VIA ELECTRONIC MAIL

August 1, 2014

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

RE: Second 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 Second Quarter 2014.

Fairfax Petroleum and Kleinfelder appreciate the continued guidance of the DEQ in the successful completion of this project. Please feel free to contact us at (410) 850-0404 should you have questions.

Sincerely,
Kleinfelder, Inc.

Paxton Wertz
Geologist

Mark C. Steele
Senior Program Manager

Attachment

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

CAP MONITORING REPORT – SECOND 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:	April 16 through July 11, 2014
Last Report:	CAP Monitoring Report, April 30, 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, MW-23D, MW-24, W-1 through W-7, PW-1, and RW-1 (**Figure 2** and **Table 1**)
Soil Vapor Monitoring Points	VP-1, VP-2S, VP-2D, and VP-3
Site Geology:	Schist saprolite grading to competent schist bedrock
Groundwater Flow Directions:	Southeast / South

ACTIVITIES COMPLETED THIS PERIOD

Monitoring Well Installation

On April 28 through May 2, 2014, Kleinfelder personnel oversaw the installation of monitoring well MW-23D to the south of the Site. The well was installed to provide a deep monitoring point in the vicinity of monitoring wells MW-10 and MW-24 (**Figure 2**). Prior to drilling, the borehole was cleared to five feet below grade using airknife / vacuum excavation to verify the absence of utilities. The boring was advanced to the top of competent rock with hollow stem augers and air rotary drilling utilizing a 6-inch drill bit was used to advance the boring to the terminal depth of 100 feet below grade. A 2-inch diameter 0.020-inch slot schedule 40 polyvinyl chloride (PVC) well screen was installed from approximately 90 to 100 feet below grade and brought to grade with 2-inch schedule 40 PVC well riser. The annulus of the well was backfilled with a number 2 sand pack to approximately three feet above the top of the well screen. Approximately five feet of hydrated bentonite was installed above the sand pack, with the remaining annulus filled with a Portland cement / bentonite slurry. The monitoring well was completed in an 8-inch road box set flush to grade in a concrete pad. Following completion, the monitoring well was developed and surveyed into the well network. The monitoring well boring and construction log is included as **Appendix A**.

CMT Development and Sampling

On April 21, 2014 Kleinfelder personnel developed the continuous multichannel tubing (CMT) intervals installed in monitoring well MW-17D. A Solinst® micro double valve pump with a three eights of an inch diameter was used to surge and develop the CMT intervals. The CMT intervals were purged until the interval ceased producing water or until the purged water ran clear.

On April 25, 2014, Kleinfelder personnel conducted groundwater gauging and sampling of the CMT intervals of monitoring well MW-17D. Prior to collecting groundwater samples each interval was gauged with a water level meter. A Solinst® micro double valve pump was used to purge the CMT intervals. Upon purging approximately three CMT interval volumes, groundwater samples were collected for laboratory analysis. Groundwater samples were submitted under chain of custody protocol to Lancaster Laboratories for analysis of volatile organic compounds (VOCs) using Environmental Protection Agency (EPA) Method 8260B.

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The results of the April 25, 2014 CMT groundwater samples are summarized in **Table 2**, and shown on **Figure 4**. The Lancaster Laboratories Analysis Report from the April 25, 2014 CMT groundwater sampling is included in **Appendix B**.

The results of the CMT sampling conducted on April 25, 2014 were inconsistent with the previously collected discrete interval groundwater sampling results collected from monitoring well MW-17D. Subsequent evaluation of the sampling procedure indicated that it is necessary to pump, rather than gravity-feed the decontamination solution through the sampling apparatus.

On June 10 and 11, 2014, Kleinfelder personnel conducted groundwater gauging and confirmatory sampling of the CMT intervals of monitoring well MW-17D (**Table 1**). Prior to collecting groundwater samples each interval was gauged with a water level meter. A Solinst® micro double valve pump was used to purge the CMT intervals. Upon purging approximately three CMT interval volumes, groundwater samples were collected for laboratory analysis. Three of the CMT intervals were dewatered prior to producing a single interval volume (CMT-2, CMT-5, CMT-6, and CMT-7). These intervals were purged until they could no longer produce water, were allowed to recharge and then were sampled. In the case of CMT-7, the interval was purged multiple times and allowed to recharge overnight with the sample collected the following day.

