 2000	Well Completion Details
60		Olive yellow, SCHIST saprolite				3.3	
63		Competent BEDROCK, Olive yellow, SCHISTwith quartzite lenses					
69						18.2	
79						9.3	
80		Water producing fracture at 80' bgs					
100		End of Borehole					



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1340 Charwood Road
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Hanover, MD 21076

DRILLING LOG
Well No. SVE-1

Project Name: Inactive Fairfax Facility 26140
Site Location: 9901 Georgetown Pike, Great Falls, VA
Kleinfelder Project No: 20143589.001A
Client: Fairfax Petroleum Realty, LLC
Drilling Company: Allied Well Drilling
Driller: Zach Gilbach
Drill Rig Type: Diedrich D-120
Drilling Method: Hollow-stem auger
Sampling Method: Split-spoon/Cuttings

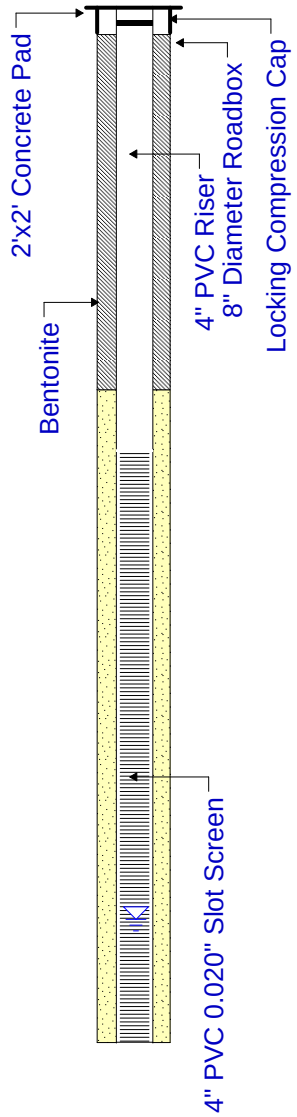
Start Date: 02/17/2014
End Date: 02/17/2014
Total Hole Depth: 35'
Hole Diameter: 10.25"
Depth to Bedrock: NE
Top-Of-Casing Elevation: NA
Water Level (Initial): NE
Water Level (Static): 30.80'
Logged By (Geol.): P. Wertz

Permit No.: NA
License No.: NA
Checked By: MCS
Notes:

SUBSURFACE PROFILE | **SAMPLE**

Depth (feet)	USCS Code / Soil/Geologic Description	Sample ID	Blows/6"	Penetration / Recovery	VOC (ppm) 0–2000
0	Ground Surface				
0–1	Concrete				
1–8	***MH*** Brown, moist, SILT with clay, medium plasticity, soft, micaceous; ***MH*** Red, moist, clayey SILT, medium plasticity, soft, micaceous, decomposed schist		3-3-5-5	NR	0.0
8–35	Yellowish brown, moist, SCHIST saprolite, fine grained, highly weathere, moderately fractured, non-plastic		5-6-7-19	NR	0.0
			5-14-12-23	NR	0.0
			12-16-22-23	NR	0.0
			15-24-34-45	NR	0.0
			12-16-16-28	NR	0.0
			10-18-28-25	NR	0.0
35	End of Borehole				

Well Completion Details



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USCS - Unified Soil Classification System
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1340 Charwood Road
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Hanover, MD 21076

DRILLING LOG
Well No. SVE-2

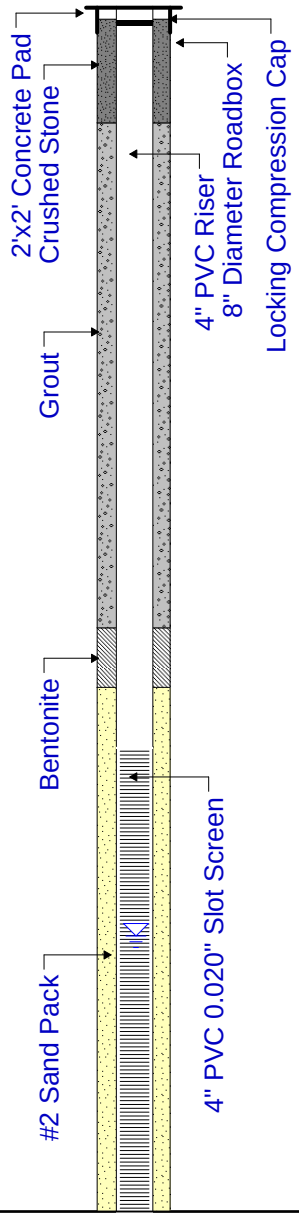
Project Name: Inactive Fairfax Facility 26140
Site Location: 9901 Georgetown Pike, Great Falls, VA
Kleinfelder Project No: 20143589.001A
Client: Fairfax Petroleum Realty, LLC
Drilling Company: Allied Well Drilling
Driller: Zach Gilbach
Drill Rig Type: Diedrich D-120
Drilling Method: Hollow-stem auger
Sampling Method: Split-spoon/Cuttings

Start Date: 02/18/2014
End Date: 02/18/2014
Total Hole Depth: 45'
Hole Diameter: 10.25"
Depth to Bedrock: NE
Top-Of-Casing Elevation: 329.64'
Water Level (Initial): NE
Water Level (Static): 31.36'
Logged By (Geol.): P. Wertz

Permit No.: NA
License No.: NA
Checked By: MCS
Notes:

SUBSURFACE PROFILE | **SAMPLE**

Depth (feet)	USCS Code / Soil/Geologic Description	Sample ID	Blows/6"	Penetration / Recovery	VOC (ppm) 0–2000
0	Ground Surface				
0–13	Crushed Stone #57/peagravel to 13' bgs				
13–40	Yellowish brown, moist, SCHIST saprolite				
14			8-18-29-24	NR	0.1
19			9-15-17-15	NR	0.0
24			7-11-11-18	NR	0.1
28	1" quartz vein at 28' bgs				
29			14-20-22-20	NR	0.1
34			13-14-23-28	NR	0.2
39			17-16-17-20	NR	74.1



Well Completion Details

VOC - Volatile Organic Compound
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NS - Not Sampled
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NE - Not Encountered
bgs - below ground surface

USCS - Unified Soil Classification System
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1340 Charwood Road
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Hanover, MD 21076

DRILLING LOG
Well No. SVE-2

Project Name: Inactive Fairfax Facility 26140
Site Location: 9901 Georgetown Pike, Great Falls, VA
Kleinfelder Project No: 20143589.001A
Client: Fairfax Petroleum Realty, LLC
Drilling Company: Allied Well Drilling
Driller: Zach Gilbach
Drill Rig Type: Diedrich D-120
Drilling Method: Hollow-stem auger
Sampling Method: Split-spoon/Cuttings

Start Date: 02/18/2014
End Date: 02/18/2014
Total Hole Depth: 45'
Hole Diameter: 10.25"
Depth to Bedrock: NE
Top-Of-Casing Elevation: 329.64'
Water Level (Initial): NE
Water Level (Static): 31.36'
Logged By (Geol.): P. Wertz

Permit No.: NA
License No.: NA
Checked By: MCS
Notes:

SUBSURFACE PROFILE			SAMPLE					
Depth (feet)	Graphic Log	USCS Code Soil/Geologic Description	Sample ID	Blows/6"	Penetration / Recovery	VOC (ppm) 0 – 2000	Well Completion Details	Depth (feet)
41–45			SVE-2 (43-45)	10-11 24-50/4"	NR	714.9	#2 Sand Pack; 4" PVC 0.020" Slot Screen	41–45
45		End of Borehole						
46–80								46–80

VOC - Volatile Organic Compound
NA - Not Applicable
NS - Not Sampled
NR - Not Recorded
NM - Not Measured
NE - Not Encountered
bgs - below ground surface

USCS - Unified Soil Classification System
WOR - weight of rod
WOH - weight of hammer
ppm - parts per million

1340 Charwood Road
Suite I
Hanover, MD 21076

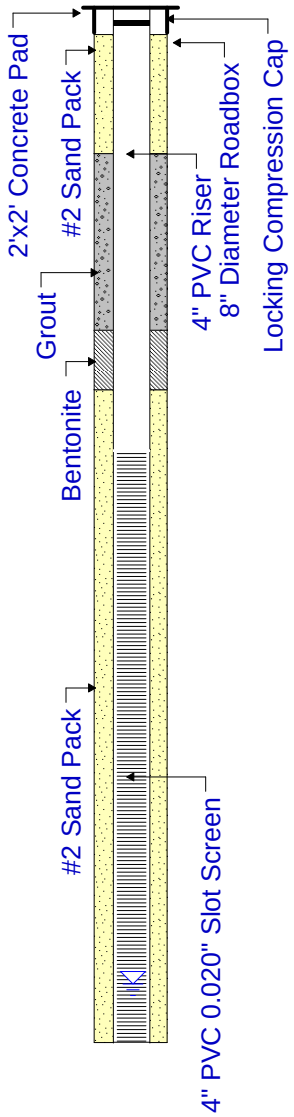
DRILLING LOG
Well No. SVE-3

Project Name: Inactive Fairfax Facility 26140
Site Location: 9901 Georgetown Pike, Great Falls, VA
Kleinfelder Project No: 20143589.001A
Client: Fairfax Petroleum Realty, LLC
Drilling Company: Allied Well Drilling
Driller: Zach Gilbach
Drill Rig Type: Diedrich D-120
Drilling Method: Hollow-stem auger
Sampling Method: Split-spoon/Cuttings

Start Date: 02/19/2014
End Date: 02/19/2014
Total Hole Depth: 35'
Hole Diameter: 10.25"
Depth to Bedrock: NE
Top-Of-Casing Elevation: NA
Water Level (Initial): NE
Water Level (Static): 32.98'
Logged By (Geol.): P. Wertz

Permit No.: NA
License No.: NA
Checked By: MCS
Notes:

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	USCS Code Soil/Geologic Description	Sample ID	Blows/6"	Penetration / Recovery	VOC (ppm) 0 – 2000	Well Completion Details
0		Ground Surface					
0–1		Concrete					
1–8		***MH*** Red, moist, SILT with clay, non-plastic, weakly cemented, firm		6-9-8-9	NR	0.0	
8–13		***MH*** Red, moist, SILT with clay, non-plastic, weakly cemented, decomposed schist saprolite		7-8-8-11	NR	0.0	
13–18		Reddish yellow, moist, SCHIST saprolite		11-14-15-18	NR	0.0	
18–35		Yellowish brown, moist, SCHIST, saprolite		9-10-13-15	NR	0.0	
				13-13-15-16	NR	0.0	
				10-7-8-16	NR	0.0	
				9-12-13-16	NR	0.0	
35		End of Borehole					



VOC - Volatile Organic Compound
NA - Not Applicable
NS - Not Sampled
NR - Not Recorded
NM - Not Measured
NE - Not Encountered
bgs - below ground surface

USCS - Unified Soil Classification System
WOR - weight of rod
WOH - weight of hammer
ppm - parts per million

1340 Charwood Road
Suite I
Hanover, MD 21076

DRILLING LOG
Well No. SVE-4

Project Name: Inactive Fairfax Facility 26140
Site Location: 9901 Georgetown Pike, Great Falls, VA
Kleinfelder Project No: 20143589.001A
Client: Fairfax Petroleum Realty, LLC
Drilling Company: Allied Well Drilling
Driller: Zach Gilbach
Drill Rig Type: Diedrich D-120
Drilling Method: Hollow-stem auger
Sampling Method: Split-spoon/Cuttings

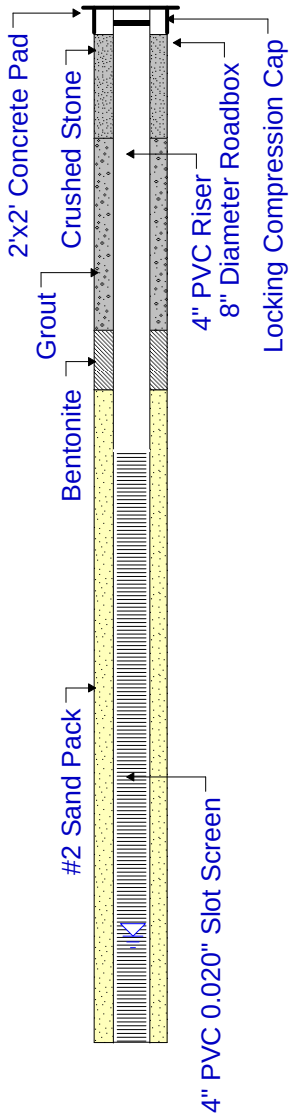
Start Date: 02/19/2014
End Date: 02/19/2014
Total Hole Depth: 35'
Hole Diameter: 10.25"
Depth to Bedrock: NE
Top-Of-Casing Elevation: NA
Water Level (Initial): NE
Water Level (Static): 31.37'
Logged By (Geol.): P. Wertz

Permit No.: NA
License No.: NA
Checked By: MCS
Notes:

SUBSURFACE PROFILE | **SAMPLE**

Depth (feet)	Graphic Log	USCS Code Soil/Geologic Description	Sample ID	Blows/6"	Penetration / Recovery	VOC (ppm) 0–2000
0		Ground Surface				
		Crushed stone #57/peagravel to 13' bgs				
13		Red, moist, SCHIST saprolite				
				6-5-6-7	NR	0.0
				7-7-10-16	NR	0.0
				11-15-16-16	NR	0.0
				8-8-7-36	NR	0.0
				11-16-25-26	NR	0.0
35		End of Borehole				

Well Completion Details



VOC - Volatile Organic Compound
NA - Not Applicable
NS - Not Sampled
NR - Not Recorded
NM - Not Measured
NE - Not Encountered
bgs - below ground surface

USCS - Unified Soil Classification System
WOR - weight of rod
WOH - weight of hammer
ppm - parts per million

1340 Charwood Road
Suite I
Hanover, MD 21076

DRILLING LOG
Well No. SVE-5

Project Name: Inactive Fairfax Facility 26140
Site Location: 9901 Georgetown Pike, Great Falls, VA
Kleinfelder Project No: 20143589.001A
Client: Fairfax Petroleum Realty, LLC
Drilling Company: Allied Well Drilling
Driller: Zach Gilbach
Drill Rig Type: Diedrich D-120
Drilling Method: Hollow-stem auger
Sampling Method: Split-spoon/Cuttings

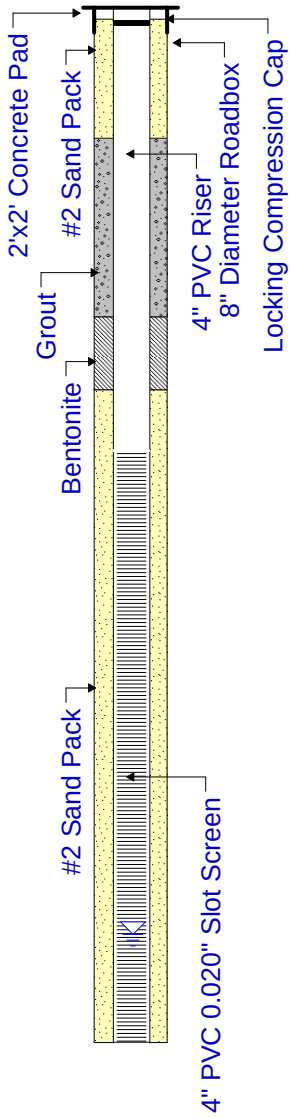
Start Date: 02/18/2014
End Date: 02/18/2014
Total Hole Depth: 35'
Hole Diameter: 10.25"
Depth to Bedrock: NE
Top-Of-Casing Elevation: NA
Water Level (Initial): NE
Water Level (Static): 31.31'
Logged By (Geol.): P. Wertz

Permit No.: NA
License No.: NA
Checked By: MCS
Notes:

SUBSURFACE PROFILE | **SAMPLE**

Depth (feet)	USCS Code / Soil/Geologic Description	Sample ID	Blows/6"	Penetration / Recovery	VOC (ppm) (0–2000)
0	Ground Surface				
0–1	Concrete				
1–8	Reddish yellow, moist, SILT with clay, low plasticity, firm		21-3-4-4	NR	0.0
8–13	Reddish yellow, moist, SILT with clay, non-plastic, decomposed schist saprolite, firm		6-8-11-17	NR	0.0
13–35	Yellowish brown, moist, SCHIST saprolite		10-18-20-19	NR	0.0
			10-10-16-13	NR	0.6
			24-16-27-28	NR	7.1
			8-15-16-20	NR	62.7
			9-11-15-22	NR	7.2
35	End of Borehole				

Well Completion Details



VOC - Volatile Organic Compound
NA - Not Applicable
NS - Not Sampled
NR - Not Recorded
NM - Not Measured
NE - Not Encountered
bgs - below ground surface

USCS - Unified Soil Classification System
WOR - weight of rod
WOH - weight of hammer
ppm - parts per million

APPENDIX B
Lancaster Laboratories Analysis Reports – Groundwater

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Kleinfelder
1 Speen Street
Framingham MA 01701

April 07, 2014

Project: Fairfax 26140

Submittal Date: 03/26/2014
Group Number: 1462394
PO Number: 51141-293031
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
MW-1 Grab Water	7408332
MW-2 Grab Water	7408333
MW-9 Grab Water	7408334
MW-11 Grab Water	7408335
MW-13 Grab Water	7408336
MW-14 Grab Water	7408337
MW-15 Grab Water	7408338
MW-16D Grab Water	7408339
PW-1 Grab Water	7408340
SVE-2 Grab Water	7408341
Trip Blank Water	7408342

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

ELECTRONIC COPY TO	Kleinfelder	Attn: Mark Steele
ELECTRONIC COPY TO	Kleinfelder	Attn: Angela Vogt
ELECTRONIC COPY TO	Kleinfelder	Attn: Venelda Williams
ELECTRONIC COPY TO	Kleinfelder	Attn: Charlie Low
ELECTRONIC COPY TO	Kleinfelder	Attn: Paxton Wertz

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: MW-1 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7408332
LL Group # 1462394
Account # 12152

Project Name: Fairfax 26140

Collected: 03/25/2014 13:28 by TB

Submitted: 03/26/2014 17:20
Reported: 04/07/2014 19:23

Kleinfelder
1 Speen Street
Framingham MA 01701

FXP01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	< 2,000	2,000	100
10335	Acrolein	107-02-8	< 10,000	10,000	100
10335	Acrylonitrile	107-13-1	< 2,000	2,000	100
10335	**t-Amyl methyl ether**	994-05-8	**850**	500	100
10335	Benzene	71-43-2	< 500	500	100
10335	Bromodichloromethane	75-27-4	< 500	500	100
10335	Bromoform	75-25-2	< 500	500	100
10335	Bromomethane	74-83-9	< 500	500	100
10335	2-Butanone	78-93-3	< 1,000	1,000	100
10335	t-Butyl alcohol	75-65-0	< 8,000	8,000	100
10335	n-Butylbenzene	104-51-8	< 500	500	100
10335	sec-Butylbenzene	135-98-8	< 500	500	100
10335	Carbon Tetrachloride	56-23-5	< 500	500	100
10335	Chlorobenzene	108-90-7	< 500	500	100
10335	Chloroethane	75-00-3	< 500	500	100
10335	2-Chloroethyl Vinyl Ether	110-75-8	< 1,000	1,000	100
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	< 500	500	100
10335	Chloromethane	74-87-3	< 500	500	100
10335	Dibromochloromethane	124-48-1	< 500	500	100
10335	1,2-Dichlorobenzene	95-50-1	< 500	500	100
10335	1,3-Dichlorobenzene	541-73-1	< 500	500	100
10335	1,4-Dichlorobenzene	106-46-7	< 500	500	100
10335	1,1-Dichloroethane	75-34-3	< 500	500	100
10335	1,2-Dichloroethane	107-06-2	< 500	500	100
10335	1,1-Dichloroethene	75-35-4	< 500	500	100
10335	cis-1,2-Dichloroethene	156-59-2	< 500	500	100
10335	trans-1,2-Dichloroethene	156-60-5	< 500	500	100
10335	1,2-Dichloropropane	78-87-5	< 500	500	100
10335	cis-1,3-Dichloropropene	10061-01-5	< 500	500	100
10335	trans-1,3-Dichloropropene	10061-02-6	< 500	500	100
10335	Ethyl t-butyl ether	637-92-3	< 500	500	100
10335	Ethylbenzene	100-41-4	< 500	500	100
10335	**di-Isopropyl ether**	108-20-3	**1,200**	500	100
10335	Isopropylbenzene	98-82-8	< 500	500	100
10335	p-Isopropyltoluene	99-87-6	< 500	500	100
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**71,000**	5,000	1000
10335	Methylene Chloride	75-09-2	< 500	500	100
10335	Naphthalene	91-20-3	< 500	500	100
10335	n-Propylbenzene	103-65-1	< 500	500	100
10335	1,1,2,2-Tetrachloroethane	79-34-5	< 500	500	100
10335	Tetrachloroethene	127-18-4	< 500	500	100
10335	Toluene	108-88-3	< 500	500	100
10335	1,1,1-Trichloroethane	71-55-6	< 500	500	100
10335	1,1,2-Trichloroethane	79-00-5	< 500	500	100
10335	Trichloroethene	79-01-6	< 500	500	100
10335	Trichlorofluoromethane	75-69-4	< 500	500	100
10335	1,2,4-Trimethylbenzene	95-63-6	< 500	500	100
10335	1,3,5-Trimethylbenzene	108-67-8	< 500	500	100