In order to assess the effectiveness of the revised decontamination procedure, two equipment blanks, EB-1 and EB-2, were collected after the decontamination procedure between CMT intervals CMT-7 and CMT-6 [MW-17D (147) and MW-17D (129.75)]; and CMT intervals CMT-6 and CMT-5 [MW-17D (129.75) and MW-17D (117)], respectively. Groundwater samples were submitted under chain of custody protocol to Lancaster Laboratories for analysis of VOCs via EPA Method 8260B. The results of the June 10 and 11, 2014 CMT groundwater samples are summarized in **Table 2**, and shown on **Figure 4**. The Lancaster Laboratories Analysis Report from the June 10 and 11, 2014 CMT groundwater sampling, including the equipment blank results, is included in **Appendix B**.

Monitoring and Bedrock Well Gauging and Sampling

Groundwater gauging and sampling was conducted on new and existing monitoring wells during the Second Quarter 2014. Groundwater samples were submitted under chain of custody protocol to Lancaster Laboratories for analysis of VOCs via EPA Method 8260B.

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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 located on the Great Falls Shopping Center were submitted for analysis 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 petroleum related constituents in the shallow and deep monitoring wells is summarized in **Tables 2** and **3** and the analytical data for chlorinated VOCs is summarized in **Table 4**. The groundwater analytical data and the June 19, 2014 shallow monitoring well potentiometric surface is depicted on **Figure 3**. The June 19, 2014 deep monitoring well potentiometric surface is depicted on **Figure 4**. A MTBE isoconcentration map of the analytical results from the shallow wells is included as **Figure 5**. A MTBE isoconcentration map of the analytical results from the deep wells is included as **Figure 6**. The Lancaster Laboratories Analysis Reports are included in **Appendix B**.

May 19 and June 10, 2014

On May 19, 2014, Kleinfelder personnel gauged and sampled the newly installed monitoring well MW-23D. On June 10, 2014, a confirmatory sample was collected from monitoring well MW-23D. The monitoring well was purged via three volume purge methodology during each sampling event. Additional monitoring of monitoring well MW-23D was conducted during the quarterly groundwater sampling event conducted June 18 through 20, 2014 as described below. Samples collected were submitted under chain of custody protocol to Lancaster for analysis of full list VOCs using EPA Method 8260B. Groundwater monitoring and analytical data for monitoring well MW-23D is summarized in **Table 3** and depicted on **Figure 4**.

June 18, 19, and 20, 2014

Wells Gauged and Sampled:	MW-1, MW-2, MW-6D, MW-7, MW-10, through MW-24 SVE-2, W-1, W-2, W-6, W-7, GFSTMW-1, GFSTPW-1, 805 Constellation, and PW-1
Wells Gauged Only:	MW-3, MW-5, MW-6S, MW-9, W-3 through W-5, GFSCMW-2, GFSCMW-3, GFGPMW-5, and SVE-2
Liquid Phase Hydrocarbon:	None detected
Minimum/Maximum Depth to Water:	20.01 (MW-6S) / 41.11 (MW-18D) feet
Shallow Groundwater Flow Direction:	Southeast / South

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Shallow Hydraulic Gradient – Southeast:	0.028 ft/ft between MW-14 and W-7
Deep Groundwater Flow Direction:	Southeast / South
Deep Hydraulic Gradient – Southeast:	0.029 ft/ft between PW-1 and MW-20D

On June 18 through 20, 2014, 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 June 19, 2014 and monitoring wells MW-3 and GFGPMW-5 were dry. Four monitoring wells associated former unrelated environmental cases (GFGPMW-4, GFGPMW-5, GFSCMW-2, and GFSCMW-3) were also gauged during the event. A fifth shallow monitoring well (22 feet total depth), which is unrelated to PC #2010-3028, was located at the Great Falls Swim and Tennis Club was gauged and also sampled (GFSTMW-1). 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.

July 9 and 10, 2014

On July 9, 2014, 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. HydraSleeve™ samplers were used in this sampling event to monitor dissolved phase petroleum hydrocarbons pending the installation of nested monitoring wells within MW-20D. On July 10, 2014, Kleinfelder personnel completed groundwater monitoring activities of monitoring well MW-20D. 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. Samples collected were submitted under chain of custody protocol to Lancaster for analysis of petroleum constituents using EPA Method 8260B.

Additionally, two out of service potable wells were sampled at the direction of the VADEQ. The former potable well located at the Great Falls Swim and Tennis Club, identified as GFSTPW-1, was located using a metal detector. Due to the presence of chlorinated VOCs the well at the Great Falls Swim and Tennis Club was taken out of service in 1997. In March 2014, a 260-foot deep potable well was installed as part of the construction of new residence at 805 Constellation Drive and the potable well has not yet been put into service. The well locations are depicted on **Figure 1**. The wells were sampled via low flow, parameter stabilization methodology and the samples were submitted for analysis of full list VOCs using EPA Method 8260B. The sample intervals for each well was determined based on the available well construction logs.