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Analysis Report

Sample Description: MW-1 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7408332
LL Group # 1462394
Account # 12152

Project Name: Fairfax 26140

Collected: 03/25/2014 13:28 by TB

Submitted: 03/26/2014 17:20
Reported: 04/07/2014 19:23

Kleinfelder
1 Speen Street
Framingham MA 01701

FXP01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Vinyl Chloride	75-01-4	< 500	500	100
10335	Xylene (Total)	1330-20-7	< 500	500	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
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	W140901AA	03/31/2014 21:39	Sarah A Guill	100
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	W140901AA	03/31/2014 22:03	Sarah A Guill	1000
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W140901AA	03/31/2014 21:39	Sarah A Guill	100
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W140901AA	03/31/2014 22:03	Sarah A Guill	1000

Sample Description: MW-2 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7408333
LL Group # 1462394
Account # 12152

Project Name: Fairfax 26140

Collected: 03/25/2014 11:19 by TB

Submitted: 03/26/2014 17:20
Reported: 04/07/2014 19:23

Kleinfelder
1 Speen Street
Framingham MA 01701

FXP02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	< 200	200	10
10335	Acrolein	107-02-8	< 1,000	1,000	10
10335	Acrylonitrile	107-13-1	< 200	200	10
10335	**t-Amyl methyl ether**	994-05-8	**110**	50	10
10335	Benzene	71-43-2	< 50	50	10
10335	Bromodichloromethane	75-27-4	< 50	50	10
10335	Bromoform	75-25-2	< 50	50	10
10335	Bromomethane	74-83-9	< 50	50	10
10335	2-Butanone	78-93-3	< 100	100	10
10335	**t-Butyl alcohol**	75-65-0	**2,500**	800	10
10335	n-Butylbenzene	104-51-8	< 50	50	10
10335	sec-Butylbenzene	135-98-8	< 50	50	10
10335	Carbon Tetrachloride	56-23-5	< 50	50	10
10335	Chlorobenzene	108-90-7	< 50	50	10
10335	Chloroethane	75-00-3	< 50	50	10
10335	2-Chloroethyl Vinyl Ether	110-75-8	< 100	100	10
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	< 50	50	10
10335	Chloromethane	74-87-3	< 50	50	10
10335	Dibromochloromethane	124-48-1	< 50	50	10
10335	1,2-Dichlorobenzene	95-50-1	< 50	50	10
10335	1,3-Dichlorobenzene	541-73-1	< 50	50	10
10335	1,4-Dichlorobenzene	106-46-7	< 50	50	10
10335	1,1-Dichloroethane	75-34-3	< 50	50	10
10335	1,2-Dichloroethane	107-06-2	< 50	50	10
10335	1,1-Dichloroethene	75-35-4	< 50	50	10
10335	cis-1,2-Dichloroethene	156-59-2	< 50	50	10
10335	trans-1,2-Dichloroethene	156-60-5	< 50	50	10
10335	1,2-Dichloropropane	78-87-5	< 50	50	10
10335	cis-1,3-Dichloropropene	10061-01-5	< 50	50	10
10335	trans-1,3-Dichloropropene	10061-02-6	< 50	50	10
10335	Ethyl t-butyl ether	637-92-3	< 50	50	10
10335	Ethylbenzene	100-41-4	< 50	50	10
10335	**di-Isopropyl ether**	108-20-3	**310**	50	10
10335	Isopropylbenzene	98-82-8	< 50	50	10
10335	p-Isopropyltoluene	99-87-6	< 50	50	10
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**7,500**	500	100
10335	Methylene Chloride	75-09-2	< 50	50	10
10335	Naphthalene	91-20-3	< 50	50	10
10335	n-Propylbenzene	103-65-1	< 50	50	10
10335	1,1,2,2-Tetrachloroethane	79-34-5	< 50	50	10
10335	Tetrachloroethene	127-18-4	< 50	50	10
10335	Toluene	108-88-3	< 50	50	10
10335	1,1,1-Trichloroethane	71-55-6	< 50	50	10
10335	1,1,2-Trichloroethane	79-00-5	< 50	50	10
10335	Trichloroethene	79-01-6	< 50	50	10
10335	Trichlorofluoromethane	75-69-4	< 50	50	10
10335	1,2,4-Trimethylbenzene	95-63-6	< 50	50	10

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Analysis Report

Sample Description: MW-2 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7408333
LL Group # 1462394
Account # 12152

Project Name: Fairfax 26140

Collected: 03/25/2014 11:19 by TB

Submitted: 03/26/2014 17:20
Reported: 04/07/2014 19:23

Kleinfelder
1 Speen Street
Framingham MA 01701

FXP02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	1,3,5-Trimethylbenzene	108-67-8	< 50	50	10
10335	Vinyl Chloride	75-01-4	< 50	50	10
10335	Xylene (Total)	1330-20-7	< 50	50	10

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
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	W140901AA	03/31/2014 22:27	Sarah A Guill	10
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	W140901AA	03/31/2014 22:51	Sarah A Guill	100
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W140901AA	03/31/2014 22:27	Sarah A Guill	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W140901AA	03/31/2014 22:51	Sarah A Guill	100

Sample Description: MW-9 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7408334
LL Group # 1462394
Account # 12152

Project Name: Fairfax 26140

Collected: 03/24/2014 13:45 by TB

Submitted: 03/26/2014 17:20
Reported: 04/07/2014 19:23

Kleinfelder
1 Speen Street
Framingham MA 01701

FXP09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	< 20	20	1
10335	Acrolein	107-02-8	< 100	100	1
10335	Acrylonitrile	107-13-1	< 20	20	1
10335	t-Amyl methyl ether	994-05-8	< 5	5	1
10335	Benzene	71-43-2	< 5	5	1
10335	Bromodichloromethane	75-27-4	< 5	5	1
10335	Bromoform	75-25-2	< 5	5	1
10335	Bromomethane	74-83-9	< 5	5	1
10335	2-Butanone	78-93-3	< 10	10	1
10335	t-Butyl alcohol	75-65-0	< 80	80	1
10335	n-Butylbenzene	104-51-8	< 5	5	1
10335	sec-Butylbenzene	135-98-8	< 5	5	1
10335	Carbon Tetrachloride	56-23-5	< 5	5	1
10335	Chlorobenzene	108-90-7	< 5	5	1
10335	Chloroethane	75-00-3	< 5	5	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	< 10	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	< 5	5	1
10335	Chloromethane	74-87-3	< 5	5	1
10335	Dibromochloromethane	124-48-1	< 5	5	1
10335	1,2-Dichlorobenzene	95-50-1	< 5	5	1
10335	1,3-Dichlorobenzene	541-73-1	< 5	5	1
10335	1,4-Dichlorobenzene	106-46-7	< 5	5	1
10335	1,1-Dichloroethane	75-34-3	< 5	5	1
10335	1,2-Dichloroethane	107-06-2	< 5	5	1
10335	1,1-Dichloroethene	75-35-4	< 5	5	1
10335	**cis-1,2-Dichloroethene**	156-59-2	**49**	5	1
10335	trans-1,2-Dichloroethene	156-60-5	< 5	5	1
10335	1,2-Dichloropropane	78-87-5	< 5	5	1
10335	cis-1,3-Dichloropropene	10061-01-5	< 5	5	1
10335	trans-1,3-Dichloropropene	10061-02-6	< 5	5	1
10335	Ethyl t-butyl ether	637-92-3	< 5	5	1
10335	Ethylbenzene	100-41-4	< 5	5	1
10335	**di-Isopropyl ether**	108-20-3	**6**	5	1
10335	Isopropylbenzene	98-82-8	< 5	5	1
10335	p-Isopropyltoluene	99-87-6	< 5	5	1
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**12**	5	1
10335	Methylene Chloride	75-09-2	< 5	5	1
10335	Naphthalene	91-20-3	< 5	5	1
10335	n-Propylbenzene	103-65-1	< 5	5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	< 5	5	1
10335	**Tetrachloroethene**	127-18-4	**7**	5	1
10335	Toluene	108-88-3	< 5	5	1
10335	1,1,1-Trichloroethane	71-55-6	< 5	5	1
10335	1,1,2-Trichloroethane	79-00-5	< 5	5	1
10335	Trichloroethene	79-01-6	< 5	5	1
10335	Trichlorofluoromethane	75-69-4	< 5	5	1
10335	1,2,4-Trimethylbenzene	95-63-6	< 5	5	1

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Analysis Report

Sample Description: MW-9 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7408334
LL Group # 1462394
Account # 12152

Project Name: Fairfax 26140

Collected: 03/24/2014 13:45 by TB

Submitted: 03/26/2014 17:20
Reported: 04/07/2014 19:23

Kleinfelder
1 Speen Street
Framingham MA 01701

FXP09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	1,3,5-Trimethylbenzene	108-67-8	< 5	5	1
10335	Vinyl Chloride	75-01-4	< 5	5	1
10335	Xylene (Total)	1330-20-7	< 5	5	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
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	W140901AA	03/31/2014 23:14	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W140901AA	03/31/2014 23:14	Sarah A Guill	1

Sample Description: MW-11 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7408335
LL Group # 1462394
Account # 12152

Project Name: Fairfax 26140

Collected: 03/24/2014 14:57 by TB

Submitted: 03/26/2014 17:20
Reported: 04/07/2014 19:23

Kleinfelder
1 Speen Street
Framingham MA 01701

FXP11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	< 20	20	1
10335	Acrolein	107-02-8	< 100	100	1
10335	Acrylonitrile	107-13-1	< 20	20	1
10335	t-Amyl methyl ether	994-05-8	< 5	5	1
10335	Benzene	71-43-2	< 5	5	1
10335	Bromodichloromethane	75-27-4	< 5	5	1
10335	Bromoform	75-25-2	< 5	5	1
10335	Bromomethane	74-83-9	< 5	5	1
10335	2-Butanone	78-93-3	< 10	10	1
10335	t-Butyl alcohol	75-65-0	< 80	80	1
10335	n-Butylbenzene	104-51-8	< 5	5	1
10335	sec-Butylbenzene	135-98-8	< 5	5	1
10335	Carbon Tetrachloride	56-23-5	< 5	5	1
10335	Chlorobenzene	108-90-7	< 5	5	1
10335	Chloroethane	75-00-3	< 5	5	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	< 10	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	< 5	5	1
10335	Chloromethane	74-87-3	< 5	5	1
10335	Dibromochloromethane	124-48-1	< 5	5	1
10335	1,2-Dichlorobenzene	95-50-1	< 5	5	1
10335	1,3-Dichlorobenzene	541-73-1	< 5	5	1
10335	1,4-Dichlorobenzene	106-46-7	< 5	5	1
10335	1,1-Dichloroethane	75-34-3	< 5	5	1
10335	1,2-Dichloroethane	107-06-2	< 5	5	1
10335	1,1-Dichloroethene	75-35-4	< 5	5	1
10335	cis-1,2-Dichloroethene	156-59-2	< 5	5	1
10335	trans-1,2-Dichloroethene	156-60-5	< 5	5	1
10335	1,2-Dichloropropane	78-87-5	< 5	5	1
10335	cis-1,3-Dichloropropene	10061-01-5	< 5	5	1
10335	trans-1,3-Dichloropropene	10061-02-6	< 5	5	1
10335	Ethyl t-butyl ether	637-92-3	< 5	5	1
10335	Ethylbenzene	100-41-4	< 5	5	1
10335	**di-Isopropyl ether**	108-20-3	**25**	5	1
10335	Isopropylbenzene	98-82-8	< 5	5	1
10335	p-Isopropyltoluene	99-87-6	< 5	5	1
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**41**	5	1
10335	Methylene Chloride	75-09-2	< 5	5	1
10335	Naphthalene	91-20-3	< 5	5	1
10335	n-Propylbenzene	103-65-1	< 5	5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	< 5	5	1
10335	Tetrachloroethene	127-18-4	< 5	5	1
10335	Toluene	108-88-3	< 5	5	1
10335	1,1,1-Trichloroethane	71-55-6	< 5	5	1
10335	1,1,2-Trichloroethane	79-00-5	< 5	5	1
10335	Trichloroethene	79-01-6	< 5	5	1
10335	Trichlorofluoromethane	75-69-4	< 5	5	1
10335	1,2,4-Trimethylbenzene	95-63-6	< 5	5	1
10335	1,3,5-Trimethylbenzene	108-67-8	< 5	5	1

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Analysis Report

Sample Description: MW-11 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7408335
LL Group # 1462394
Account # 12152

Project Name: Fairfax 26140

Collected: 03/24/2014 14:57 by TB

Submitted: 03/26/2014 17:20
Reported: 04/07/2014 19:23

Kleinfelder
1 Speen Street
Framingham MA 01701

FXP11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Vinyl Chloride	75-01-4	< 5	5	1
10335	Xylene (Total)	1330-20-7	< 5	5	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
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	W140901AA	03/31/2014 23:38	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W140901AA	03/31/2014 23:38	Sarah A Guill	1

Sample Description: MW-13 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7408336
LL Group # 1462394
Account # 12152

Project Name: Fairfax 26140

Collected: 03/24/2014 15:25 by TB

Submitted: 03/26/2014 17:20
Reported: 04/07/2014 19:23

Kleinfelder
1 Speen Street
Framingham MA 01701

FXP13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	< 20	20	1
10335	Acrolein	107-02-8	< 100	100	1
10335	Acrylonitrile	107-13-1	< 20	20	1
10335	t-Amyl methyl ether	994-05-8	< 5	5	1
10335	Benzene	71-43-2	< 5	5	1
10335	Bromodichloromethane	75-27-4	< 5	5	1
10335	Bromoform	75-25-2	< 5	5	1
10335	Bromomethane	74-83-9	< 5	5	1
10335	2-Butanone	78-93-3	< 10	10	1
10335	t-Butyl alcohol	75-65-0	< 80	80	1
10335	n-Butylbenzene	104-51-8	< 5	5	1
10335	sec-Butylbenzene	135-98-8	< 5	5	1
10335	Carbon Tetrachloride	56-23-5	< 5	5	1
10335	Chlorobenzene	108-90-7	< 5	5	1
10335	Chloroethane	75-00-3	< 5	5	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	< 10	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	< 5	5	1
10335	Chloromethane	74-87-3	< 5	5	1
10335	Dibromochloromethane	124-48-1	< 5	5	1
10335	1,2-Dichlorobenzene	95-50-1	< 5	5	1
10335	1,3-Dichlorobenzene	541-73-1	< 5	5	1
10335	1,4-Dichlorobenzene	106-46-7	< 5	5	1
10335	1,1-Dichloroethane	75-34-3	< 5	5	1
10335	1,2-Dichloroethane	107-06-2	< 5	5	1
10335	1,1-Dichloroethene	75-35-4	< 5	5	1
10335	cis-1,2-Dichloroethene	156-59-2	< 5	5	1
10335	trans-1,2-Dichloroethene	156-60-5	< 5	5	1
10335	1,2-Dichloropropane	78-87-5	< 5	5	1
10335	cis-1,3-Dichloropropene	10061-01-5	< 5	5	1
10335	trans-1,3-Dichloropropene	10061-02-6	< 5	5	1
10335	Ethyl t-butyl ether	637-92-3	< 5	5	1
10335	Ethylbenzene	100-41-4	< 5	5	1
10335	di-Isopropyl ether	108-20-3	< 5	5	1
10335	Isopropylbenzene	98-82-8	< 5	5	1
10335	p-Isopropyltoluene	99-87-6	< 5	5	1
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**21**	5	1
10335	Methylene Chloride	75-09-2	< 5	5	1
10335	Naphthalene	91-20-3	< 5	5	1
10335	n-Propylbenzene	103-65-1	< 5	5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	< 5	5	1
10335	Tetrachloroethene	127-18-4	< 5	5	1
10335	Toluene	108-88-3	< 5	5	1
10335	1,1,1-Trichloroethane	71-55-6	< 5	5	1
10335	1,1,2-Trichloroethane	79-00-5	< 5	5	1
10335	Trichloroethene	79-01-6	< 5	5	1
10335	Trichlorofluoromethane	75-69-4	< 5	5	1
10335	1,2,4-Trimethylbenzene	95-63-6	< 5	5	1
10335	1,3,5-Trimethylbenzene	108-67-8	< 5	5	1

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Analysis Report

Sample Description: MW-13 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7408336
LL Group # 1462394
Account # 12152

Project Name: Fairfax 26140

Collected: 03/24/2014 15:25 by TB

Submitted: 03/26/2014 17:20
Reported: 04/07/2014 19:23

Kleinfelder
1 Speen Street
Framingham MA 01701

FXP13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Vinyl Chloride	75-01-4	< 5	5	1
10335	Xylene (Total)	1330-20-7	< 5	5	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
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	W140901AA	04/01/2014 00:01	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W140901AA	04/01/2014 00:01	Sarah A Guill	1

Sample Description: MW-14 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7408337
LL Group # 1462394
Account # 12152

Project Name: Fairfax 26140

Collected: 03/24/2014 14:15 by TB

Submitted: 03/26/2014 17:20
Reported: 04/07/2014 19:23

Kleinfelder
1 Speen Street
Framingham MA 01701

FXP14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	< 20	20	1
10335	Acrolein	107-02-8	< 100	100	1
10335	Acrylonitrile	107-13-1	< 20	20	1
10335	t-Amyl methyl ether	994-05-8	< 5	5	1
10335	Benzene	71-43-2	< 5	5	1
10335	Bromodichloromethane	75-27-4	< 5	5	1
10335	Bromoform	75-25-2	< 5	5	1
10335	Bromomethane	74-83-9	< 5	5	1
10335	2-Butanone	78-93-3	< 10	10	1
10335	t-Butyl alcohol	75-65-0	< 80	80	1
10335	n-Butylbenzene	104-51-8	< 5	5	1
10335	sec-Butylbenzene	135-98-8	< 5	5	1
10335	Carbon Tetrachloride	56-23-5	< 5	5	1
10335	Chlorobenzene	108-90-7	< 5	5	1
10335	Chloroethane	75-00-3	< 5	5	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	< 10	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	< 5	5	1
10335	Chloromethane	74-87-3	< 5	5	1
10335	Dibromochloromethane	124-48-1	< 5	5	1
10335	1,2-Dichlorobenzene	95-50-1	< 5	5	1
10335	1,3-Dichlorobenzene	541-73-1	< 5	5	1
10335	1,4-Dichlorobenzene	106-46-7	< 5	5	1
10335	1,1-Dichloroethane	75-34-3	< 5	5	1
10335	1,2-Dichloroethane	107-06-2	< 5	5	1
10335	1,1-Dichloroethene	75-35-4	< 5	5	1
10335	cis-1,2-Dichloroethene	156-59-2	< 5	5	1
10335	trans-1,2-Dichloroethene	156-60-5	< 5	5	1
10335	1,2-Dichloropropane	78-87-5	< 5	5	1
10335	cis-1,3-Dichloropropene	10061-01-5	< 5	5	1
10335	trans-1,3-Dichloropropene	10061-02-6	< 5	5	1
10335	Ethyl t-butyl ether	637-92-3	< 5	5	1
10335	Ethylbenzene	100-41-4	< 5	5	1
10335	di-Isopropyl ether	108-20-3	< 5	5	1
10335	Isopropylbenzene	98-82-8	< 5	5	1
10335	p-Isopropyltoluene	99-87-6	< 5	5	1
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**14**	5	1
10335	Methylene Chloride	75-09-2	< 5	5	1
10335	Naphthalene	91-20-3	< 5	5	1
10335	n-Propylbenzene	103-65-1	< 5	5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	< 5	5	1
10335	Tetrachloroethene	127-18-4	< 5	5	1
10335	Toluene	108-88-3	< 5	5	1
10335	1,1,1-Trichloroethane	71-55-6	< 5	5	1
10335	1,1,2-Trichloroethane	79-00-5	< 5	5	1
10335	Trichloroethene	79-01-6	< 5	5	1
10335	Trichlorofluoromethane	75-69-4	< 5	5	1
10335	1,2,4-Trimethylbenzene	95-63-6	< 5	5	1
10335	1,3,5-Trimethylbenzene	108-67-8	< 5	5	1

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Analysis Report

Sample Description: MW-14 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7408337
LL Group # 1462394
Account # 12152

Project Name: Fairfax 26140

Collected: 03/24/2014 14:15 by TB

Submitted: 03/26/2014 17:20
Reported: 04/07/2014 19:23

Kleinfelder
1 Speen Street
Framingham MA 01701

FXP14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Vinyl Chloride	75-01-4	< 5	5	1
10335	Xylene (Total)	1330-20-7	< 5	5	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
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	W140901AA	04/01/2014 00:25	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W140901AA	04/01/2014 00:25	Sarah A Guill	1

Sample Description: MW-15 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7408338
LL Group # 1462394
Account # 12152

Project Name: Fairfax 26140

Collected: 03/25/2014 08:43 by TB

Submitted: 03/26/2014 17:20
Reported: 04/07/2014 19:23

Kleinfelder
1 Speen Street
Framingham MA 01701

FXP15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	< 20	20	1
10335	Acrolein	107-02-8	< 100	100	1
10335	Acrylonitrile	107-13-1	< 20	20	1
10335	**t-Amyl methyl ether**	994-05-8	**5**	5	1
10335	Benzene	71-43-2	< 5	5	1
10335	Bromodichloromethane	75-27-4	< 5	5	1
10335	Bromoform	75-25-2	< 5	5	1
10335	Bromomethane	74-83-9	< 5	5	1
10335	2-Butanone	78-93-3	< 10	10	1
10335	t-Butyl alcohol	75-65-0	< 80	80	1
10335	n-Butylbenzene	104-51-8	< 5	5	1
10335	sec-Butylbenzene	135-98-8	< 5	5	1
10335	Carbon Tetrachloride	56-23-5	< 5	5	1
10335	Chlorobenzene	108-90-7	< 5	5	1
10335	Chloroethane	75-00-3	< 5	5	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	< 10	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	< 5	5	1
10335	Chloromethane	74-87-3	< 5	5	1
10335	Dibromochloromethane	124-48-1	< 5	5	1
10335	1,2-Dichlorobenzene	95-50-1	< 5	5	1
10335	1,3-Dichlorobenzene	541-73-1	< 5	5	1
10335	1,4-Dichlorobenzene	106-46-7	< 5	5	1
10335	1,1-Dichloroethane	75-34-3	< 5	5	1
10335	1,2-Dichloroethane	107-06-2	< 5	5	1
10335	1,1-Dichloroethene	75-35-4	< 5	5	1
10335	cis-1,2-Dichloroethene	156-59-2	< 5	5	1
10335	trans-1,2-Dichloroethene	156-60-5	< 5	5	1
10335	1,2-Dichloropropane	78-87-5	< 5	5	1
10335	cis-1,3-Dichloropropene	10061-01-5	< 5	5	1
10335	trans-1,3-Dichloropropene	10061-02-6	< 5	5	1
10335	Ethyl t-butyl ether	637-92-3	< 5	5	1
10335	Ethylbenzene	100-41-4	< 5	5	1
10335	**di-Isopropyl ether**	108-20-3	**50**	5	1
10335	Isopropylbenzene	98-82-8	< 5	5	1
10335	p-Isopropyltoluene	99-87-6	< 5	5	1
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**350**	50	10
10335	Methylene Chloride	75-09-2	< 5	5	1
10335	Naphthalene	91-20-3	< 5	5	1
10335	n-Propylbenzene	103-65-1	< 5	5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	< 5	5	1
10335	Tetrachloroethene	127-18-4	< 5	5	1
10335	Toluene	108-88-3	< 5	5	1
10335	1,1,1-Trichloroethane	71-55-6	< 5	5	1
10335	1,1,2-Trichloroethane	79-00-5	< 5	5	1
10335	Trichloroethene	79-01-6	< 5	5	1
10335	Trichlorofluoromethane	75-69-4	< 5	5	1
10335	1,2,4-Trimethylbenzene	95-63-6	< 5	5	1
10335	1,3,5-Trimethylbenzene	108-67-8	< 5	5	1

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Analysis Report

Sample Description: MW-15 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7408338
LL Group # 1462394
Account # 12152

Project Name: Fairfax 26140

Collected: 03/25/2014 08:43 by TB

Submitted: 03/26/2014 17:20
Reported: 04/07/2014 19:23

Kleinfelder
1 Speen Street
Framingham MA 01701

FXP15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Vinyl Chloride	75-01-4	< 5	5	1
10335	Xylene (Total)	1330-20-7	< 5	5	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
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	W140901AA	04/01/2014 00:49	Sarah A Guill	1
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	W140901AA	04/01/2014 01:13	Sarah A Guill	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W140901AA	04/01/2014 00:49	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W140901AA	04/01/2014 01:13	Sarah A Guill	10

Sample Description: MW-16D Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7408339
LL Group # 1462394
Account # 12152

Project Name: Fairfax 26140

Collected: 03/25/2014 12:04 by TB

Submitted: 03/26/2014 17:20
Reported: 04/07/2014 19:23

Kleinfelder
1 Speen Street
Framingham MA 01701

FXP06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	< 500	500	25
10335	Acrolein	107-02-8	< 2,500	2,500	25
10335	Acrylonitrile	107-13-1	< 500	500	25
10335	**t-Amyl methyl ether**	994-05-8	**300**	25	25
10335	**Benzene**	71-43-2	**25**	25	25
10335	Bromodichloromethane	75-27-4	< 25	25	25
10335	Bromoform	75-25-2	< 100	100	25
10335	Bromomethane	74-83-9	< 25	25	25
10335	2-Butanone	78-93-3	< 250	250	25
10335	**t-Butyl alcohol**	75-65-0	**2,000**	500	25
10335	n-Butylbenzene	104-51-8	< 130	130	25
10335	sec-Butylbenzene	135-98-8	< 130	130	25
10335	Carbon Tetrachloride	56-23-5	< 25	25	25
10335	Chlorobenzene	108-90-7	< 25	25	25
10335	Chloroethane	75-00-3	< 25	25	25
10335	2-Chloroethyl Vinyl Ether	110-75-8	< 250	250	25
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	< 25	25	25
10335	Chloromethane	74-87-3	< 25	25	25
10335	Dibromochloromethane	124-48-1	< 25	25	25
10335	1,2-Dichlorobenzene	95-50-1	< 130	130	25
10335	1,3-Dichlorobenzene	541-73-1	< 130	130	25
10335	1,4-Dichlorobenzene	106-46-7	< 130	130	25
10335	1,1-Dichloroethane	75-34-3	< 25	25	25
10335	1,2-Dichloroethane	107-06-2	< 25	25	25
10335	1,1-Dichloroethene	75-35-4	< 25	25	25
10335	**cis-1,2-Dichloroethene**	156-59-2	**130**	25	25
10335	trans-1,2-Dichloroethene	156-60-5	< 25	25	25
10335	1,2-Dichloropropane	78-87-5	< 25	25	25
10335	cis-1,3-Dichloropropene	10061-01-5	< 25	25	25
10335	trans-1,3-Dichloropropene	10061-02-6	< 25	25	25
10335	Ethyl t-butyl ether	637-92-3	< 25	25	25
10335	Ethylbenzene	100-41-4	< 25	25	25
10335	**di-Isopropyl ether**	108-20-3	**520**	25	25
10335	Isopropylbenzene	98-82-8	< 130	130	25
10335	p-Isopropyltoluene	99-87-6	< 130	130	25
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**14,000**	50	50
10335	Methylene Chloride	75-09-2	< 75	75	25
10335	Naphthalene	91-20-3	< 130	130	25
10335	n-Propylbenzene	103-65-1	< 130	130	25
10335	1,1,2,2-Tetrachloroethane	79-34-5	< 25	25	25
10335	Tetrachloroethene	127-18-4	< 25	25	25
10335	Toluene	108-88-3	< 25	25	25
10335	1,1,1-Trichloroethane	71-55-6	< 25	25	25
10335	1,1,2-Trichloroethane	79-00-5	< 25	25	25
10335	Trichloroethene	79-01-6	< 25	25	25
10335	Trichlorofluoromethane	75-69-4	< 25	25	25
10335	1,2,4-Trimethylbenzene	95-63-6	< 130	130	25

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Analysis Report

Sample Description: MW-16D Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7408339
LL Group # 1462394
Account # 12152

Project Name: Fairfax 26140

Collected: 03/25/2014 12:04 by TB

Submitted: 03/26/2014 17:20
Reported: 04/07/2014 19:23

Kleinfelder
1 Speen Street
Framingham MA 01701

FXP06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	1,3,5-Trimethylbenzene	108-67-8	< 130	130	25
10335	Vinyl Chloride	75-01-4	< 25	25	25
10335	Xylene (Total)	1330-20-7	< 25	25	25

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
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	W140901AA	04/01/2014 01:36	Sarah A Guill	50
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	W140931AA	04/03/2014 19:43	Angela D Sneeringer	25
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W140901AA	04/01/2014 01:36	Sarah A Guill	50
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W140931AA	04/03/2014 19:43	Angela D Sneeringer	25

Sample Description: PW-1 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7408340
LL Group # 1462394
Account # 12152

Project Name: Fairfax 26140

Collected: 03/25/2014 10:22 by TB

Submitted: 03/26/2014 17:20
Reported: 04/07/2014 19:23

Kleinfelder
1 Speen Street
Framingham MA 01701

FXPP1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	< 200	200	10
10335	Acrolein	107-02-8	< 1,000	1,000	10
10335	Acrylonitrile	107-13-1	< 200	200	10
10335	**t-Amyl methyl ether**	994-05-8	**180**	10	10
10335	Benzene	71-43-2	< 10	10	10
10335	Bromodichloromethane	75-27-4	< 10	10	10
10335	Bromoform	75-25-2	< 40	40	10
10335	Bromomethane	74-83-9	< 10	10	10
10335	2-Butanone	78-93-3	< 100	100	10
10335	**t-Butyl alcohol**	75-65-0	**1,000**	200	10
10335	n-Butylbenzene	104-51-8	< 50	50	10
10335	sec-Butylbenzene	135-98-8	< 50	50	10
10335	Carbon Tetrachloride	56-23-5	< 10	10	10
10335	Chlorobenzene	108-90-7	< 10	10	10
10335	Chloroethane	75-00-3	< 10	10	10
10335	2-Chloroethyl Vinyl Ether	110-75-8	< 100	100	10
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	< 10	10	10
10335	Chloromethane	74-87-3	< 10	10	10
10335	Dibromochloromethane	124-48-1	< 10	10	10
10335	1,2-Dichlorobenzene	95-50-1	< 50	50	10
10335	1,3-Dichlorobenzene	541-73-1	< 50	50	10
10335	1,4-Dichlorobenzene	106-46-7	< 50	50	10
10335	1,1-Dichloroethane	75-34-3	< 10	10	10
10335	1,2-Dichloroethane	107-06-2	< 10	10	10
10335	1,1-Dichloroethene	75-35-4	< 10	10	10
10335	**cis-1,2-Dichloroethene**	156-59-2	**63**	10	10
10335	trans-1,2-Dichloroethene	156-60-5	< 10	10	10
10335	1,2-Dichloropropane	78-87-5	< 10	10	10
10335	cis-1,3-Dichloropropene	10061-01-5	< 10	10	10
10335	trans-1,3-Dichloropropene	10061-02-6	< 10	10	10
10335	Ethyl t-butyl ether	637-92-3	< 10	10	10
10335	Ethylbenzene	100-41-4	< 10	10	10
10335	**di-Isopropyl ether**	108-20-3	**290**	10	10
10335	Isopropylbenzene	98-82-8	< 50	50	10
10335	p-Isopropyltoluene	99-87-6	< 50	50	10
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**6,900**	100	100
10335	Methylene Chloride	75-09-2	< 30	30	10
10335	Naphthalene	91-20-3	< 50	50	10
10335	n-Propylbenzene	103-65-1	< 50	50	10
10335	1,1,2,2-Tetrachloroethane	79-34-5	< 10	10	10
10335	Tetrachloroethene	127-18-4	< 10	10	10
10335	Toluene	108-88-3	< 10	10	10
10335	1,1,1-Trichloroethane	71-55-6	< 10	10	10
10335	1,1,2-Trichloroethane	79-00-5	< 10	10	10
10335	Trichloroethene	79-01-6	< 10	10	10
10335	Trichlorofluoromethane	75-69-4	< 10	10	10
10335	1,2,4-Trimethylbenzene	95-63-6	< 50	50	10

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Analysis Report

Sample Description: PW-1 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7408340
LL Group # 1462394
Account # 12152

Project Name: Fairfax 26140

Collected: 03/25/2014 10:22 by TB

Submitted: 03/26/2014 17:20
Reported: 04/07/2014 19:23

Kleinfelder
1 Speen Street
Framingham MA 01701

FXPP1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	1,3,5-Trimethylbenzene	108-67-8	< 50	50	10
10335	Vinyl Chloride	75-01-4	< 10	10	10
10335	Xylene (Total)	1330-20-7	< 10	10	10

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
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	W140911AA	04/01/2014 22:42	Sarah A Guill	10
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	W140911AA	04/01/2014 23:06	Sarah A Guill	100
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W140911AA	04/01/2014 22:42	Sarah A Guill	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W140911AA	04/01/2014 23:06	Sarah A Guill	100

Sample Description: SVE-2 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7408341
LL Group # 1462394
Account # 12152

Project Name: Fairfax 26140

Collected: 03/25/2014 09:22 by TB

Submitted: 03/26/2014 17:20
Reported: 04/07/2014 19:23

Kleinfelder
1 Speen Street
Framingham MA 01701

FXPS1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	< 20	20	1
10335	Acrolein	107-02-8	< 100	100	1
10335	Acrylonitrile	107-13-1	< 20	20	1
10335	**t-Amyl methyl ether**	994-05-8	**11**	1	1
10335	Benzene	71-43-2	< 1	1	1
10335	Bromodichloromethane	75-27-4	< 1	1	1
10335	Bromoform	75-25-2	< 4	4	1
10335	Bromomethane	74-83-9	< 1	1	1
10335	2-Butanone	78-93-3	< 10	10	1
10335	**t-Butyl alcohol**	75-65-0	**76**	20	1
10335	n-Butylbenzene	104-51-8	< 5	5	1
10335	sec-Butylbenzene	135-98-8	< 5	5	1
10335	Carbon Tetrachloride	56-23-5	< 1	1	1
10335	Chlorobenzene	108-90-7	< 1	1	1
10335	Chloroethane	75-00-3	< 1	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	< 10	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	< 1	1	1
10335	Chloromethane	74-87-3	< 1	1	1
10335	Dibromochloromethane	124-48-1	< 1	1	1
10335	1,2-Dichlorobenzene	95-50-1	< 5	5	1
10335	1,3-Dichlorobenzene	541-73-1	< 5	5	1
10335	1,4-Dichlorobenzene	106-46-7	< 5	5	1
10335	1,1-Dichloroethane	75-34-3	< 1	1	1
10335	1,2-Dichloroethane	107-06-2	< 1	1	1
10335	1,1-Dichloroethene	75-35-4	< 1	1	1
10335	cis-1,2-Dichloroethene	156-59-2	< 1	1	1
10335	trans-1,2-Dichloroethene	156-60-5	< 1	1	1
10335	1,2-Dichloropropane	78-87-5	< 1	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	< 1	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	< 1	1	1
10335	Ethyl t-butyl ether	637-92-3	< 1	1	1
10335	Ethylbenzene	100-41-4	< 1	1	1
10335	**di-Isopropyl ether**	108-20-3	**44**	1	1
10335	Isopropylbenzene	98-82-8	< 5	5	1
10335	p-Isopropyltoluene	99-87-6	< 5	5	1
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**600**	10	10
10335	Methylene Chloride	75-09-2	< 3	3	1
10335	Naphthalene	91-20-3	< 5	5	1
10335	n-Propylbenzene	103-65-1	< 5	5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	< 1	1	1
10335	Tetrachloroethene	127-18-4	< 1	1	1
10335	Toluene	108-88-3	< 1	1	1
10335	1,1,1-Trichloroethane	71-55-6	< 1	1	1
10335	1,1,2-Trichloroethane	79-00-5	< 1	1	1
10335	Trichloroethene	79-01-6	< 1	1	1
10335	Trichlorofluoromethane	75-69-4	< 1	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	< 5	5	1

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Analysis Report

Sample Description: SVE-2 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7408341
LL Group # 1462394
Account # 12152

Project Name: Fairfax 26140

Collected: 03/25/2014 09:22 by TB

Submitted: 03/26/2014 17:20
Reported: 04/07/2014 19:23

Kleinfelder
1 Speen Street
Framingham MA 01701

FXPS1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	1,3,5-Trimethylbenzene	108-67-8	< 5	5	1
10335	Vinyl Chloride	75-01-4	< 1	1	1
10335	Xylene (Total)	1330-20-7	< 1	1	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
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	W140911AA	04/01/2014 23:30	Sarah A Guill	1
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	W140911AA	04/01/2014 23:54	Sarah A Guill	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W140911AA	04/01/2014 23:30	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W140911AA	04/01/2014 23:54	Sarah A Guill	10

Sample Description: Trip Blank Water
Fairfax Petroleum 26140

LL Sample # WW 7408342
LL Group # 1462394
Account # 12152

Project Name: Fairfax 26140

Collected: 03/20/2014

Submitted: 03/26/2014 17:20
Reported: 04/07/2014 19:23

Kleinfelder
1 Speen Street
Framingham MA 01701

FXPTB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	< 20	20	1
10335	Acrolein	107-02-8	< 100	100	1
10335	Acrylonitrile	107-13-1	< 20	20	1
10335	t-Amyl methyl ether	994-05-8	< 5	5	1
10335	Benzene	71-43-2	< 5	5	1
10335	Bromodichloromethane	75-27-4	< 5	5	1
10335	Bromoform	75-25-2	< 5	5	1
10335	Bromomethane	74-83-9	< 5	5	1
10335	2-Butanone	78-93-3	< 10	10	1
10335	t-Butyl alcohol	75-65-0	< 80	80	1
10335	n-Butylbenzene	104-51-8	< 5	5	1
10335	sec-Butylbenzene	135-98-8	< 5	5	1
10335	Carbon Tetrachloride	56-23-5	< 5	5	1
10335	Chlorobenzene	108-90-7	< 5	5	1
10335	Chloroethane	75-00-3	< 5	5	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	< 10	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	< 5	5	1
10335	Chloromethane	74-87-3	< 5	5	1
10335	Dibromochloromethane	124-48-1	< 5	5	1
10335	1,2-Dichlorobenzene	95-50-1	< 5	5	1
10335	1,3-Dichlorobenzene	541-73-1	< 5	5	1
10335	1,4-Dichlorobenzene	106-46-7	< 5	5	1
10335	1,1-Dichloroethane	75-34-3	< 5	5	1
10335	1,2-Dichloroethane	107-06-2	< 5	5	1
10335	1,1-Dichloroethene	75-35-4	< 5	5	1
10335	cis-1,2-Dichloroethene	156-59-2	< 5	5	1
10335	trans-1,2-Dichloroethene	156-60-5	< 5	5	1
10335	1,2-Dichloropropane	78-87-5	< 5	5	1
10335	cis-1,3-Dichloropropene	10061-01-5	< 5	5	1
10335	trans-1,3-Dichloropropene	10061-02-6	< 5	5	1
10335	Ethyl t-butyl ether	637-92-3	< 5	5	1
10335	Ethylbenzene	100-41-4	< 5	5	1
10335	di-Isopropyl ether	108-20-3	< 5	5	1
10335	Isopropylbenzene	98-82-8	< 5	5	1
10335	p-Isopropyltoluene	99-87-6	< 5	5	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	< 5	5	1
10335	Methylene Chloride	75-09-2	< 5	5	1
10335	Naphthalene	91-20-3	< 5	5	1
10335	n-Propylbenzene	103-65-1	< 5	5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	< 5	5	1
10335	Tetrachloroethene	127-18-4	< 5	5	1
10335	Toluene	108-88-3	< 5	5	1
10335	1,1,1-Trichloroethane	71-55-6	< 5	5	1
10335	1,1,2-Trichloroethane	79-00-5	< 5	5	1
10335	Trichloroethene	79-01-6	< 5	5	1
10335	Trichlorofluoromethane	75-69-4	< 5	5	1
10335	1,2,4-Trimethylbenzene	95-63-6	< 5	5	1
10335	1,3,5-Trimethylbenzene	108-67-8	< 5	5	1
10335	Vinyl Chloride	75-01-4	< 5	5	1

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Analysis Report

Sample Description: Trip Blank Water
Fairfax Petroleum 26140

LL Sample # WW 7408342
LL Group # 1462394
Account # 12152

Project Name: Fairfax 26140

Collected: 03/20/2014

Submitted: 03/26/2014 17:20
Reported: 04/07/2014 19:23

Kleinfelder
1 Speen Street
Framingham MA 01701

FXPTB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Xylene (Total)	1330-20-7	< 5	5	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
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	W140901AA	03/31/2014 20:27	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W140901AA	03/31/2014 20:27	Sarah A Guill	1