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The GFTSPW-1 well is an open bedrock interval from approximately 73 to 100 feet below grade and the sampling pump was set at approximately 85 feet below grade to sample this well. The 805 Constellation potable well completion report indicated five water bearing zones at depths from 97 to 237 feet below grade. The three uppermost water bearing zones were selected for the collection of groundwater samples. Petroleum related constituents were not detected in the submitted groundwater samples from these wells (**Table 3**). The results were provided to the property owners and the VADEQ on July 23, 2014.

Aquifer Testing

On April 29, 2014, an aquifer step test was completed to assess yield and pumping rates for the design of an aquifer test. From May 13 through 15, 2014, a 48-hour pump test was completed on RW-1. The methodology and results of the aquifer testing were submitted under separate cover on August 1, 2014.

SECOND QUARTER 2014 REMEDIAL ACTIVITIES

Following connection of the remedial system to the local power supply by Dominion Virginia Power, the soil vapor extraction (SVE) system was started on June 17, 2014. The SVE remedial activities conducted during this period are summarized below.

Soil Vapor Extraction System

Percent Run Time

Second Quarter 2014:	100% (June 17, 2104 through July 10, 2014)
Technique:	Soil vapors are extracted from six extraction wells [Soil Vapor Extraction (SVE) well SVE-1 through SVE-5, and monitoring well MW-14] utilizing a rotary claw pump.
Permits:	Permit exemption granted on January 24, 2014
O&M Visit Frequency:	Biweekly
Discharge Monitoring Frequency:	Monthly
Extraction Well(s) Open:	SVE-1 through SVE-5, and MW-14
Average Flow Rate:	120.3 cfm

Estimated Vapor Phase Hydrocarbon Removal (TPH> C_4-C_{10}):

Reporting Period (June 17, 2014 through July 10, 2014): 8.6 pounds

Since system start-up (June 17, 2014 through July 10, 2014): 8.6 pounds

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Remediation system vapor monitoring, performance data, and system operation and maintenance visits are summarized in **Table 5**. Additionally, wellhead vacuum readings collected during system checks are summarized in **Table 5**. A review of **Table 5** indicates that significant vacuum influence (1% of applied vacuum at SVE well-heads) was observed in monitoring wells north and south of the former tank field (MW-1, MW-2, MW-7 and MW-11).

Three SVE effluent samples were collected for laboratory analysis in the reporting period. Samples were analyzed for BTEX, MTBE, TPH carbon range C1-C4, and TPH carbon range >C4-C10 using EPA Methods 18 and 25. The data is summarized in **Table 5** and the Lancaster Laboratories Analysis Reports are included within **Appendix D**. Constituents of concern were not detected above the laboratory reporting limits in the SVE effluent samples collected. The lack of vapor phase recovery at the Site is not unexpected given 1) the UST release has been removed and the tank field area open for approximately two years, 2) petroleum hydrocarbons and MTBE were detected at low to negligible concentrations in soil samples collected from the vadose zone; and 3) petroleum hydrocarbons and MTBE in the soil vapor samples collected during the First Quarter 2014 were below detection laboratory limits. The absence of recovered mass from the SVE system and the lack of quantifiable hydrocarbons in the soil vapor samples suggest limited vapor phase hydrocarbons remain in the vadose zone at the Site.

WASTE MANAGEMENT

Soil generated during drilling of monitoring well MW-23D was containerized in DOT approved 55-gallon steel drums and staged on-site for disposal. Water generated during well advancement and development was containerized for off-site disposal. The non-hazardous waste manifests will be submitted to the VADEQ under separate cover.

ACTIVITIES PLANNED FOR NEXT PERIOD (THIRD QUARTER 2014)

Activities planned for the Third Quarter 2014 includes additional assessment to the south of the Site, installation of one monitoring well between W-6 and MW-22 on the Great Falls Shopping Center, installation of nested well screens within MW-20D to facilitate future groundwater monitoring, one groundwater sampling event of select wells, operation of the SVE system, and the installation and startup of an interim groundwater recovery and treatment system.

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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: Hydrocarbon Distribution / Groundwater Contour Map – Shallow Wells (June 18 through June 20, 2014)
Figure 4: Hydrocarbon Distribution / Groundwater Contour Map – Deep Wells (April 25 through July 10, 2014)
Figure 5: MTBE Isoconcentration Map – Shallow Wells (June 18 through June 20, 2014)
Figure 6: MTBE Isoconcentration Map – Deep Wells (April 25 through July 10, 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: SVE System Monitoring and Performance

APPENDICES:

Appendix A: Monitoring Well Boring and Construction Log
Appendix B: Lancaster Laboratories Analysis Reports – Groundwater
Appendix C: Lancaster Laboratories Analysis Reports - SVE System

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Prepared By:

Kleinfelder, Inc.