Quality Control Summary

Client Name: Kleinfelder Group Number: 1462394
Reported: 04/07/14 at 07:23 PM

Matrix QC may not be reported if insufficient sample or 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.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: W140901AA	Sample number(s): 7408332-7408339,7408342							
Acetone	< 20	20.	ug/l	89	87	43-149	2	30
Acrolein	< 100	100.	ug/l	89	92	52-129	4	30
Acrylonitrile	< 20	20.	ug/l	82	82	62-120	0	30
t-Amyl methyl ether	< 5	5.	ug/l	95	97	75-120	2	30
Benzene	< 5	5.	ug/l	94	95	78-120	1	30
Bromodichloromethane	< 5	5.	ug/l	93	95	73-120	1	30
Bromoform	< 5	5.	ug/l	90	90	61-120	0	30
Bromomethane	< 5	5.	ug/l	105	108	58-120	3	30
2-Butanone	< 10	10.	ug/l	87	88	54-133	1	30
t-Butyl alcohol	< 80	80.	ug/l	108	109	75-120	1	30
n-Butylbenzene	< 5	5.	ug/l	89	87	68-120	2	30
sec-Butylbenzene	< 5	5.	ug/l	92	90	80-120	2	30
Carbon Tetrachloride	< 5	5.	ug/l	93	94	74-130	1	30
Chlorobenzene	< 5	5.	ug/l	98	103	80-120	5	30
Chloroethane	< 5	5.	ug/l	95	97	56-120	2	30
2-Chloroethyl Vinyl Ether	< 10	10.	ug/l	93	94	54-126	1	30
Chloroform	< 5	5.	ug/l	100	101	80-122	0	30
Chloromethane	< 5	5.	ug/l	88	85	63-120	4	30
Dibromochloromethane	< 5	5.	ug/l	96	97	72-120	1	30
1,2-Dichlorobenzene	< 5	5.	ug/l	100	98	80-120	2	30
1,3-Dichlorobenzene	< 5	5.	ug/l	97	98	80-120	0	30
1,4-Dichlorobenzene	< 5	5.	ug/l	96	98	80-120	2	30
1,1-Dichloroethane	< 5	5.	ug/l	91	92	80-120	1	30
1,2-Dichloroethane	< 5	5.	ug/l	99	101	65-135	2	30
1,1-Dichloroethene	< 5	5.	ug/l	101	102	76-124	1	30
cis-1,2-Dichloroethene	< 5	5.	ug/l	97	100	80-120	3	30
trans-1,2-Dichloroethene	< 5	5.	ug/l	102	101	80-120	1	30
1,2-Dichloropropane	< 5	5.	ug/l	91	93	80-120	1	30
cis-1,3-Dichloropropene	< 5	5.	ug/l	95	97	80-120	1	30
trans-1,3-Dichloropropene	< 5	5.	ug/l	91	94	76-120	3	30
Ethyl t-butyl ether	< 5	5.	ug/l	92	94	74-120	2	30
Ethylbenzene	< 5	5.	ug/l	94	96	79-120	2	30
di-Isopropyl ether	< 5	5.	ug/l	86	88	65-120	2	30
Isopropylbenzene	< 5	5.	ug/l	97	99	77-120	1	30
p-Isopropyltoluene	< 5	5.	ug/l	92	92	80-120	1	30
Methyl Tertiary Butyl Ether	< 5	5.	ug/l	95	99	75-120	4	30
Methylene Chloride	< 5	5.	ug/l	97	98	80-120	1	30
Naphthalene	< 5	5.	ug/l	94	95	47-126	2	30
n-Propylbenzene	< 5	5.	ug/l	92	91	80-120	0	30
1,1,2,2-Tetrachloroethane	< 5	5.	ug/l	97	96	70-120	1	30
Tetrachloroethene	< 5	5.	ug/l	102	100	80-120	2	30
Toluene	< 5	5.	ug/l	93	95	80-120	2	30
1,1,1-Trichloroethane	< 5	5.	ug/l	85	86	66-126	1	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: 1462394
Reported: 04/07/14 at 07:23 PM

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,1,2-Trichloroethane	< 5	5.	ug/l	99	100	80-120	1	30
Trichloroethene	< 5	5.	ug/l	98	100	80-120	1	30
Trichlorofluoromethane	< 5	5.	ug/l	94	93	65-130	1	30
1,2,4-Trimethylbenzene	< 5	5.	ug/l	94	93	74-120	1	30
1,3,5-Trimethylbenzene	< 5	5.	ug/l	94	93	74-120	0	30
Vinyl Chloride	< 5	5.	ug/l	92	94	63-120	2	30
Xylene (Total)	< 5	5.	ug/l	99	100	80-120	1	30
Batch number: W140911AA	Sample number(s): 7408340-7408341							
Acetone	< 20	20.	ug/l	88		43-149		
Acrolein	< 100	100.	ug/l	93		52-129		
Acrylonitrile	< 20	20.	ug/l	84		62-120		
t-Amyl methyl ether	< 1	1.	ug/l	97		75-120		
Benzene	< 1	1.	ug/l	96		78-120		
Bromodichloromethane	< 1	1.	ug/l	94		73-120		
Bromoform	< 4	4.	ug/l	91		61-120		
Bromomethane	< 1	1.	ug/l	106		58-120		
2-Butanone	< 10	10.	ug/l	88		54-133		
t-Butyl alcohol	< 20	20.	ug/l	108		75-120		
n-Butylbenzene	< 5	5.	ug/l	89		68-120		
sec-Butylbenzene	< 5	5.	ug/l	95		80-120		
Carbon Tetrachloride	< 1	1.	ug/l	96		74-130		
Chlorobenzene	< 1	1.	ug/l	103		80-120		
Chloroethane	< 1	1.	ug/l	96		56-120		
2-Chloroethyl Vinyl Ether	< 10	10.	ug/l	96		54-126		
Chloroform	< 1	1.	ug/l	101		80-122		
Chloromethane	< 1	1.	ug/l	91		63-120		
Dibromochloromethane	< 1	1.	ug/l	99		72-120		
1,2-Dichlorobenzene	< 5	5.	ug/l	102		80-120		
1,3-Dichlorobenzene	< 5	5.	ug/l	101		80-120		
1,4-Dichlorobenzene	< 5	5.	ug/l	100		80-120		
1,1-Dichloroethane	< 1	1.	ug/l	91		80-120		
1,2-Dichloroethane	< 1	1.	ug/l	100		65-135		
1,1-Dichloroethene	< 1	1.	ug/l	103		76-124		
cis-1,2-Dichloroethene	< 1	1.	ug/l	101		80-120		
trans-1,2-Dichloroethene	< 1	1.	ug/l	103		80-120		
1,2-Dichloropropane	< 1	1.	ug/l	93		80-120		
cis-1,3-Dichloropropene	< 1	1.	ug/l	97		80-120		
trans-1,3-Dichloropropene	< 1	1.	ug/l	93		76-120		
Ethyl t-butyl ether	< 1	1.	ug/l	94		74-120		
Ethylbenzene	< 1	1.	ug/l	97		79-120		
di-Isopropyl ether	< 1	1.	ug/l	89		65-120		
Isopropylbenzene	< 5	5.	ug/l	99		77-120		
p-Isopropyltoluene	< 5	5.	ug/l	94		80-120		
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	99		75-120		
Methylene Chloride	< 3	3.	ug/l	98		80-120		
Naphthalene	< 5	5.	ug/l	96		47-126		
n-Propylbenzene	< 5	5.	ug/l	94		80-120		
1,1,2,2-Tetrachloroethane	< 1	1.	ug/l	98		70-120		
Tetrachloroethene	< 1	1.	ug/l	100		80-120		
Toluene	< 1	1.	ug/l	95		80-120		
1,1,1-Trichloroethane	< 1	1.	ug/l	88		66-126		
1,1,2-Trichloroethane	< 1	1.	ug/l	102		80-120		
Trichloroethene	< 1	1.	ug/l	101		80-120		
Trichlorofluoromethane	< 1	1.	ug/l	96		65-130		
1,2,4-Trimethylbenzene	< 5	5.	ug/l	98		74-120		

*- 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: 1462394
Reported: 04/07/14 at 07:23 PM

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,3,5-Trimethylbenzene	< 5	5.	ug/l	95		74-120		
Vinyl Chloride	< 1	1.	ug/l	96		63-120		
Xylene (Total)	< 1	1.	ug/l	101		80-120		
Batch number: W140931AA	Sample number(s): 7408339							
Acetone	< 20	20.	ug/l	102	104	43-149	2	30
Acrolein	< 100	100.	ug/l	95	93	52-129	2	30
Acrylonitrile	< 20	20.	ug/l	86	83	62-120	3	30
t-Amyl methyl ether	< 1	1.	ug/l	99	99	75-120	0	30
Benzene	< 1	1.	ug/l	100	97	78-120	3	30
Bromodichloromethane	< 1	1.	ug/l	99	97	73-120	3	30
Bromoform	< 4	4.	ug/l	93	91	61-120	2	30
Bromomethane	< 1	1.	ug/l	118	111	58-120	6	30
2-Butanone	< 10	10.	ug/l	95	94	54-133	1	30
t-Butyl alcohol	< 20	20.	ug/l	113	107	75-120	5	30
n-Butylbenzene	< 5	5.	ug/l	89	85	68-120	4	30
sec-Butylbenzene	< 5	5.	ug/l	94	90	80-120	5	30
Carbon Tetrachloride	< 1	1.	ug/l	107	103	74-130	4	30
Chlorobenzene	< 1	1.	ug/l	106	102	80-120	4	30
Chloroethane	< 1	1.	ug/l	106	97	56-120	9	30
2-Chloroethyl Vinyl Ether	< 10	10.	ug/l	93	94	54-126	1	30
Chloroform	< 1	1.	ug/l	109	105	80-122	4	30
Chloromethane	< 1	1.	ug/l	92	89	63-120	3	30
Dibromochloromethane	< 1	1.	ug/l	102	100	72-120	2	30
1,2-Dichlorobenzene	< 5	5.	ug/l	104	101	80-120	4	30
1,3-Dichlorobenzene	< 5	5.	ug/l	103	99	80-120	4	30
1,4-Dichlorobenzene	< 5	5.	ug/l	102	99	80-120	3	30
1,1-Dichloroethane	< 1	1.	ug/l	97	92	80-120	5	30
1,2-Dichloroethane	< 1	1.	ug/l	110	106	65-135	4	30
1,1-Dichloroethene	< 1	1.	ug/l	113	103	76-124	9	30
cis-1,2-Dichloroethene	< 1	1.	ug/l	107	102	80-120	5	30
trans-1,2-Dichloroethene	< 1	1.	ug/l	108	104	80-120	4	30
1,2-Dichloropropane	< 1	1.	ug/l	95	93	80-120	2	30
cis-1,3-Dichloropropene	< 1	1.	ug/l	102	97	80-120	5	30
trans-1,3-Dichloropropene	< 1	1.	ug/l	94	93	76-120	2	30
Ethyl t-butyl ether	< 1	1.	ug/l	96	94	74-120	2	30
Ethylbenzene	< 1	1.	ug/l	98	96	79-120	2	30
di-Isopropyl ether	< 1	1.	ug/l	88	86	65-120	2	30
Isopropylbenzene	< 5	5.	ug/l	103	99	77-120	4	30
p-Isopropyltoluene	< 5	5.	ug/l	94	90	80-120	4	30
Methylene Chloride	< 3	3.	ug/l	101	99	80-120	2	30
Naphthalene	< 5	5.	ug/l	95	94	47-126	1	30
n-Propylbenzene	< 5	5.	ug/l	95	90	80-120	6	30
1,1,2,2-Tetrachloroethane	< 1	1.	ug/l	99	95	70-120	3	30
Tetrachloroethene	< 1	1.	ug/l	108	104	80-120	4	30
Toluene	< 1	1.	ug/l	97	94	80-120	3	30
1,1,1-Trichloroethane	< 1	1.	ug/l	95	92	66-126	4	30
1,1,2-Trichloroethane	< 1	1.	ug/l	101	100	80-120	1	30
Trichloroethene	< 1	1.	ug/l	106	100	80-120	5	30
Trichlorofluoromethane	< 1	1.	ug/l	115	105	65-130	9	30
1,2,4-Trimethylbenzene	< 5	5.	ug/l	98	93	74-120	5	30
1,3,5-Trimethylbenzene	< 5	5.	ug/l	97	93	74-120	4	30
Vinyl Chloride	< 1	1.	ug/l	103	97	63-120	6	30
Xylene (Total)	< 1	1.	ug/l	102	101	80-120	1	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
Reported: 04/07/14 at 07:23 PM

Group Number: 1462394

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: W140911AA	Sample number(s): 7408340-7408341 UNSPK: P411778								
Acetone	92	91	35-144	1	30				
Acrolein	93	89	39-136	5	30				
Acrylonitrile	86	86	51-125	0	30				
t-Amyl methyl ether	103	102	65-117	1	30				
Benzene	106	106	72-134	0	30				
Bromodichloromethane	100	103	73-125	2	30				
Bromoform	95	94	48-118	1	30				
Bromomethane	122	119	47-129	2	30				
2-Butanone	87	89	44-135	2	30				
t-Butyl alcohol	112	108	67-119	3	30				
n-Butylbenzene	99	99	74-134	1	30				
sec-Butylbenzene	105	105	74-137	0	30				
Carbon Tetrachloride	115	112	75-148	3	30				
Chlorobenzene	111	110	87-124	1	30				
Chloroethane	111	110	55-130	1	30				
2-Chloroethyl Vinyl Ether	0*	0*	10-151	0	30				
Chloroform	113	112	81-134	0	30				
Chloromethane	100	101	61-125	1	30				
Dibromochloromethane	104	102	74-116	2	30				
1,2-Dichlorobenzene	107	106	84-119	1	30				
1,3-Dichlorobenzene	106	107	86-121	0	30				
1,4-Dichlorobenzene	107	106	85-121	1	30				
1,1-Dichloroethane	102	101	84-129	2	30				
1,2-Dichloroethane	109	106	63-142	2	30				
1,1-Dichloroethene	120	116	79-137	4	30				
cis-1,2-Dichloroethene	110	109	80-141	1	30				
trans-1,2-Dichloroethene	116	114	86-131	2	30				
1,2-Dichloropropane	99	100	83-124	1	30				
cis-1,3-Dichloropropene	102	102	70-116	1	30				
trans-1,3-Dichloropropene	94	95	74-119	1	30				
Ethyl t-butyl ether	102	98	74-122	3	30				
Ethylbenzene	106	104	71-134	1	30				
di-Isopropyl ether	94	93	70-129	1	30				
Isopropylbenzene	110	109	75-128	1	30				
p-Isopropyltoluene	104	105	76-123	1	30				
Methyl Tertiary Butyl Ether	103	104	72-126	0	30				
Methylene Chloride	107	105	78-133	2	30				
Naphthalene	99	100	52-125	1	30				
n-Propylbenzene	102	103	74-134	1	30				
1,1,2,2-Tetrachloroethane	101	101	72-128	0	30				
Tetrachloroethene	114	115	80-128	1	30				
Toluene	103	102	80-125	1	30				
1,1,1-Trichloroethane	102	101	69-140	1	30				
1,1,2-Trichloroethane	105	105	71-141	0	30				
Trichloroethene	114	113	88-133	1	30				
Trichlorofluoromethane	123	122	63-163	1	30				
1,2,4-Trimethylbenzene	104	103	72-130	1	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: 1462394
Reported: 04/07/14 at 07:23 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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,3,5-Trimethylbenzene	104	104	65-132	1	30				
Vinyl Chloride	113	112	66-133	1	30				
Xylene (Total)	110	109	79-125	1	30				

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: 8260 VOCs
Batch number: W140901AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7408332	100	102	96	92
7408333	101	101	96	92
7408334	102	105	96	92
7408335	100	102	96	92
7408336	102	102	95	93
7408337	102	103	97	92
7408338	99	101	96	91
7408342	100	103	97	93
Blank	100	102	97	93
LCS	101	103	98	95
LCSD	101	101	98	96
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 8260 VOCs
Batch number: W140911AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7408340	100	103	96	93
7408341	99	101	96	93
Blank	102	104	96	92
LCS	101	99	99	96
MS	102	103	98	96
MSD	101	102	98	96
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 8260 VOCs
Batch number: W140931AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7408339	100	102	96	91
Blank	104	109	95	91
LCS	105	103	99	96
LCSD	104	105	99	96

*- 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: 04/07/14 at 07:23 PM

Group Number: 1462394

Surrogate Quality Control

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

*- 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.

Lancaster Laboratories

Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 12152
Group #: 1462394 Sample #: 647408332-42
Q14 3/26/14

(1)

Client:	Fairfax Petroleum	Acct. #:	
Project Name/#:	26140 Great Falls, VA	PWSID #:	
Project Manager:	Mark C. Steele	P.O. #:	51141-293031
Sampler:	Tim Boswell	Quote #:	
Name of State where samples were collected:	Virginia		

For Lab Use Only
FSC:
SCR#:

Preservation Codes
H=HCl T=Thiosulfate
N=HNO3 B=NaOH
S=H2SO4 O=Other

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Potable	Matrix: NPDES	Matrix: Water	Matrix: Other	Total # of Containers	Full List VOCs, Including Oxygenates (8260B)									Remarks	Temperature of samples upon receipt (if requested)
											Preservation Codes: H										
MW-1	3/25/14	1328	X					X		3	X										
MW-2	3/25/14	1119	X					X		3	X										
[redacted]																					
[redacted]																					
MW-9	3/24/14	1345	X					X		3	X										
MW-11	3/24/14	1457	X					X		3	X										
MW-13	3/24/14	1525	X					X		3	X										
MW-14	3/24/14	1415	X					X		3	X										
MW-15	3/25/14	0843	X					X		3	X										
MW-16D	3/25/14	1204	X					X		3	X										
PW-1	3/25/14	1022	X					X		3	X										
SVE-2	3/25/14	0922	X					X		3	X										
Trip Blank	3/20/14		X					X		2	X										

Cooler

(2)

Turnaround Time Requested (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax E-mail
Phone #: Fax #:
E-mail address:

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	3/25/14	1530	Cooler room	3/25/14	1530
Cooler Room	3/26/14	17:00	[signature]	3/26/14	17:00
[signature]	3/26/14 17:00	17:00			

Data Package Options (please circle if required)
Type I (validation/NJ reg) TX-TRRP-13
Type II (Tier II) MA MCP CT RCP
Type III (Reduced NJ)
Type IV (CLP SOW)
Type VI (Raw Data Only)

SDG Complete? Yes No

State-specific QC (MS/MSD/Dup)? Yes No
(If yes, indicated QC sample and submit triplicate volume)
Internal COC required? Yes No

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

1 of 1

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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)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

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 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.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥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.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Kleinfelder
1 Speen Street
Framingham MA 01701

April 04, 2014

Project: Fairfax 26140

Submittal Date: 03/26/2014
Group Number: 1462395
PO Number: 51141-293031
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
GFGPMW-4 Grab Water	7408343

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

ELECTRONIC COPY TO	Kleinfelder	Attn: Mark Steele
ELECTRONIC COPY TO	Kleinfelder	Attn: Angela Vogt
ELECTRONIC COPY TO	Kleinfelder	Attn: Venelda Williams
ELECTRONIC COPY TO	Kleinfelder	Attn: Charlie Low
ELECTRONIC COPY TO	Kleinfelder	Attn: Paxton Wertz

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

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Analysis Report

Sample Description: GFGPMW-4 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7408343
LL Group # 1462395
Account # 12152

Project Name: Fairfax 26140

Collected: 03/24/2014 14:00 by CL

Submitted: 03/26/2014 17:20
Reported: 04/04/2014 13:53

Kleinfelder
1 Speen Street
Framingham MA 01701

GFGPM

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	< 20	20	1
10335	Acrolein	107-02-8	< 100	100	1
10335	Acrylonitrile	107-13-1	< 20	20	1
10335	t-Amyl methyl ether	994-05-8	< 5	5	1
10335	Benzene	71-43-2	< 5	5	1
10335	Bromodichloromethane	75-27-4	< 5	5	1
10335	Bromoform	75-25-2	< 5	5	1
10335	Bromomethane	74-83-9	< 5	5	1
10335	2-Butanone	78-93-3	< 10	10	1
10335	t-Butyl alcohol	75-65-0	< 80	80	1
10335	n-Butylbenzene	104-51-8	< 5	5	1
10335	sec-Butylbenzene	135-98-8	< 5	5	1
10335	Carbon Tetrachloride	56-23-5	< 5	5	1
10335	Chlorobenzene	108-90-7	< 5	5	1
10335	Chloroethane	75-00-3	< 5	5	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	< 10	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	< 5	5	1
10335	Chloromethane	74-87-3	< 5	5	1
10335	Dibromochloromethane	124-48-1	< 5	5	1
10335	1,2-Dichlorobenzene	95-50-1	< 5	5	1
10335	1,3-Dichlorobenzene	541-73-1	< 5	5	1
10335	1,4-Dichlorobenzene	106-46-7	< 5	5	1
10335	1,1-Dichloroethane	75-34-3	< 5	5	1
10335	1,2-Dichloroethane	107-06-2	< 5	5	1
10335	1,1-Dichloroethene	75-35-4	< 5	5	1
10335	cis-1,2-Dichloroethene	156-59-2	< 5	5	1
10335	trans-1,2-Dichloroethene	156-60-5	< 5	5	1
10335	1,2-Dichloropropane	78-87-5	< 5	5	1
10335	cis-1,3-Dichloropropene	10061-01-5	< 5	5	1
10335	trans-1,3-Dichloropropene	10061-02-6	< 5	5	1
10335	Ethyl t-butyl ether	637-92-3	< 5	5	1
10335	Ethylbenzene	100-41-4	< 5	5	1
10335	di-Isopropyl ether	108-20-3	< 5	5	1
10335	Isopropylbenzene	98-82-8	< 5	5	1
10335	p-Isopropyltoluene	99-87-6	< 5	5	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	< 5	5	1
10335	Methylene Chloride	75-09-2	< 5	5	1
10335	Naphthalene	91-20-3	< 5	5	1
10335	n-Propylbenzene	103-65-1	< 5	5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	< 5	5	1
10335	Tetrachloroethene	127-18-4	< 5	5	1
10335	Toluene	108-88-3	< 5	5	1
10335	1,1,1-Trichloroethane	71-55-6	< 5	5	1
10335	1,1,2-Trichloroethane	79-00-5	< 5	5	1
10335	Trichloroethene	79-01-6	< 5	5	1
10335	Trichlorofluoromethane	75-69-4	< 5	5	1
10335	1,2,4-Trimethylbenzene	95-63-6	< 5	5	1
10335	1,3,5-Trimethylbenzene	108-67-8	< 5	5	1
10335	Vinyl Chloride	75-01-4	< 5	5	1

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Analysis Report

Sample Description: GFGPMW-4 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7408343
LL Group # 1462395
Account # 12152

Project Name: Fairfax 26140

Collected: 03/24/2014 14:00 by CL

Submitted: 03/26/2014 17:20
Reported: 04/04/2014 13:53

Kleinfelder
1 Speen Street
Framingham MA 01701

GFGPM

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles		**SW-846 8260B**	**ug/l**	**ug/l**	
10335	Xylene (Total)	1330-20-7	< 5	5	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
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	W140901AA	04/01/2014 02:24	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W140901AA	04/01/2014 02:24	Sarah A Guill	1

Quality Control Summary

Client Name: Kleinfelder Group Number: 1462395
Reported: 04/04/14 at 01:53 PM

Matrix QC may not be reported if insufficient sample or 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.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: W140901AA	Sample number(s): 7408343							
Acetone	< 20	20.	ug/l	89	87	43-149	2	30
Acrolein	< 100	100.	ug/l	89	92	52-129	4	30
Acrylonitrile	< 20	20.	ug/l	82	82	62-120	0	30
t-Amyl methyl ether	< 5	5.	ug/l	95	97	75-120	2	30
Benzene	< 5	5.	ug/l	94	95	78-120	1	30
Bromodichloromethane	< 5	5.	ug/l	93	95	73-120	1	30
Bromoform	< 5	5.	ug/l	90	90	61-120	0	30
Bromomethane	< 5	5.	ug/l	105	108	58-120	3	30
2-Butanone	< 10	10.	ug/l	87	88	54-133	1	30
t-Butyl alcohol	< 80	80.	ug/l	108	109	75-120	1	30
n-Butylbenzene	< 5	5.	ug/l	89	87	68-120	2	30
sec-Butylbenzene	< 5	5.	ug/l	92	90	80-120	2	30
Carbon Tetrachloride	< 5	5.	ug/l	93	94	74-130	1	30
Chlorobenzene	< 5	5.	ug/l	98	103	80-120	5	30
Chloroethane	< 5	5.	ug/l	95	97	56-120	2	30
2-Chloroethyl Vinyl Ether	< 10	10.	ug/l	93	94	54-126	1	30
Chloroform	< 5	5.	ug/l	100	101	80-122	0	30
Chloromethane	< 5	5.	ug/l	88	85	63-120	4	30
Dibromochloromethane	< 5	5.	ug/l	96	97	72-120	1	30
1,2-Dichlorobenzene	< 5	5.	ug/l	100	98	80-120	2	30
1,3-Dichlorobenzene	< 5	5.	ug/l	97	98	80-120	0	30
1,4-Dichlorobenzene	< 5	5.	ug/l	96	98	80-120	2	30
1,1-Dichloroethane	< 5	5.	ug/l	91	92	80-120	1	30
1,2-Dichloroethane	< 5	5.	ug/l	99	101	65-135	2	30
1,1-Dichloroethene	< 5	5.	ug/l	101	102	76-124	1	30
cis-1,2-Dichloroethene	< 5	5.	ug/l	97	100	80-120	3	30
trans-1,2-Dichloroethene	< 5	5.	ug/l	102	101	80-120	1	30
1,2-Dichloropropane	< 5	5.	ug/l	91	93	80-120	1	30
cis-1,3-Dichloropropene	< 5	5.	ug/l	95	97	80-120	1	30
trans-1,3-Dichloropropene	< 5	5.	ug/l	91	94	76-120	3	30
Ethyl t-butyl ether	< 5	5.	ug/l	92	94	74-120	2	30
Ethylbenzene	< 5	5.	ug/l	94	96	79-120	2	30
di-Isopropyl ether	< 5	5.	ug/l	86	88	65-120	2	30
Isopropylbenzene	< 5	5.	ug/l	97	99	77-120	1	30
p-Isopropyltoluene	< 5	5.	ug/l	92	92	80-120	1	30
Methyl Tertiary Butyl Ether	< 5	5.	ug/l	95	99	75-120	4	30
Methylene Chloride	< 5	5.	ug/l	97	98	80-120	1	30
Naphthalene	< 5	5.	ug/l	94	95	47-126	2	30
n-Propylbenzene	< 5	5.	ug/l	92	91	80-120	0	30
1,1,2,2-Tetrachloroethane	< 5	5.	ug/l	97	96	70-120	1	30
Tetrachloroethene	< 5	5.	ug/l	102	100	80-120	2	30
Toluene	< 5	5.	ug/l	93	95	80-120	2	30
1,1,1-Trichloroethane	< 5	5.	ug/l	85	86	66-126	1	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
Reported: 04/04/14 at 01:53 PM

Group Number: 1462395

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,1,2-Trichloroethane	< 5	5.	ug/l	99	100	80-120	1	30
Trichloroethene	< 5	5.	ug/l	98	100	80-120	1	30
Trichlorofluoromethane	< 5	5.	ug/l	94	93	65-130	1	30
1,2,4-Trimethylbenzene	< 5	5.	ug/l	94	93	74-120	1	30
1,3,5-Trimethylbenzene	< 5	5.	ug/l	94	93	74-120	0	30
Vinyl Chloride	< 5	5.	ug/l	92	94	63-120	2	30
Xylene (Total)	< 5	5.	ug/l	99	100	80-120	1	30

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: 8260 VOCs
Batch number: W140901AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7408343	101	104	97	91
Blank	100	102	97	93
LCS	101	103	98	95
LCSD	101	101	98	96
Limits:	80-116	77-113	80-113	78-113

*- 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.

Lancaster Laboratories

Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 17152
Group #: 1462395 Sample #: 7408343

(2)

Client: Fairfax Petroleum | Acct. #:
Project Name/#: 26140 Great Falls, VA | PWSID #:
Project Manager: Mark C. Steele | P.O. #: 51141-293031
Sampler: Charlie Cole | Quote #:
Name of State where samples were collected: Virginia

For Lab Use Only
FSC:
SCR#:

Preservation Codes: H=HCl T=Thiosulfate N=HNO3 B=NaOH S=H2SO4 O=Other

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water (Potable / NPDES)	Matrix: Other	Total # of Containers	Analyses Requested / Preservation Codes: Full List VOCs, Including Oxygenates (8260B) (H)	Remarks	Temperature of samples upon receipt (if requested)
~~GFGPMW-1~~			X			X		3	X		
~~GFGPMW-2~~			X			X		3	X		
~~GFGPMW-3~~			X			X		3	X		
GFGPMW-4	3-24-14	1400	X			X		3	X		
~~GFGPMW-5~~			X			X		3	X		
~~GFGPMW-6~~			X			X		3	X		

Turnaround Time Requested (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax E-mail
Phone #: Fax #:
E-mail address:

Data Package Options (please circle if required)
Type I (validation/NJ reg) TX-TRRP-13
Type II (Tier II) MA MCP CT RCP
Type III (Reduced NJ)
Type IV (CLP SOW)
Type VI (Raw Data Only)

SDG Complete? Yes No

State-specific QC (MS/MSD/Dup)? Yes No
(If yes, indicated QC sample and submit triplicate volume)
Internal COC required? Yes No

Relinquished by:	Date	Time	Received by:	Date	Time
Charlie Cole	3-24-14	1700	Sample Room	3-25-14	1700
Sample Room	3/26/14	13:20	[illegible]	3/26/14	13:20
[illegible]	3/26/14 17:20	17:20			
			[illegible]	3/26/14	1720

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

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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)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

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 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.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥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.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Kleinfelder
1 Speen Street
Framingham MA 01701

April 04, 2014

Project: Fairfax 26140

Submittal Date: 03/26/2014
Group Number: 1462396
PO Number: 51141-293031
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
W-1 Grab Water	7408344
W-2 Grab Water	7408345
W-6 Grab Water	7408346
W-7 Grab Water	7408347
GFSCMW-2 Grab Water	7408348
GFSCMW-3 Grab Water	7408349

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

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ELECTRONIC COPY TO	Kleinfelder	Attn: Angela Vogt
ELECTRONIC COPY TO	Kleinfelder	Attn: Venelda Williams
ELECTRONIC COPY TO	Kleinfelder	Attn: Charlie Low
ELECTRONIC COPY TO	Kleinfelder	Attn: Paxton Wertz

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

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Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: W-1 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7408344
LL Group # 1462396
Account # 12152

Project Name: Fairfax 26140

Collected: 03/25/2014 10:45 by CL

Submitted: 03/26/2014 17:20
Reported: 04/04/2014 15:34

Kleinfelder
1 Speen Street
Framingham MA 01701

FXPW1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	**t-Amyl methyl ether**	994-05-8	**170**	25	25
10335	Benzene	71-43-2	< 25	25	25
10335	**t-Butyl alcohol**	75-65-0	**15,000**	500	25
10335	Ethyl t-butyl ether	637-92-3	< 25	25	25
10335	Ethylbenzene	100-41-4	< 25	25	25
10335	**di-Isopropyl ether**	108-20-3	**170**	25	25
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**16,000**	500	100
10335	Toluene	108-88-3	< 25	25	25
10335	Xylene (Total)	1330-20-7	< 25	25	25

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
10335	BTEX + 5 Oxys	SW-846 8260B	1	Y140881AA	03/29/2014 17:53	Kevin A Sposito	100
10335	BTEX + 5 Oxys	SW-846 8260B	1	Y140921AA	04/02/2014 21:03	Angela D Sneeringer	25
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y140881AA	03/29/2014 17:53	Kevin A Sposito	100
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y140921AA	04/02/2014 21:03	Angela D Sneeringer	25

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Analysis Report

Sample Description: W-2 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7408345
LL Group # 1462396
Account # 12152

Project Name: Fairfax 26140

Collected: 03/25/2014 09:45 by CL

Submitted: 03/26/2014 17:20
Reported: 04/04/2014 15:34

Kleinfelder
1 Speen Street
Framingham MA 01701

FXPW2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	t-Amyl methyl ether	994-05-8	< 100	100	20
10335	Benzene	71-43-2	< 100	100	20
10335	t-Butyl alcohol	75-65-0	< 1,600	1,600	20
10335	Ethyl t-butyl ether	637-92-3	< 100	100	20
10335	Ethylbenzene	100-41-4	< 100	100	20
10335	**di-Isopropyl ether**	108-20-3	**130**	100	20
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**7,000**	1,000	200
10335	Toluene	108-88-3	< 100	100	20
10335	Xylene (Total)	1330-20-7	< 100	100	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
10335	BTEX + 5 Oxys	SW-846 8260B	1	Y140881AA	03/29/2014 18:35	Kevin A Sposito	20
10335	BTEX + 5 Oxys	SW-846 8260B	1	Y140881AA	03/29/2014 18:56	Kevin A Sposito	200
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y140881AA	03/29/2014 18:35	Kevin A Sposito	20
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y140881AA	03/29/2014 18:56	Kevin A Sposito	200

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Analysis Report

Sample Description: W-6 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7408346
LL Group # 1462396
Account # 12152

Project Name: Fairfax 26140

Collected: 03/25/2014 08:45 by CL

Submitted: 03/26/2014 17:20
Reported: 04/04/2014 15:34

Kleinfelder
1 Speen Street
Framingham MA 01701

FXPW6

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	t-Amyl methyl ether	994-05-8	< 5	5	1
10335	Benzene	71-43-2	< 5	5	1
10335	t-Butyl alcohol	75-65-0	< 80	80	1
10335	Ethyl t-butyl ether	637-92-3	< 5	5	1
10335	Ethylbenzene	100-41-4	< 5	5	1
10335	di-Isopropyl ether	108-20-3	< 5	5	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	< 5	5	1
10335	Toluene	108-88-3	< 5	5	1
10335	Xylene (Total)	1330-20-7	< 5	5	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
10335	BTEX + 5 Oxys	SW-846 8260B	1	Y140881AA	03/29/2014 14:20	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y140881AA	03/29/2014 14:20	Kevin A Sposito	1

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Analysis Report

Sample Description: W-7 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7408347
LL Group # 1462396
Account # 12152

Project Name: Fairfax 26140

Collected: 03/24/2014 16:00 by CL

Submitted: 03/26/2014 17:20
Reported: 04/04/2014 15:34

Kleinfelder
1 Speen Street
Framingham MA 01701

FXPW7

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	t-Amyl methyl ether	994-05-8	< 5	5	1
10335	Benzene	71-43-2	< 5	5	1
10335	t-Butyl alcohol	75-65-0	< 80	80	1
10335	Ethyl t-butyl ether	637-92-3	< 5	5	1
10335	Ethylbenzene	100-41-4	< 5	5	1
10335	di-Isopropyl ether	108-20-3	< 5	5	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	< 5	5	1
10335	Toluene	108-88-3	< 5	5	1
10335	Xylene (Total)	1330-20-7	< 5	5	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
10335	BTEX + 5 Oxys	SW-846 8260B	1	Y140881AA	03/29/2014 14:41	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y140881AA	03/29/2014 14:41	Kevin A Sposito	1

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Analysis Report

Sample Description: GFSCMW-2 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7408348
LL Group # 1462396
Account # 12152

Project Name: Fairfax 26140

Collected: 03/24/2014 14:35 by CL

Submitted: 03/26/2014 17:20
Reported: 04/04/2014 15:34

Kleinfelder
1 Speen Street
Framingham MA 01701

FX-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	t-Amyl methyl ether	994-05-8	< 5	5	1
10335	Benzene	71-43-2	< 5	5	1
10335	t-Butyl alcohol	75-65-0	< 80	80	1
10335	Ethyl t-butyl ether	637-92-3	< 5	5	1
10335	Ethylbenzene	100-41-4	< 5	5	1
10335	di-Isopropyl ether	108-20-3	< 5	5	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	< 5	5	1
10335	Toluene	108-88-3	< 5	5	1
10335	Xylene (Total)	1330-20-7	< 5	5	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
10335	BTEX + 5 Oxys	SW-846 8260B	1	Y140881AA	03/29/2014 15:02	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y140881AA	03/29/2014 15:02	Kevin A Sposito	1

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Analysis Report

Sample Description: GFSCMW-3 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7408349
LL Group # 1462396
Account # 12152

Project Name: Fairfax 26140

Collected: 03/24/2014 15:20 by CL

Submitted: 03/26/2014 17:20
Reported: 04/04/2014 15:34

Kleinfelder
1 Speen Street
Framingham MA 01701

FX-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	t-Amyl methyl ether	994-05-8	< 5	5	1
10335	Benzene	71-43-2	< 5	5	1
10335	t-Butyl alcohol	75-65-0	< 80	80	1
10335	Ethyl t-butyl ether	637-92-3	< 5	5	1
10335	Ethylbenzene	100-41-4	< 5	5	1
10335	di-Isopropyl ether	108-20-3	< 5	5	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	< 5	5	1
10335	Toluene	108-88-3	< 5	5	1
10335	Xylene (Total)	1330-20-7	< 5	5	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
10335	BTEX + 5 Oxys	SW-846 8260B	1	Y140881AA	03/29/2014 15:24	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y140881AA	03/29/2014 15:24	Kevin A Sposito	1

Quality Control Summary

Client Name: Kleinfelder Group Number: 1462396
Reported: 04/04/14 at 03:34 PM

Matrix QC may not be reported if insufficient sample or 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.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: Y140881AA	Sample number(s): 7408344-7408349							
t-Amyl methyl ether	< 5	5.	ug/l	83	85	75-120	2	30
Benzene	< 5	5.	ug/l	93	94	78-120	1	30
t-Butyl alcohol	< 80	80.	ug/l	95	95	75-120	0	30
Ethyl t-butyl ether	< 5	5.	ug/l	84	86	74-120	2	30
Ethylbenzene	< 5	5.	ug/l	90	92	79-120	2	30
di-Isopropyl ether	< 5	5.	ug/l	90	92	65-120	2	30
Methyl Tertiary Butyl Ether	< 5	5.	ug/l	85	86	75-120	0	30
Toluene	< 5	5.	ug/l	94	97	80-120	3	30
Xylene (Total)	< 5	5.	ug/l	92	94	80-120	2	30
Batch number: Y140921AA	Sample number(s): 7408344							
t-Amyl methyl ether	< 1	1.	ug/l	86		75-120		
Benzene	< 1	1.	ug/l	96		78-120		
t-Butyl alcohol	< 20	20.	ug/l	100		75-120		
Ethyl t-butyl ether	< 1	1.	ug/l	88		74-120		
Ethylbenzene	< 1	1.	ug/l	95		79-120		
di-Isopropyl ether	< 1	1.	ug/l	93		65-120		
Toluene	< 1	1.	ug/l	99		80-120		
Xylene (Total)	< 1	1.	ug/l	97		80-120		

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: Y140921AA	Sample number(s): 7408344 UNSPK: P416180								
t-Amyl methyl ether	85	83	65-117	3	30				
Benzene	102	99	72-134	4	30				
t-Butyl alcohol	97	96	67-119	2	30				
Ethyl t-butyl ether	88	86	74-122	2	30				
Ethylbenzene	103	98	71-134	5	30				
di-Isopropyl ether	96	90	70-129	6	30				
Toluene	105	101	80-125	4	30				
Xylene (Total)	104	100	79-125	4	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: 1462396
Reported: 04/04/14 at 03:34 PM

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: 8260 VOCs
Batch number: Y140881AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7408345	94	102	99	94
7408346	94	99	99	95
7408347	94	101	100	97
7408348	93	100	99	95
7408349	94	101	99	94
Blank	95	101	99	95
LCS	96	100	100	96
LCSD	96	103	100	97
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 8260 VOCs
Batch number: Y140921AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7408344	94	101	99	94
Blank	96	101	99	94
LCS	97	105	99	97
MS	97	101	99	96
MSD	97	102	99	97
Limits:	80-116	77-113	80-113	78-113

*- 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.