Paxton D. Wertz
Geologist

Mark C. Steele
Senior Program Manager

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FIGURES

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PROJECT NO.	20143589
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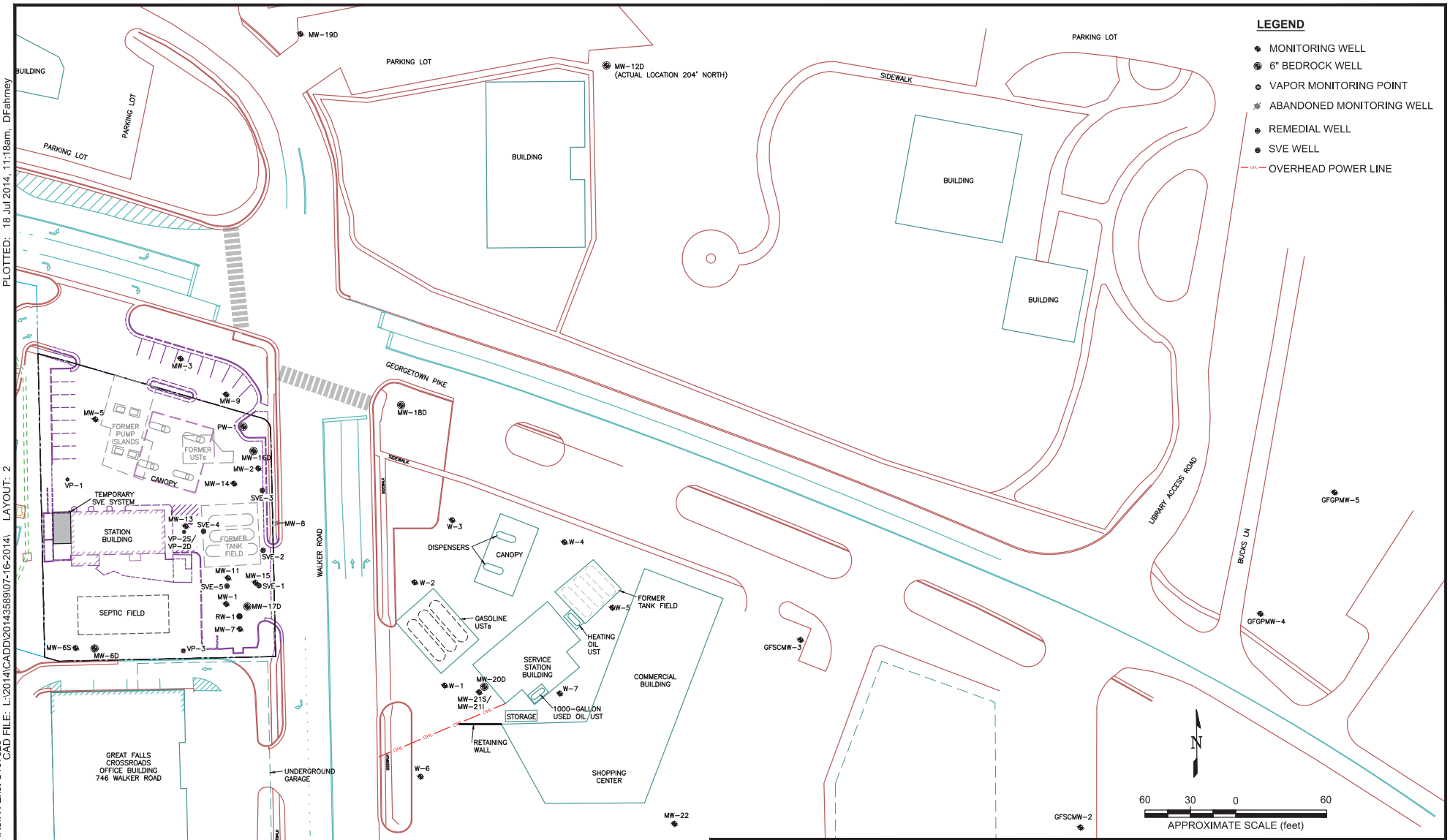
DRAWN BY:	PD/RA
CHECKED BY:	PW
FILE NAME:	26140_LAM_07_14.mxd

LOCAL AREA MAP

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

FIGURE
1



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PROJECT NO.	20143589
DRAWN:	07/2014
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CHECKED BY:	PW
FILE NAME:	26140_SP_14.dwg