Lancaster Laboratories

Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 12152
Group #: 1462396 Sample #: 7408344-49

Client:	Fairfax Petroleum	Acct. #:	
Project Name/#:	26140 Great Falls, VA	PWSID #:	
Project Manager:	Mark C. Steele	P.O. #:	51141-293031
Sampler:	Charlie Low	Quote #:	
Name of State where samples were collected:	Virginia		

For Lab Use Only
FSC:
SCR#:

Preservation Codes: H=HCl T=Thiosulfate N=HNO3 B=NaOH S=H2SO4 O=Other

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water (Potable / NPDES)	Other	Total # of Containers	BTEX + Oxygenates (TBA, TAME, ETBE, DIPE, MTBE)	Remarks	Temperature of samples upon receipt (if requested)
									Preservation Codes: H		
W-1	3-25-14	1045	X			X		3	X		
W-2	3-25-14	0845	X			X		3	X		
W-6	3-25-14	0845	X			X		3	X		
W-7	3-24-14	1600	X			X		3	X		
GFSCMW-2	3-24-14	1435	X			X		3	X		
GFSCMW-3	3-24-14	1520	X			X		3	X		

Turnaround Time Requested (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax E-mail
Phone #: Fax #:
E-mail address:

Data Package Options (please circle if required)
Type I (validation/NJ reg) TX-TRRP-13
Type II (Tier II) MA MCP CT RCP
Type III (Reduced NJ)
Type IV (CLP SOW)
Type VI (Raw Data Only)

SDG Complete? Yes No

State-specific QC (MS/MSD/Dup)? Yes No
(If yes, indicated QC sample and submit triplicate volume)
Internal COC required? Yes No

Relinquished by:	Date	Time	Received by:	Date	Time
Charlie Low	3-25-14	1700	Sample Room	3-25-14	1700
Sample Room	3/26/14	13:30	[illegible]	3/26/14	13:30
[illegible]	3/26/14	17:20			
			[illegible]	3/26/14	1720

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

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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)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

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 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.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥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.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Kleinfelder
1 Speen Street
Framingham MA 01701

April 04, 2014

Project: Fairfax 26140

Submittal Date: 03/28/2014
Group Number: 1463028
PO Number: 51141-293031
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
MW-7 Grab Water	7411711

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

ELECTRONIC COPY TO	Kleinfelder	Attn: Mark Steele
ELECTRONIC COPY TO	Kleinfelder	Attn: Angela Vogt
ELECTRONIC COPY TO	Kleinfelder	Attn: Venelda Williams
ELECTRONIC COPY TO	Kleinfelder	Attn: Charlie Low
ELECTRONIC COPY TO	Kleinfelder	Attn: Paxton Wertz

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

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Analysis Report

Sample Description: MW-7 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7411711
LL Group # 1463028
Account # 12152

Project Name: Fairfax 26140

Collected: 03/28/2014 06:42 by TB

Submitted: 03/28/2014 15:02
Reported: 04/04/2014 13:51

Kleinfelder
1 Speen Street
Framingham MA 01701

GRT07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	< 20	20	1
10335	Acrolein	107-02-8	< 100	100	1
10335	Acrylonitrile	107-13-1	< 20	20	1
10335	**t-Amyl methyl ether**	994-05-8	**6**	1	1
10335	Benzene	71-43-2	< 1	1	1
10335	Bromodichloromethane	75-27-4	< 1	1	1
10335	Bromoform	75-25-2	< 4	4	1
10335	Bromomethane	74-83-9	< 1	1	1
10335	2-Butanone	78-93-3	< 10	10	1
10335	t-Butyl alcohol	75-65-0	< 20	20	1
10335	n-Butylbenzene	104-51-8	< 5	5	1
10335	sec-Butylbenzene	135-98-8	< 5	5	1
10335	Carbon Tetrachloride	56-23-5	< 1	1	1
10335	Chlorobenzene	108-90-7	< 1	1	1
10335	Chloroethane	75-00-3	< 1	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	< 10	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	< 1	1	1
10335	Chloromethane	74-87-3	< 1	1	1
10335	Dibromochloromethane	124-48-1	< 1	1	1
10335	1,2-Dichlorobenzene	95-50-1	< 5	5	1
10335	1,3-Dichlorobenzene	541-73-1	< 5	5	1
10335	1,4-Dichlorobenzene	106-46-7	< 5	5	1
10335	1,1-Dichloroethane	75-34-3	< 1	1	1
10335	1,2-Dichloroethane	107-06-2	< 1	1	1
10335	1,1-Dichloroethene	75-35-4	< 1	1	1
10335	cis-1,2-Dichloroethene	156-59-2	< 1	1	1
10335	trans-1,2-Dichloroethene	156-60-5	< 1	1	1
10335	1,2-Dichloropropane	78-87-5	< 1	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	< 1	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	< 1	1	1
10335	Ethyl t-butyl ether	637-92-3	< 1	1	1
10335	Ethylbenzene	100-41-4	< 1	1	1
10335	**di-Isopropyl ether**	108-20-3	**13**	1	1
10335	Isopropylbenzene	98-82-8	< 5	5	1
10335	p-Isopropyltoluene	99-87-6	< 5	5	1
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**430**	10	10
10335	Methylene Chloride	75-09-2	< 3	3	1
10335	Naphthalene	91-20-3	< 5	5	1
10335	n-Propylbenzene	103-65-1	< 5	5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	< 1	1	1
10335	Tetrachloroethene	127-18-4	< 1	1	1
10335	Toluene	108-88-3	< 1	1	1
10335	1,1,1-Trichloroethane	71-55-6	< 1	1	1
10335	1,1,2-Trichloroethane	79-00-5	< 1	1	1
10335	Trichloroethene	79-01-6	< 1	1	1
10335	Trichlorofluoromethane	75-69-4	< 1	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	< 5	5	1
10335	1,3,5-Trimethylbenzene	108-67-8	< 5	5	1

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Analysis Report

Sample Description: MW-7 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7411711
LL Group # 1463028
Account # 12152

Project Name: Fairfax 26140

Collected: 03/28/2014 06:42 by TB

Submitted: 03/28/2014 15:02
Reported: 04/04/2014 13:51

Kleinfelder
1 Speen Street
Framingham MA 01701

GRT07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Vinyl Chloride	75-01-4	< 1	1	1
10335	Xylene (Total)	1330-20-7	< 1	1	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

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
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	W140911AA	04/02/2014 00:18	Sarah A Guill	1
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	W140911AA	04/02/2014 00:42	Sarah A Guill	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W140911AA	04/02/2014 00:18	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W140911AA	04/02/2014 00:42	Sarah A Guill	10

Quality Control Summary

Client Name: Kleinfelder Group Number: 1463028
Reported: 04/04/14 at 01:51 PM

Matrix QC may not be reported if insufficient sample or 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.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: W140911AA	Sample number(s): 7411711							
Acetone	< 20	20.	ug/l	88		43-149		
Acrolein	< 100	100.	ug/l	93		52-129		
Acrylonitrile	< 20	20.	ug/l	84		62-120		
t-Amyl methyl ether	< 1	1.	ug/l	97		75-120		
Benzene	< 1	1.	ug/l	96		78-120		
Bromodichloromethane	< 1	1.	ug/l	94		73-120		
Bromoform	< 4	4.	ug/l	91		61-120		
Bromomethane	< 1	1.	ug/l	106		58-120		
2-Butanone	< 10	10.	ug/l	88		54-133		
t-Butyl alcohol	< 20	20.	ug/l	108		75-120		
n-Butylbenzene	< 5	5.	ug/l	89		68-120		
sec-Butylbenzene	< 5	5.	ug/l	95		80-120		
Carbon Tetrachloride	< 1	1.	ug/l	96		74-130		
Chlorobenzene	< 1	1.	ug/l	103		80-120		
Chloroethane	< 1	1.	ug/l	96		56-120		
2-Chloroethyl Vinyl Ether	< 10	10.	ug/l	96		54-126		
Chloroform	< 1	1.	ug/l	101		80-122		
Chloromethane	< 1	1.	ug/l	91		63-120		
Dibromochloromethane	< 1	1.	ug/l	99		72-120		
1,2-Dichlorobenzene	< 5	5.	ug/l	102		80-120		
1,3-Dichlorobenzene	< 5	5.	ug/l	101		80-120		
1,4-Dichlorobenzene	< 5	5.	ug/l	100		80-120		
1,1-Dichloroethane	< 1	1.	ug/l	91		80-120		
1,2-Dichloroethane	< 1	1.	ug/l	100		65-135		
1,1-Dichloroethene	< 1	1.	ug/l	103		76-124		
cis-1,2-Dichloroethene	< 1	1.	ug/l	101		80-120		
trans-1,2-Dichloroethene	< 1	1.	ug/l	103		80-120		
1,2-Dichloropropane	< 1	1.	ug/l	93		80-120		
cis-1,3-Dichloropropene	< 1	1.	ug/l	97		80-120		
trans-1,3-Dichloropropene	< 1	1.	ug/l	93		76-120		
Ethyl t-butyl ether	< 1	1.	ug/l	94		74-120		
Ethylbenzene	< 1	1.	ug/l	97		79-120		
di-Isopropyl ether	< 1	1.	ug/l	89		65-120		
Isopropylbenzene	< 5	5.	ug/l	99		77-120		
p-Isopropyltoluene	< 5	5.	ug/l	94		80-120		
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	99		75-120		
Methylene Chloride	< 3	3.	ug/l	98		80-120		
Naphthalene	< 5	5.	ug/l	96		47-126		
n-Propylbenzene	< 5	5.	ug/l	94		80-120		
1,1,2,2-Tetrachloroethane	< 1	1.	ug/l	98		70-120		
Tetrachloroethene	< 1	1.	ug/l	100		80-120		
Toluene	< 1	1.	ug/l	95		80-120		
1,1,1-Trichloroethane	< 1	1.	ug/l	88		66-126		

*- 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: 1463028
Reported: 04/04/14 at 01:51 PM

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,1,2-Trichloroethane	< 1	1.	ug/l	102		80-120		
Trichloroethene	< 1	1.	ug/l	101		80-120		
Trichlorofluoromethane	< 1	1.	ug/l	96		65-130		
1,2,4-Trimethylbenzene	< 5	5.	ug/l	98		74-120		
1,3,5-Trimethylbenzene	< 5	5.	ug/l	95		74-120		
Vinyl Chloride	< 1	1.	ug/l	96		63-120		
Xylene (Total)	< 1	1.	ug/l	101		80-120		

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: W140911AA	Sample number(s): 7411711 UNSPK: P411778								
Acetone	92	91	35-144	1	30				
Acrolein	93	89	39-136	5	30				
Acrylonitrile	86	86	51-125	0	30				
t-Amyl methyl ether	103	102	65-117	1	30				
Benzene	106	106	72-134	0	30				
Bromodichloromethane	100	103	73-125	2	30				
Bromoform	95	94	48-118	1	30				
Bromomethane	122	119	47-129	2	30				
2-Butanone	87	89	44-135	2	30				
t-Butyl alcohol	112	108	67-119	3	30				
n-Butylbenzene	99	99	74-134	1	30				
sec-Butylbenzene	105	105	74-137	0	30				
Carbon Tetrachloride	115	112	75-148	3	30				
Chlorobenzene	111	110	87-124	1	30				
Chloroethane	111	110	55-130	1	30				
2-Chloroethyl Vinyl Ether	0*	0*	10-151	0	30				
Chloroform	113	112	81-134	0	30				
Chloromethane	100	101	61-125	1	30				
Dibromochloromethane	104	102	74-116	2	30				
1,2-Dichlorobenzene	107	106	84-119	1	30				
1,3-Dichlorobenzene	106	107	86-121	0	30				
1,4-Dichlorobenzene	107	106	85-121	1	30				
1,1-Dichloroethane	102	101	84-129	2	30				
1,2-Dichloroethane	109	106	63-142	2	30				
1,1-Dichloroethene	120	116	79-137	4	30				
cis-1,2-Dichloroethene	110	109	80-141	1	30				
trans-1,2-Dichloroethene	116	114	86-131	2	30				
1,2-Dichloropropane	99	100	83-124	1	30				
cis-1,3-Dichloropropene	102	102	70-116	1	30				
trans-1,3-Dichloropropene	94	95	74-119	1	30				
Ethyl t-butyl ether	102	98	74-122	3	30				
Ethylbenzene	106	104	71-134	1	30				
di-Isopropyl ether	94	93	70-129	1	30				
Isopropylbenzene	110	109	75-128	1	30				
p-Isopropyltoluene	104	105	76-123	1	30				
Methyl Tertiary Butyl Ether	103	104	72-126	0	30				
Methylene Chloride	107	105	78-133	2	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: 1463028
Reported: 04/04/14 at 01:51 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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Naphthalene	99	100	52-125	1	30				
n-Propylbenzene	102	103	74-134	1	30				
1,1,2,2-Tetrachloroethane	101	101	72-128	0	30				
Tetrachloroethene	114	115	80-128	1	30				
Toluene	103	102	80-125	1	30				
1,1,1-Trichloroethane	102	101	69-140	1	30				
1,1,2-Trichloroethane	105	105	71-141	0	30				
Trichloroethene	114	113	88-133	1	30				
Trichlorofluoromethane	123	122	63-163	1	30				
1,2,4-Trimethylbenzene	104	103	72-130	1	30				
1,3,5-Trimethylbenzene	104	104	65-132	1	30				
Vinyl Chloride	113	112	66-133	1	30				
Xylene (Total)	110	109	79-125	1	30				

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: 8260 VOCs
Batch number: W140911AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7411711	101	103	96	91
Blank	102	104	96	92
LCS	101	99	99	96
MS	102	103	98	96
MSD	101	102	98	96
Limits:	80-116	77-113	80-113	78-113

*- 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.

Lancaster Laboratories

Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 12152
Group #: 1463028 Sample #: 7411711

Client:	Fairfax Petroleum	Acct. #:	
Project Name/#:	26140 Great Falls, VA	PWSID #:	
Project Manager:	Mark C. Steele	P.O. #:	51141-293031
Sampler:	Tim Boswell	Quote #:	
Name of State where samples were collected:	Virginia		

For Lab Use Only
FSC:
SCR#:

Preservation Codes
H=HCl T=Thiosulfate
N=HNO3 B=NaOH
S=H2SO4 O=Other

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water (Potable / NPDES)	Matrix: Other	Total # of Containers	Analyses Requested / Preservation Codes: Full List VOCs, Including Oxygenates (8260B) (H)	Remarks	Temperature of samples upon receipt (if requested)
MW-7	3/28/14	0642	X			X		3	X		

Cooler

Turnaround Time Requested (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax E-mail
Phone #: Fax #:
E-mail address:

Data Package Options (please circle if required)
Type I (validation/NJ reg) TX-TRRP-13
Type II (Tier II) MA MCP CT RCP
Type III (Reduced NJ)
Type IV (CLP SOW)
Type VI (Raw Data Only)

SDG Complete? Yes No

State-specific QC (MS/MSD/Dup)? Yes No
(If yes, indicated QC sample and submit triplicate volume)
Internal COC required? Yes No

Relinquished by:	Date	Time	Received by:	Date	Time
	3/28/14	1145	Cooler room	3/28/14	1145
	3/28/14	1145		3-28-14	1145
			3/28/14		1500

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

1 of 1

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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)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

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 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.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥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.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Kleinfelder
1 Speen Street
Framingham MA 01701

April 04, 2014

Project: Fairfax 26140

Submittal Date: 03/28/2014
Group Number: 1463029
PO Number: 51141-293031
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
MW-19D Grab Water	7411712

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

ELECTRONIC COPY TO	Kleinfelder	Attn: Mark Steele
ELECTRONIC COPY TO	Kleinfelder	Attn: Angela Vogt
ELECTRONIC COPY TO	Kleinfelder	Attn: Venelda Williams
ELECTRONIC COPY TO	Kleinfelder	Attn: Charlie Low
ELECTRONIC COPY TO	Kleinfelder	Attn: Paxton Wertz

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

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Analysis Report

Sample Description: MW-19D Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7411712
LL Group # 1463029
Account # 12152

Project Name: Fairfax 26140

Collected: 03/28/2014 05:44 by TB

Submitted: 03/28/2014 15:02
Reported: 04/04/2014 13:52

Kleinfelder
1 Speen Street
Framingham MA 01701

GRT19

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	< 20	20	1
10335	Acrolein	107-02-8	< 100	100	1
10335	Acrylonitrile	107-13-1	< 20	20	1
10335	t-Amyl methyl ether	994-05-8	< 1	1	1
10335	Benzene	71-43-2	< 1	1	1
10335	Bromodichloromethane	75-27-4	< 1	1	1
10335	Bromoform	75-25-2	< 4	4	1
10335	Bromomethane	74-83-9	< 1	1	1
10335	2-Butanone	78-93-3	< 10	10	1
10335	t-Butyl alcohol	75-65-0	< 20	20	1
10335	n-Butylbenzene	104-51-8	< 5	5	1
10335	sec-Butylbenzene	135-98-8	< 5	5	1
10335	Carbon Tetrachloride	56-23-5	< 1	1	1
10335	Chlorobenzene	108-90-7	< 1	1	1
10335	Chloroethane	75-00-3	< 1	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	< 10	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	< 1	1	1
10335	Chloromethane	74-87-3	< 1	1	1
10335	Dibromochloromethane	124-48-1	< 1	1	1
10335	1,2-Dichlorobenzene	95-50-1	< 5	5	1
10335	1,3-Dichlorobenzene	541-73-1	< 5	5	1
10335	1,4-Dichlorobenzene	106-46-7	< 5	5	1
10335	1,1-Dichloroethane	75-34-3	< 1	1	1
10335	1,2-Dichloroethane	107-06-2	< 1	1	1
10335	1,1-Dichloroethene	75-35-4	< 1	1	1
10335	**cis-1,2-Dichloroethene**	156-59-2	**13**	1	1
10335	trans-1,2-Dichloroethene	156-60-5	< 1	1	1
10335	1,2-Dichloropropane	78-87-5	< 1	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	< 1	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	< 1	1	1
10335	Ethyl t-butyl ether	637-92-3	< 1	1	1
10335	Ethylbenzene	100-41-4	< 1	1	1
10335	di-Isopropyl ether	108-20-3	< 1	1	1
10335	Isopropylbenzene	98-82-8	< 5	5	1
10335	p-Isopropyltoluene	99-87-6	< 5	5	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	< 1	1	1
10335	Methylene Chloride	75-09-2	< 3	3	1
10335	Naphthalene	91-20-3	< 5	5	1
10335	n-Propylbenzene	103-65-1	< 5	5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	< 1	1	1
10335	**Tetrachloroethene**	127-18-4	**2**	1	1
10335	Toluene	108-88-3	< 1	1	1
10335	1,1,1-Trichloroethane	71-55-6	< 1	1	1
10335	1,1,2-Trichloroethane	79-00-5	< 1	1	1
10335	**Trichloroethene**	79-01-6	**2**	1	1
10335	Trichlorofluoromethane	75-69-4	< 1	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	< 5	5	1
10335	1,3,5-Trimethylbenzene	108-67-8	< 5	5	1
10335	Vinyl Chloride	75-01-4	< 1	1	1

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Analysis Report

Sample Description: MW-19D Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7411712
LL Group # 1463029
Account # 12152

Project Name: Fairfax 26140

Collected: 03/28/2014 05:44 by TB

Submitted: 03/28/2014 15:02
Reported: 04/04/2014 13:52

Kleinfelder
1 Speen Street
Framingham MA 01701

GRT19

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Xylene (Total)	1330-20-7	< 1	1	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

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
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	W140911AA	04/02/2014 01:05	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W140911AA	04/02/2014 01:05	Sarah A Guill	1

Quality Control Summary

Client Name: Kleinfelder Group Number: 1463029
Reported: 04/04/14 at 01:52 PM

Matrix QC may not be reported if insufficient sample or 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.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: W140911AA	Sample number(s): 7411712							
Acetone	< 20	20.	ug/l	88		43-149		
Acrolein	< 100	100.	ug/l	93		52-129		
Acrylonitrile	< 20	20.	ug/l	84		62-120		
t-Amyl methyl ether	< 1	1.	ug/l	97		75-120		
Benzene	< 1	1.	ug/l	96		78-120		
Bromodichloromethane	< 1	1.	ug/l	94		73-120		
Bromoform	< 4	4.	ug/l	91		61-120		
Bromomethane	< 1	1.	ug/l	106		58-120		
2-Butanone	< 10	10.	ug/l	88		54-133		
t-Butyl alcohol	< 20	20.	ug/l	108		75-120		
n-Butylbenzene	< 5	5.	ug/l	89		68-120		
sec-Butylbenzene	< 5	5.	ug/l	95		80-120		
Carbon Tetrachloride	< 1	1.	ug/l	96		74-130		
Chlorobenzene	< 1	1.	ug/l	103		80-120		
Chloroethane	< 1	1.	ug/l	96		56-120		
2-Chloroethyl Vinyl Ether	< 10	10.	ug/l	96		54-126		
Chloroform	< 1	1.	ug/l	101		80-122		
Chloromethane	< 1	1.	ug/l	91		63-120		
Dibromochloromethane	< 1	1.	ug/l	99		72-120		
1,2-Dichlorobenzene	< 5	5.	ug/l	102		80-120		
1,3-Dichlorobenzene	< 5	5.	ug/l	101		80-120		
1,4-Dichlorobenzene	< 5	5.	ug/l	100		80-120		
1,1-Dichloroethane	< 1	1.	ug/l	91		80-120		
1,2-Dichloroethane	< 1	1.	ug/l	100		65-135		
1,1-Dichloroethene	< 1	1.	ug/l	103		76-124		
cis-1,2-Dichloroethene	< 1	1.	ug/l	101		80-120		
trans-1,2-Dichloroethene	< 1	1.	ug/l	103		80-120		
1,2-Dichloropropane	< 1	1.	ug/l	93		80-120		
cis-1,3-Dichloropropene	< 1	1.	ug/l	97		80-120		
trans-1,3-Dichloropropene	< 1	1.	ug/l	93		76-120		
Ethyl t-butyl ether	< 1	1.	ug/l	94		74-120		
Ethylbenzene	< 1	1.	ug/l	97		79-120		
di-Isopropyl ether	< 1	1.	ug/l	89		65-120		
Isopropylbenzene	< 5	5.	ug/l	99		77-120		
p-Isopropyltoluene	< 5	5.	ug/l	94		80-120		
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	99		75-120		
Methylene Chloride	< 3	3.	ug/l	98		80-120		
Naphthalene	< 5	5.	ug/l	96		47-126		
n-Propylbenzene	< 5	5.	ug/l	94		80-120		
1,1,2,2-Tetrachloroethane	< 1	1.	ug/l	98		70-120		
Tetrachloroethene	< 1	1.	ug/l	100		80-120		
Toluene	< 1	1.	ug/l	95		80-120		
1,1,1-Trichloroethane	< 1	1.	ug/l	88		66-126		

*- 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: 1463029
Reported: 04/04/14 at 01:52 PM

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,1,2-Trichloroethane	< 1	1.	ug/l	102		80-120		
Trichloroethene	< 1	1.	ug/l	101		80-120		
Trichlorofluoromethane	< 1	1.	ug/l	96		65-130		
1,2,4-Trimethylbenzene	< 5	5.	ug/l	98		74-120		
1,3,5-Trimethylbenzene	< 5	5.	ug/l	95		74-120		
Vinyl Chloride	< 1	1.	ug/l	96		63-120		
Xylene (Total)	< 1	1.	ug/l	101		80-120		

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: W140911AA	Sample number(s): 7411712 UNSPK: P411778								
Acetone	92	91	35-144	1	30				
Acrolein	93	89	39-136	5	30				
Acrylonitrile	86	86	51-125	0	30				
t-Amyl methyl ether	103	102	65-117	1	30				
Benzene	106	106	72-134	0	30				
Bromodichloromethane	100	103	73-125	2	30				
Bromoform	95	94	48-118	1	30				
Bromomethane	122	119	47-129	2	30				
2-Butanone	87	89	44-135	2	30				
t-Butyl alcohol	112	108	67-119	3	30				
n-Butylbenzene	99	99	74-134	1	30				
sec-Butylbenzene	105	105	74-137	0	30				
Carbon Tetrachloride	115	112	75-148	3	30				
Chlorobenzene	111	110	87-124	1	30				
Chloroethane	111	110	55-130	1	30				
2-Chloroethyl Vinyl Ether	0*	0*	10-151	0	30				
Chloroform	113	112	81-134	0	30				
Chloromethane	100	101	61-125	1	30				
Dibromochloromethane	104	102	74-116	2	30				
1,2-Dichlorobenzene	107	106	84-119	1	30				
1,3-Dichlorobenzene	106	107	86-121	0	30				
1,4-Dichlorobenzene	107	106	85-121	1	30				
1,1-Dichloroethane	102	101	84-129	2	30				
1,2-Dichloroethane	109	106	63-142	2	30				
1,1-Dichloroethene	120	116	79-137	4	30				
cis-1,2-Dichloroethene	110	109	80-141	1	30				
trans-1,2-Dichloroethene	116	114	86-131	2	30				
1,2-Dichloropropane	99	100	83-124	1	30				
cis-1,3-Dichloropropene	102	102	70-116	1	30				
trans-1,3-Dichloropropene	94	95	74-119	1	30				
Ethyl t-butyl ether	102	98	74-122	3	30				
Ethylbenzene	106	104	71-134	1	30				
di-Isopropyl ether	94	93	70-129	1	30				
Isopropylbenzene	110	109	75-128	1	30				
p-Isopropyltoluene	104	105	76-123	1	30				
Methyl Tertiary Butyl Ether	103	104	72-126	0	30				
Methylene Chloride	107	105	78-133	2	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: 1463029
Reported: 04/04/14 at 01:52 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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Naphthalene	99	100	52-125	1	30				
n-Propylbenzene	102	103	74-134	1	30				
1,1,2,2-Tetrachloroethane	101	101	72-128	0	30				
Tetrachloroethene	114	115	80-128	1	30				
Toluene	103	102	80-125	1	30				
1,1,1-Trichloroethane	102	101	69-140	1	30				
1,1,2-Trichloroethane	105	105	71-141	0	30				
Trichloroethene	114	113	88-133	1	30				
Trichlorofluoromethane	123	122	63-163	1	30				
1,2,4-Trimethylbenzene	104	103	72-130	1	30				
1,3,5-Trimethylbenzene	104	104	65-132	1	30				
Vinyl Chloride	113	112	66-133	1	30				
Xylene (Total)	110	109	79-125	1	30				

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: 8260 VOCs
Batch number: W140911AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7411712	103	103	96	91
Blank	102	104	96	92
LCS	101	99	99	96
MS	102	103	98	96
MSD	101	102	98	96
Limits:	80-116	77-113	80-113	78-113

*- 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.

Lancaster Laboratories

Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 12152
Group #: 1463029 Sample #: 7411712

Client: Fairfax Petroleum
Acct. #:
Project Name/#: 26140 Great Falls, VA
PWSID #:
Project Manager: Mark C. Steele
P.O. #: 51141-293031
Sampler: Tim Boswell
Quote #:
Name of State where samples were collected: Virginia

For Lab Use Only
FSC:
SCR#:

Preservation Codes: H=HCl T=Thiosulfate N=HNO3 B=NaOH S=H2SO4 O=Other

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water (Potable / NPDES)	Matrix: Other	Total # of Containers	Analyses Requested / Preservation Codes: Full List VOCs, Including Oxygenates (8260B) H								Remarks	Temperature of samples upon receipt (if requested)
MW-19D	3/28/14	0544	X			X		3	X									

Cooler

73

73

Turnaround Time Requested (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax E-mail
Phone #: Fax #:
E-mail address:

Data Package Options (please circle if required)
Type I (validation/NJ reg) TX-TRRP-13
Type II (Tier II) MA MCP CT RCP
Type III (Reduced NJ)
Type IV (CLP SOW)
Type VI (Raw Data Only)

SDG Complete? Yes No

State-specific QC (MS/MSD/Dup)? Yes No
(If yes, indicated QC sample and submit triplicate volume)
Internal COC required? Yes No

Relinquished by:	Date	Time	Received by:	Date	Time
	3/28/14	1145	~~UPS~~ (FED) Federal Express	3/28/14	1145
	3/28/14	1145		3/28/14	11:45
			~~Received~~ by:	3/28/14	1502

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

1 of 1

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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)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

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 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.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥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.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Kleinfelder
1 Speen Street
Framingham MA 01701

April 16, 2014

Project: Fairfax 26140

Submittal Date: 04/11/2014
Group Number: 1466592
PO Number: 51141-294572
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
MW-24 Grab Water	7428045

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

ELECTRONIC COPY TO	Kleinfelder	Attn: Mark Steele
ELECTRONIC COPY TO	Kleinfelder	Attn: Angela Vogt
ELECTRONIC COPY TO	Kleinfelder	Attn: Venelda Williams
ELECTRONIC COPY TO	Kleinfelder	Attn: Charlie Low
ELECTRONIC COPY TO	Kleinfelder	Attn: Paxton Wertz

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

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Analysis Report

Sample Description: MW-24 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7428045
LL Group # 1466592
Account # 12152

Project Name: Fairfax 26140

Collected: 04/11/2014 07:50 by TB

Submitted: 04/11/2014 18:00
Reported: 04/16/2014 13:33

Kleinfelder
1 Speen Street
Framingham MA 01701

26140

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	< 20	20	1
10335	Acrolein	107-02-8	< 100	100	1
10335	Acrylonitrile	107-13-1	< 20	20	1
10335	t-Amyl methyl ether	994-05-8	< 1	1	1
10335	Benzene	71-43-2	< 1	1	1
10335	Bromodichloromethane	75-27-4	< 1	1	1
10335	Bromoform	75-25-2	< 4	4	1
10335	Bromomethane	74-83-9	< 1	1	1
10335	2-Butanone	78-93-3	< 10	10	1
10335	t-Butyl alcohol	75-65-0	< 20	20	1
10335	n-Butylbenzene	104-51-8	< 5	5	1
10335	sec-Butylbenzene	135-98-8	< 5	5	1
10335	Carbon Tetrachloride	56-23-5	< 1	1	1
10335	Chlorobenzene	108-90-7	< 1	1	1
10335	Chloroethane	75-00-3	< 1	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	< 10	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	< 1	1	1
10335	Chloromethane	74-87-3	< 1	1	1
10335	Dibromochloromethane	124-48-1	< 1	1	1
10335	1,2-Dichlorobenzene	95-50-1	< 5	5	1
10335	1,3-Dichlorobenzene	541-73-1	< 5	5	1
10335	1,4-Dichlorobenzene	106-46-7	< 5	5	1
10335	1,1-Dichloroethane	75-34-3	< 1	1	1
10335	1,2-Dichloroethane	107-06-2	< 1	1	1
10335	1,1-Dichloroethene	75-35-4	< 1	1	1
10335	**cis-1,2-Dichloroethene**	156-59-2	**58**	1	1
10335	trans-1,2-Dichloroethene	156-60-5	< 1	1	1
10335	1,2-Dichloropropane	78-87-5	< 1	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	< 1	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	< 1	1	1
10335	Ethyl t-butyl ether	637-92-3	< 1	1	1
10335	Ethylbenzene	100-41-4	< 1	1	1
10335	**di-Isopropyl ether**	108-20-3	**1**	1	1
10335	Isopropylbenzene	98-82-8	< 5	5	1
10335	p-Isopropyltoluene	99-87-6	< 5	5	1
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**29**	1	1
10335	Methylene Chloride	75-09-2	< 3	3	1
10335	Naphthalene	91-20-3	< 5	5	1
10335	n-Propylbenzene	103-65-1	< 5	5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	< 1	1	1
10335	**Tetrachloroethene**	127-18-4	**3**	1	1
10335	**Toluene**	108-88-3	**1**	1	1
10335	1,1,1-Trichloroethane	71-55-6	< 1	1	1
10335	1,1,2-Trichloroethane	79-00-5	< 1	1	1
10335	**Trichloroethene**	79-01-6	**1**	1	1
10335	Trichlorofluoromethane	75-69-4	< 1	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	< 5	5	1

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Analysis Report

Sample Description: MW-24 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7428045
LL Group # 1466592
Account # 12152

Project Name: Fairfax 26140

Collected: 04/11/2014 07:50 by TB

Submitted: 04/11/2014 18:00
Reported: 04/16/2014 13:33

Kleinfelder
1 Speen Street
Framingham MA 01701

26140

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	1,3,5-Trimethylbenzene	108-67-8	< 5	5	1
10335	Vinyl Chloride	75-01-4	< 1	1	1
10335	Xylene (Total)	1330-20-7	< 1	1	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

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
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	Y141052AA	04/15/2014 12:07	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y141052AA	04/15/2014 12:07	Angela D Sneeringer	1

Quality Control Summary

Client Name: Kleinfelder Group Number: 1466592
Reported: 04/16/14 at 01:33 PM

Matrix QC may not be reported if insufficient sample or 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.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: Y141052AA	Sample number(s): 7428045							
Acetone	< 20	20.	ug/l	71	72	43-149	2	30
Acrolein	< 100	100.	ug/l	75	81	52-129	7	30
Acrylonitrile	< 20	20.	ug/l	82	83	62-120	2	30
t-Amyl methyl ether	< 1	1.	ug/l	89	90	75-120	1	30
Benzene	< 1	1.	ug/l	97	98	78-120	1	30
Bromodichloromethane	< 1	1.	ug/l	85	86	73-120	1	30
Bromoform	< 4	4.	ug/l	81	82	61-120	2	30
Bromomethane	< 1	1.	ug/l	66	70	58-120	5	30
2-Butanone	< 10	10.	ug/l	100	98	54-133	1	30
t-Butyl alcohol	< 20	20.	ug/l	98	101	75-120	3	30
n-Butylbenzene	< 5	5.	ug/l	90	89	68-120	2	30
sec-Butylbenzene	< 5	5.	ug/l	93	93	80-120	0	30
Carbon Tetrachloride	< 1	1.	ug/l	87	88	74-130	1	30
Chlorobenzene	< 1	1.	ug/l	100	100	80-120	0	30
Chloroethane	< 1	1.	ug/l	70	72	56-120	2	30
2-Chloroethyl Vinyl Ether	< 10	10.	ug/l	102	105	54-126	3	30
Chloroform	< 1	1.	ug/l	96	97	80-122	1	30
Chloromethane	< 1	1.	ug/l	106	106	63-120	0	30
Dibromochloromethane	< 1	1.	ug/l	82	82	72-120	0	30
1,2-Dichlorobenzene	< 5	5.	ug/l	101	102	80-120	1	30
1,3-Dichlorobenzene	< 5	5.	ug/l	98	99	80-120	1	30
1,4-Dichlorobenzene	< 5	5.	ug/l	100	101	80-120	1	30
1,1-Dichloroethane	< 1	1.	ug/l	101	101	80-120	0	30
1,2-Dichloroethane	< 1	1.	ug/l	95	95	65-135	0	30
1,1-Dichloroethene	< 1	1.	ug/l	92	93	76-124	1	30
cis-1,2-Dichloroethene	< 1	1.	ug/l	98	99	80-120	1	30
trans-1,2-Dichloroethene	< 1	1.	ug/l	96	98	80-120	2	30
1,2-Dichloropropane	< 1	1.	ug/l	103	103	80-120	0	30
cis-1,3-Dichloropropene	< 1	1.	ug/l	90	91	80-120	1	30
trans-1,3-Dichloropropene	< 1	1.	ug/l	85	85	76-120	0	30
Ethyl t-butyl ether	< 1	1.	ug/l	92	93	74-120	1	30
Ethylbenzene	< 1	1.	ug/l	94	94	79-120	1	30
di-Isopropyl ether	< 1	1.	ug/l	105	105	65-120	0	30
Isopropylbenzene	< 5	5.	ug/l	93	94	77-120	1	30
p-Isopropyltoluene	< 5	5.	ug/l	92	92	80-120	0	30
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	91	93	75-120	2	30
Methylene Chloride	< 3	3.	ug/l	89	89	80-120	1	30
Naphthalene	< 5	5.	ug/l	98	98	47-126	0	30
n-Propylbenzene	< 5	5.	ug/l	94	94	80-120	0	30
1,1,2,2-Tetrachloroethane	< 1	1.	ug/l	103	104	70-120	1	30
Tetrachloroethene	< 1	1.	ug/l	102	101	80-120	1	30
Toluene	< 1	1.	ug/l	97	97	80-120	0	30
1,1,1-Trichloroethane	< 1	1.	ug/l	82	83	66-126	2	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
Reported: 04/16/14 at 01:33 PM

Group Number: 1466592

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,1,2-Trichloroethane	< 1	1.	ug/l	103	102	80-120	0	30
Trichloroethene	< 1	1.	ug/l	98	100	80-120	2	30
Trichlorofluoromethane	< 1	1.	ug/l	81	79	65-130	1	30
1,2,4-Trimethylbenzene	< 5	5.	ug/l	94	94	74-120	0	30
1,3,5-Trimethylbenzene	< 5	5.	ug/l	93	93	74-120	1	30
Vinyl Chloride	< 1	1.	ug/l	92	91	63-120	1	30
Xylene (Total)	< 1	1.	ug/l	95	96	80-120	1	30

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: 8260 VOCs
Batch number: Y141052AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7428045	97	101	99	93
Blank	96	100	99	94
LCS	97	103	99	96
LCSD	97	102	99	97
Limits:	80-116	77-113	80-113	78-113

*- 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.

Lancaster Laboratories

Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 12152
Group #: 1466592 Sample #: 7428045

Client: Fairfax Petroleum
Acct. #:
Project Name/#: 26140
PWSID #:
Project Manager: Mark C. Steele
P.O. #: 5114-294572
Sampler: Tim Boswell
Quote #:
Name of State where samples were collected: Virginia

For Lab Use Only
FSC:
SCR#:

Preservation Codes: H=HCl T=Thiosulfate N=HNO3 B=NaOH S=H2SO4 O=Other

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water (Potable / NPDES)	Other	Total # of Containers	Full List VOCs (H)	Remarks	Temperature of samples upon receipt (if requested)
MW-24	4/11/14	0750	X			X		3	X		

Cooler

Turnaround Time Requested (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed: 4/16/14
Rush results requested by (please circle): Phone Fax E-mail
Phone #: Fax #:
E-mail address:

Data Package Options (please circle if required)
Type I (validation/NJ reg) TX-TRRP-13
Type II (Tier II) MA MCP CT RCP
Type III (Reduced NJ)
Type IV (CLP SOW)
Type VI (Raw Data Only)

SDG Complete? Yes No

State-specific QC (MS/MSD/Dup)? Yes No
(If yes, indicated QC sample and submit triplicate volume)
Internal COC required? Yes No

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	4/11/14	1120	cooler vwm	4/11/14	1120
[signature]	4/11/14	1315	[signature]	4/11/14	1315
			[signature]	4/11/14	1800

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

1 of 1

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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)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

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 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.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥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.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:	Prepared for:
Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601	Kleinfelder 1 Speen Street Framingham MA 01701

April 16, 2014

Project: Fairfax 26140

Submittal Date: 04/11/2014
Group Number: 1466593
PO Number: 51141-294573
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
MW-21S Grab Water	7428046
MW-21I Grab Water	7428047
MW-22 Grab Water	7428048

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

ELECTRONIC COPY TO	Kleinfelder	Attn: Mark Steele
ELECTRONIC COPY TO	Kleinfelder	Attn: Angela Vogt
ELECTRONIC COPY TO	Kleinfelder	Attn: Venelda Williams
ELECTRONIC COPY TO	Kleinfelder	Attn: Charlie Low
ELECTRONIC COPY TO	Kleinfelder	Attn: Paxton Wertz

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: MW-21S Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7428046
LL Group # 1466593
Account # 12152

Project Name: Fairfax 26140

Collected: 04/11/2014 09:00 by TB

Submitted: 04/11/2014 18:00
Reported: 04/16/2014 13:34

Kleinfelder
1 Speen Street
Framingham MA 01701

26101

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	**t-Amyl methyl ether**	994-05-8	**78**	10	10
10335	Benzene	71-43-2	< 10	10	10
10335	**t-Butyl alcohol**	75-65-0	**6,200**	200	10
10335	Ethyl t-butyl ether	637-92-3	< 10	10	10
10335	Ethylbenzene	100-41-4	< 10	10	10
10335	**di-Isopropyl ether**	108-20-3	**79**	10	10
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**7,500**	100	100
10335	Toluene	108-88-3	< 10	10	10
10335	Xylene (Total)	1330-20-7	< 10	10	10

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

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
10335	BTEX + 5 Oxys	SW-846 8260B	1	Y141052AA	04/15/2014 14:15	Angela D Sneeringer	10
10335	BTEX + 5 Oxys	SW-846 8260B	1	Y141052AA	04/15/2014 14:36	Angela D Sneeringer	100
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y141052AA	04/15/2014 14:15	Angela D Sneeringer	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y141052AA	04/15/2014 14:36	Angela D Sneeringer	100

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Analysis Report

Sample Description: MW-21I Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7428047
LL Group # 1466593
Account # 12152

Project Name: Fairfax 26140

Collected: 04/11/2014 08:30 by TB

Kleinfelder
1 Speen Street
Framingham MA 01701

Submitted: 04/11/2014 18:00
Reported: 04/16/2014 13:34

26102

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	**t-Amyl methyl ether**	994-05-8	**28**	2	2
10335	Benzene	71-43-2	< 2	2	2
10335	**t-Butyl alcohol**	75-65-0	**1,700**	40	2
10335	Ethyl t-butyl ether	637-92-3	< 2	2	2
10335	Ethylbenzene	100-41-4	< 2	2	2
10335	**di-Isopropyl ether**	108-20-3	**31**	2	2
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**2,500**	20	20
10335	Toluene	108-88-3	< 2	2	2
10335	Xylene (Total)	1330-20-7	< 2	2	2

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

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
10335	BTEX + 5 Oxys	SW-846 8260B	1	Y141052AA	04/15/2014 14:58	Angela D Sneeringer	2
10335	BTEX + 5 Oxys	SW-846 8260B	1	Y141052AA	04/15/2014 15:19	Angela D Sneeringer	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y141052AA	04/15/2014 14:58	Angela D Sneeringer	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y141052AA	04/15/2014 15:19	Angela D Sneeringer	20

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Analysis Report

Sample Description: MW-22 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7428048
LL Group # 1466593
Account # 12152

Project Name: Fairfax 26140

Collected: 04/11/2014 07:10 by TB

Submitted: 04/11/2014 18:00
Reported: 04/16/2014 13:34

Kleinfelder
1 Speen Street
Framingham MA 01701

26103

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	t-Amyl methyl ether	994-05-8	< 1	1	1
10335	Benzene	71-43-2	< 1	1	1
10335	t-Butyl alcohol	75-65-0	< 20	20	1
10335	Ethyl t-butyl ether	637-92-3	< 1	1	1
10335	Ethylbenzene	100-41-4	< 1	1	1
10335	di-Isopropyl ether	108-20-3	< 1	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	< 1	1	1
10335	Toluene	108-88-3	< 1	1	1
10335	Xylene (Total)	1330-20-7	< 1	1	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

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
10335	BTEX + 5 Oxys	SW-846 8260B	1	Y141052AA	04/15/2014 12:28	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y141052AA	04/15/2014 12:28	Angela D Sneeringer	1

Quality Control Summary

Client Name: Kleinfelder Group Number: 1466593
Reported: 04/16/14 at 01:34 PM

Matrix QC may not be reported if insufficient sample or 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.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: Y141052AA	Sample number(s): 7428046-7428048							
t-Amyl methyl ether	< 1	1.	ug/l	89	90	75-120	1	30
Benzene	< 1	1.	ug/l	97	98	78-120	1	30
t-Butyl alcohol	< 20	20.	ug/l	98	101	75-120	3	30
Ethyl t-butyl ether	< 1	1.	ug/l	92	93	74-120	1	30
Ethylbenzene	< 1	1.	ug/l	94	94	79-120	1	30
di-Isopropyl ether	< 1	1.	ug/l	105	105	65-120	0	30
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	91	93	75-120	2	30
Toluene	< 1	1.	ug/l	97	97	80-120	0	30
Xylene (Total)	< 1	1.	ug/l	95	96	80-120	1	30

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: 8260 VOCs
Batch number: Y141052AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7428046	97	100	98	93
7428047	96	99	98	92
7428048	98	100	99	93
Blank	96	100	99	94
LCS	97	103	99	96
LCSD	97	102	99	97
Limits:	80-116	77-113	80-113	78-113

*- 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.

Lancaster Laboratories

Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 12152
Group #: 1466593 Sample #: 7428046-48

Client: Fairfax Petroleum
Acct. #:
Project Name/#: 26140
PWSID #:
Project Manager: Mark C. Steele
P.O. #: 5141-294573
Sampler: Tim Boswell
Quote #:
Name of State where samples were collected: Virginia

For Lab Use Only
FSC:
SCR#:

Preservation Codes
H=HCl T=Thiosulfate
N=HNO3 B=NaOH
S=H2SO4 O=Other

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water (Potable / NPDES)	Other	Total # of Containers	BTEX + Oxygenates (TBA, TAME, ETBE, DIPE, MTBE) H								Remarks	Temperature of samples upon receipt (if requested)
MW-21S	4/11/14	0900	X			X		3	X									
MW-21I	4/11/14	0830	X			X		3	X									
MW-22	4/11/14	0710	X			X		3	X								Cooler	

Turnaround Time Requested (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed: 4/16/14
Rush results requested by (please circle): Phone Fax E-mail
Phone #: Fax #:
E-mail address:

Data Package Options (please circle if required)
Type I (validation/NJ reg) TX-TRRP-13
Type II (Tier II) MA MCP CT RCP
Type III (Reduced NJ)
Type IV (CLP SOW)
Type VI (Raw Data Only)

SDG Complete? Yes No

State-specific QC (MS/MSD/Dup)? Yes No
(If yes, indicated QC sample and submit triplicate volume)
Internal COC required? Yes No

Relinquished by:	Date	Time	Received by:	Date	Time
	4/11/14	1120	Cooler non	4/11/14	1120
	4/11/14	1315		4/11/14	1315
				4/11/14	1800

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

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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)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

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 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.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥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.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:	Prepared for:
Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601	Kleinfelder 1 Speen Street Framingham MA 01701

April 16, 2014

Project: Fairfax 26140

Submittal Date: 04/11/2014
Group Number: 1466594
PO Number: 51141-294573
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
MW-20D(75) Grab Water	7428049
MW-20D(95) Grab Water	7428050
MW-20D(110) Grab Water	7428051
MW-20D(138) Grab Water	7428052

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

ELECTRONIC COPY TO	Kleinfelder	Attn: Mark Steele
ELECTRONIC COPY TO	Kleinfelder	Attn: Angela Vogt
ELECTRONIC COPY TO	Kleinfelder	Attn: Venelda Williams
ELECTRONIC COPY TO	Kleinfelder	Attn: Charlie Low
ELECTRONIC COPY TO	Kleinfelder	Attn: Paxton Wertz

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: MW-20D(75) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7428049
LL Group # 1466594
Account # 12152

Project Name: Fairfax 26140

Collected: 04/11/2014 09:40 by TB

Submitted: 04/11/2014 18:00
Reported: 04/16/2014 13:05

Kleinfelder
1 Speen Street
Framingham MA 01701

261-1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	t-Amyl methyl ether	994-05-8	< 1	1	1
10335	Benzene	71-43-2	< 1	1	1
10335	**t-Butyl alcohol**	75-65-0	**32**	20	1
10335	Ethyl t-butyl ether	637-92-3	< 1	1	1
10335	Ethylbenzene	100-41-4	< 1	1	1
10335	**di-Isopropyl ether**	108-20-3	**2**	1	1
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**72**	1	1
10335	Toluene	108-88-3	< 1	1	1
10335	Xylene (Total)	1330-20-7	< 1	1	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

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
10335	BTEX + 5 Oxys	SW-846 8260B	1	Y141052AA	04/15/2014 12:50	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y141052AA	04/15/2014 12:50	Angela D Sneeringer	1

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Analysis Report

Sample Description: MW-20D(95) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7428050
LL Group # 1466594
Account # 12152

Project Name: Fairfax 26140

Collected: 04/11/2014 09:45 by TB

Submitted: 04/11/2014 18:00
Reported: 04/16/2014 13:05

Kleinfelder
1 Speen Street
Framingham MA 01701

261-2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	t-Amyl methyl ether	994-05-8	< 1	1	1
10335	Benzene	71-43-2	< 1	1	1
10335	**t-Butyl alcohol**	75-65-0	**24**	20	1
10335	Ethyl t-butyl ether	637-92-3	< 1	1	1
10335	Ethylbenzene	100-41-4	< 1	1	1
10335	**di-Isopropyl ether**	108-20-3	**1**	1	1
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**55**	1	1
10335	Toluene	108-88-3	< 1	1	1
10335	Xylene (Total)	1330-20-7	< 1	1	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

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
10335	BTEX + 5 Oxys	SW-846 8260B	1	Y141052AA	04/15/2014 13:11	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y141052AA	04/15/2014 13:11	Angela D Sneeringer	1

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Analysis Report

Sample Description: MW-20D(110) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7428051
LL Group # 1466594
Account # 12152

Project Name: Fairfax 26140

Collected: 04/11/2014 09:50 by TB

Submitted: 04/11/2014 18:00
Reported: 04/16/2014 13:05

Kleinfelder
1 Speen Street
Framingham MA 01701

261-3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	t-Amyl methyl ether	994-05-8	< 1	1	1
10335	Benzene	71-43-2	< 1	1	1
10335	t-Butyl alcohol	75-65-0	< 20	20	1
10335	Ethyl t-butyl ether	637-92-3	< 1	1	1
10335	Ethylbenzene	100-41-4	< 1	1	1
10335	di-Isopropyl ether	108-20-3	< 1	1	1
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**37**	1	1
10335	Toluene	108-88-3	< 1	1	1
10335	Xylene (Total)	1330-20-7	< 1	1	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

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
10335	BTEX + 5 Oxys	SW-846 8260B	1	Y141052AA	04/15/2014 13:32	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y141052AA	04/15/2014 13:32	Angela D Sneeringer	1

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Analysis Report

Sample Description: MW-20D(138) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7428052
LL Group # 1466594
Account # 12152

Project Name: Fairfax 26140

Collected: 04/11/2014 09:55 by TB

Submitted: 04/11/2014 18:00
Reported: 04/16/2014 13:05

Kleinfelder
1 Speen Street
Framingham MA 01701

261-4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	t-Amyl methyl ether	994-05-8	< 1	1	1
10335	Benzene	71-43-2	< 1	1	1
10335	t-Butyl alcohol	75-65-0	< 20	20	1
10335	Ethyl t-butyl ether	637-92-3	< 1	1	1
10335	Ethylbenzene	100-41-4	< 1	1	1
10335	di-Isopropyl ether	108-20-3	< 1	1	1
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**32**	1	1
10335	Toluene	108-88-3	< 1	1	1
10335	Xylene (Total)	1330-20-7	< 1	1	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

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
10335	BTEX + 5 Oxys	SW-846 8260B	1	Y141052AA	04/15/2014 13:54	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y141052AA	04/15/2014 13:54	Angela D Sneeringer	1

Quality Control Summary

Client Name: Kleinfelder Group Number: 1466594
Reported: 04/16/14 at 01:05 PM

Matrix QC may not be reported if insufficient sample or 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.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: Y141052AA	Sample number(s): 7428049-7428052							
t-Amyl methyl ether	< 1	1.	ug/l	89	90	75-120	1	30
Benzene	< 1	1.	ug/l	97	98	78-120	1	30
t-Butyl alcohol	< 20	20.	ug/l	98	101	75-120	3	30
Ethyl t-butyl ether	< 1	1.	ug/l	92	93	74-120	1	30
Ethylbenzene	< 1	1.	ug/l	94	94	79-120	1	30
di-Isopropyl ether	< 1	1.	ug/l	105	105	65-120	0	30
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	91	93	75-120	2	30
Toluene	< 1	1.	ug/l	97	97	80-120	0	30
Xylene (Total)	< 1	1.	ug/l	95	96	80-120	1	30

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: 8260 VOCs
Batch number: Y141052AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7428049	98	101	98	93
7428050	98	100	98	93
7428051	98	100	98	92
7428052	98	101	98	93
Blank	96	100	99	94
LCS	97	103	99	96
LCSD	97	102	99	97
Limits:	80-116	77-113	80-113	78-113

*- 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.

Lancaster Laboratories

Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 12152
Group #: 1466594 Sample #: 7428049-S2

Client: Fairfax Petroleum
Acct. #:
Project Name/#: 26140
PWSID #:
Project Manager: Mark C. Steele
P.O. #: 51141-294573
Sampler: Tim Boswell
Quote #:
Name of State where samples were collected: Virginia

For Lab Use Only
FSC:
SCR#:

Preservation Codes
H=HCl T=Thiosulfate
N=HNO3 B=NaOH
S=H2SO4 O=Other

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water (Potable / NPDES)	Matrix: Other	Total # of Containers	Analyses Requested / Preservation Codes: BTEX + Oxygenates (TBA, TAME, ETBE, DIPE, MTBE) H									Remarks	Temperature of samples upon receipt (if requested)
MW-20D (75)	4/11/14	0940	X			X		3	X										
MW-20D (95)	4/11/14	0945	X			X		3	X									Coolers	
MW-20D (110)	4/11/14	0950	X			X		3	X										
MW-20D (138)	4/11/14	0955	X			X		3	X										

73

Turnaround Time Requested (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed: 4/16/14
Rush results requested by (please circle): Phone Fax E-mail
Phone #: Fax #:
E-mail address:

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	4/11/14	1120	Cooler room	4/11/14	1120
[signature]	4/11/14	1315	[signature]	4/11/14	1315
			[signature]	4/11/14	1800

Data Package Options (please circle if required)
Type I (validation/NJ reg) TX-TRRP-13
Type II (Tier II) MA MCP CT RCP
Type III (Reduced NJ)
Type IV (CLP SOW)
Type VI (Raw Data Only)

SDG Complete? Yes No

State-specific QC (MS/MSD/Dup)? Yes No
(If yes, indicated QC sample and submit triplicate volume)
Internal COC required? Yes No

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

1 of 1

eurofins | Lancaster Laboratories Environmental

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)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

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 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.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥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.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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APPENDIX C
Accutest Analysis Report – Soil Vapor

New Jersey
ACCUTEST LABORATORIES

04/11/14

Technical Report for

Kleinfelder

Fairfax#26140, 9901 Georgetown Pike, Great Falls, VA

PO#51141-293435

Accutest Job Number: JB63342

Sampling Date: 03/28/14

Report to:

Kleinfelder
1340 Charwood Road
Suite I
Hanover, MD 21076

ATTN: Kristina Braun

Total number of pages in report: **14**

Nancy Cole
Laboratory Director

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

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Accutest Laboratories

Sample Summary

Kleinfelder

Job No: JB63342

Fairfax#26140, 9901 Georgetown Pike, Great Falls, VA
Project No: PO#51141-293435

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB63342-1	03/28/14	08:16	TB	03/29/14	AIR	Soil Vapor Comp.	VP-1
JB63342-2	03/28/14	09:14	TB	03/29/14	AIR	Soil Vapor Comp.	VP-2S
JB63342-3	03/28/14	09:55	TB	03/29/14	AIR	Soil Vapor Comp.	VP-2D
JB63342-4	03/28/14	08:44	TB	03/29/14	AIR	Soil Vapor Comp.	VP-3

Summary of Hits

Job Number: JB63342
Account: Kleinfelder
Project: Fairfax#26140, 9901 Georgetown Pike, Great Falls, VA
Collected: 03/28/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB63342-1	**VP-1**					
No hits reported in this sample.						
JB63342-2	**VP-2S**					
No hits reported in this sample.						
JB63342-3	**VP-2D**					
No hits reported in this sample.						
JB63342-4	**VP-3**					
No hits reported in this sample.						

New Jersey

ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	VP-1		
Lab Sample ID:	JB63342-1	**Date Sampled:**	03/28/14
Matrix:	AIR - Soil Vapor Comp. Summa ID: LA 2175	**Date Received:**	03/29/14
Method:	TO-15	**Percent Solids:**	n/a
Project:	Fairfax#26140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W40206.D	1	04/04/14	YMH	n/a	n/a	V3W1524
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
71-43-2	78.11	Benzene	ND	0.80	0.084	ppbv		ND	2.6	0.27	ug/m3
108-88-3	92.14	Toluene	ND	0.80	0.081	ppbv		ND	3.0	0.31	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.081	ppbv		ND	3.5	0.35	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.80	0.077	ppbv		ND	3.5	0.33	ug/m3
	106.2	m,p-Xylene	ND	0.80	0.13	ppbv		ND	3.5	0.56	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.077	ppbv		ND	3.5	0.33	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.068	ppbv		ND	2.9	0.25	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		65-128%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VP-2S		
Lab Sample ID:	JB63342-2	**Date Sampled:**	03/28/14
Matrix:	AIR - Soil Vapor Comp. Summa ID: A359	**Date Received:**	03/29/14
Method:	TO-15	**Percent Solids:**	n/a
Project:	Fairfax#26140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W40208.D	1	04/05/14	YMH	n/a	n/a	V3W1524
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
71-43-2	78.11	Benzene	ND	0.80	0.084	ppbv		ND	2.6	0.27	ug/m3
108-88-3	92.14	Toluene	ND	0.80	0.081	ppbv		ND	3.0	0.31	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.081	ppbv		ND	3.5	0.35	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.80	0.077	ppbv		ND	3.5	0.33	ug/m3
	106.2	m,p-Xylene	ND	0.80	0.13	ppbv		ND	3.5	0.56	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.077	ppbv		ND	3.5	0.33	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.068	ppbv		ND	2.9	0.25	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	76%		65-128%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VP-2D		
Lab Sample ID:	JB63342-3	**Date Sampled:**	03/28/14
Matrix:	AIR - Soil Vapor Comp. Summa ID: A070	**Date Received:**	03/29/14
Method:	TO-15	**Percent Solids:**	n/a
Project:	Fairfax#26140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W40209.D	1	04/05/14	YMH	n/a	n/a	V3W1524
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
71-43-2	78.11	Benzene	ND	0.80	0.084	ppbv		ND	2.6	0.27	ug/m3
108-88-3	92.14	Toluene	ND	0.80	0.081	ppbv		ND	3.0	0.31	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.081	ppbv		ND	3.5	0.35	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.80	0.077	ppbv		ND	3.5	0.33	ug/m3
	106.2	m,p-Xylene	ND	0.80	0.13	ppbv		ND	3.5	0.56	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.077	ppbv		ND	3.5	0.33	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.068	ppbv		ND	2.9	0.25	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	83%		65-128%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VP-3		
Lab Sample ID:	JB63342-4	**Date Sampled:**	03/28/14
Matrix:	AIR - Soil Vapor Comp. Summa ID: LA 2961	**Date Received:**	03/29/14
Method:	TO-15	**Percent Solids:**	n/a
Project:	Fairfax#26140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W40210.D	1	04/05/14	YMH	n/a	n/a	V3W1524
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
71-43-2	78.11	Benzene	ND	0.80	0.084	ppbv		ND	2.6	0.27	ug/m3
108-88-3	92.14	Toluene	ND	0.80	0.081	ppbv		ND	3.0	0.31	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.081	ppbv		ND	3.5	0.35	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.80	0.077	ppbv		ND	3.5	0.33	ug/m3
	106.2	m,p-Xylene	ND	0.80	0.13	ppbv		ND	3.5	0.56	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.077	ppbv		ND	3.5	0.33	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.068	ppbv		ND	2.9	0.25	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	81%		65-128%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

New Jersey
ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log

AIR

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Air Sampling Field Data Sheet

FED-EX Tracking # 7983 6787 4890 | Bottle Order Control # MV-3/25/2014-11 | PAGE 1 OF 1

Lab Quote # | Lab Job # JB63342

Client / Reporting Information

Company Name: Klenfelder

Address: 1340 Charwood Rd. Suite I

City: Hanover, State: MD, Zip: 21076

Project Contact: Mark Steele, E-mail: msteele@klenfelder.com

Phone #: 410-850-0434, Fax #:

Sampler(s) Name(s): Tim Boswell

Project Name: Fairfax 26140

Street: 9901 Georgetown Pike

City: Great Falls, State: VA

Project #:

Client Purchase Order #: 51141-293435

Weather Parameters

Temperature (Fahrenheit) Start: ~50° Maximum: ~55° Stop: Minimum:

Atmoshpheric Pressure (inches of Hg) Start: Maximum: Stop: Minimum:

Other weather comment:

Requested Analysis

Lab Sample #	Field ID / Point of Collection	Air Type: Indoor(I) Soil Vap(SV) Ambient(A)	Sampling Equipment Info: Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Standard TO-15 Reporting List (SUMMA)		
-1	VP-1	SV	9607	6L	683	3/28/14	0716	30"		TB	3/28/14	0816	5"		TB	X		
-2	VP-25	SV	A359	6L	100	3/28/14	0814	30"		TB	3/28/14	0914	5"		TB	X		
-3	VP-20	SV	A070	6L	379	3/28/14	0855	30"		TB	3/28/14	0955	5"		TB	X		
-4	VP-3	SV	5112	6L	479	3/28/14	0744	30"		TB	3/28/14	0844	8"		TB	X		

Turnaround Time (Business days)

Standard - 15 Days: X; 10 Day; 5 Day; 3 Day; 2 Day; 1 Day; Other

Approved By:

Date:

Data Deliverable Information

All NJDEP TO-15 is mandatory Full T1

Comm A; Comm B; Reduced T2; Full T1; Other:

Comments / Remarks

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Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Laboratory	Date/Time	Received By	Relinquished By	Date Time	Received By
1 Troy Manowski	3/26/14 13:45	1	2	3-27-14	2
Relinquished By: 3	Date Time: 3/28/14 1230	Received By: 3 Fedex - pickup	Relinquished By: 4 Fed Ex	Date Time: 3/29/14 1030	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #		

TA JK

D.G.

JB63342: Chain of Custody

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Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB63342 **Client:** **Project:**

Date / Time Received: 3/29/2014 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted):

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:			
4. No. Coolers:	0		

Quality Control _Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB63342: Chain of Custody
Page 2 of 3

ACCUTEST LABORATORIES

Job Change Order: JB63342

Requested Date:	4/3/2014	**Received Date:**	3/29/2014
Account Name:	Kleinfelder	**Due Date:**	4/14/2014
Project Description:	Fairfax#26140, 9901 Georgetown Pike, Great Falls,	**Deliverable:**	COMMA
CSR:	MartyV	**TAT (Days):**	14

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Sample #: JB63342-All

Dept:

Change:
Change test to VTO15BTXM

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Above Changes Per: Mark Steele

Date/Time: 4/3/2014 6:07:58 PM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Summa Canister and Flow Controller Log

Job Number: JB63342
Account: GSCMD Kleinfelder
Project: Fairfax#26140, 9901 Georgetown Pike, Great Falls, VA
Received: 03/29/14

SUMMA CANISTERS

Shipping							Receiving						
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
LA 2175	6	29.4	03/26/14	RC	CP6894	3W39731.D	JB63342-1	03/31/14	FZ	5			1
A359	6	29.4	03/26/14	RC	CP6913	W46283.D	JB63342-2	03/31/14	FZ	2.5			1
A070	6	29.4	03/26/14	RC	CP6913	W46283.D	JB63342-3	03/31/14	FZ	3			1
LA 2961	6	29.4	03/26/14	RC	CP6913	W46283.D	JB63342-4	03/31/14	FZ	2.5			1

FLOW CONTROLLERS / OTHER

Shipping					Receiving			
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min	Equipment Type
FC100	03/26/14	RC	75	1	03/31/14	RC	75.8	Flow Controller
FC379	03/26/14	RC	75	1	03/31/14	RC	75.6	Flow Controller
FC479	03/26/14	RC	75	1	03/31/14	RC	75.8	Flow Controller
FC683	03/26/14	RC	75	1	03/31/14	RC	76.4	Flow Controller

Accutest Bottle Order(s):
MV-3/25/2014-11

Prep Date	Room Temp(F)	Bar Pres "Hg
03/26/14	70	29.92