SITE PLAN

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

FIGURE
2

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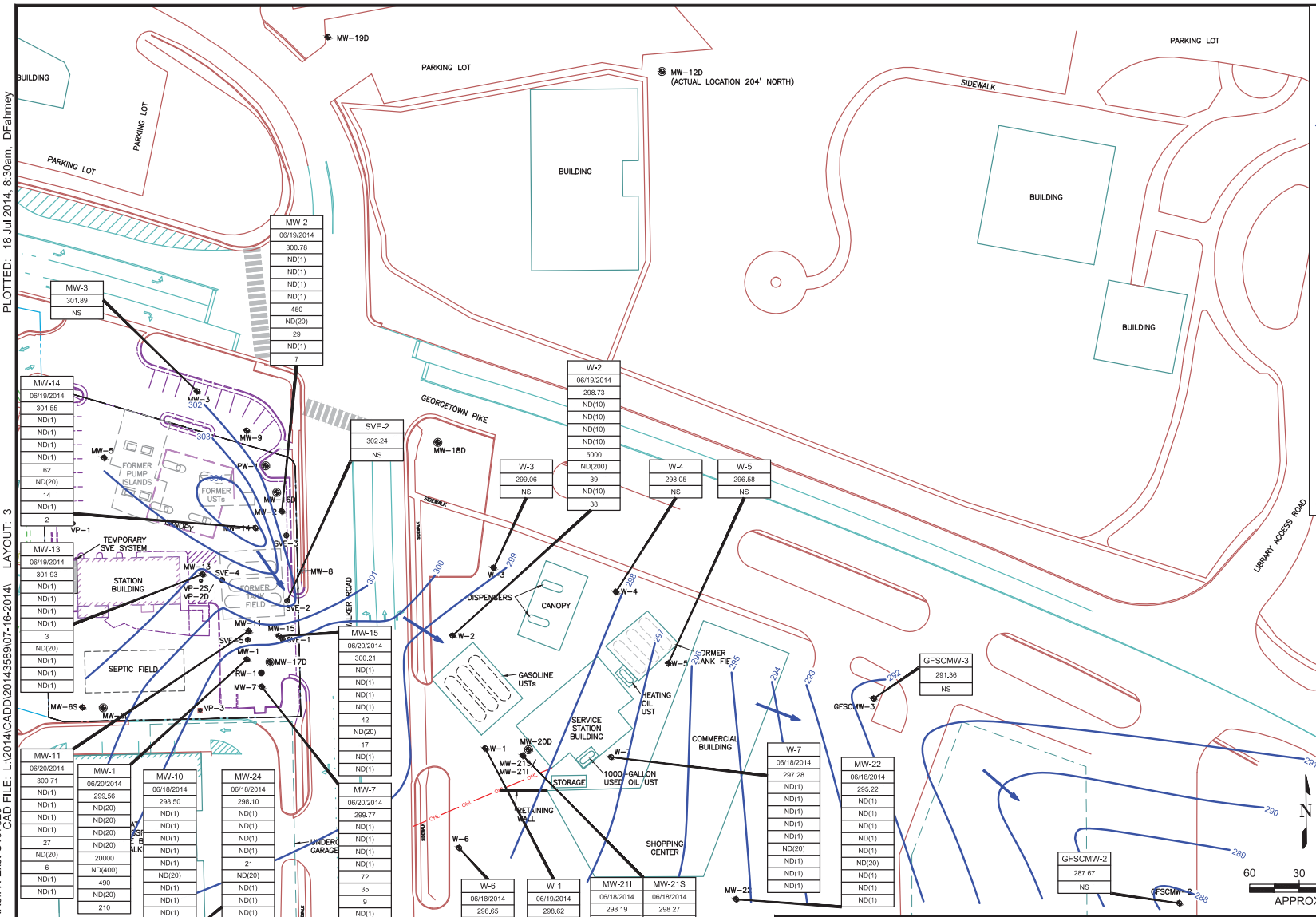
CAD FILE: L:\2014\CADD\20143589\07-16-2014\ LAYOUT: 2
ATTACHED IMAGES:
ATTACHED XREFS: XRef: X-Exst-S107520
ALBUQUERQUE, NM



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

GROUNDWATER ELEVATION

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 JUNE 19, 2014 GAUGING DATA.

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FILE NAME:	26140_SP_14.dwg

HYDROCARBON DISTRIBUTION / GROUNDWATER CONTOUR MAP JUNE 18 THROUGH JUNE 20, 2014 SHALLOW WELLS

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

FIGURE
3

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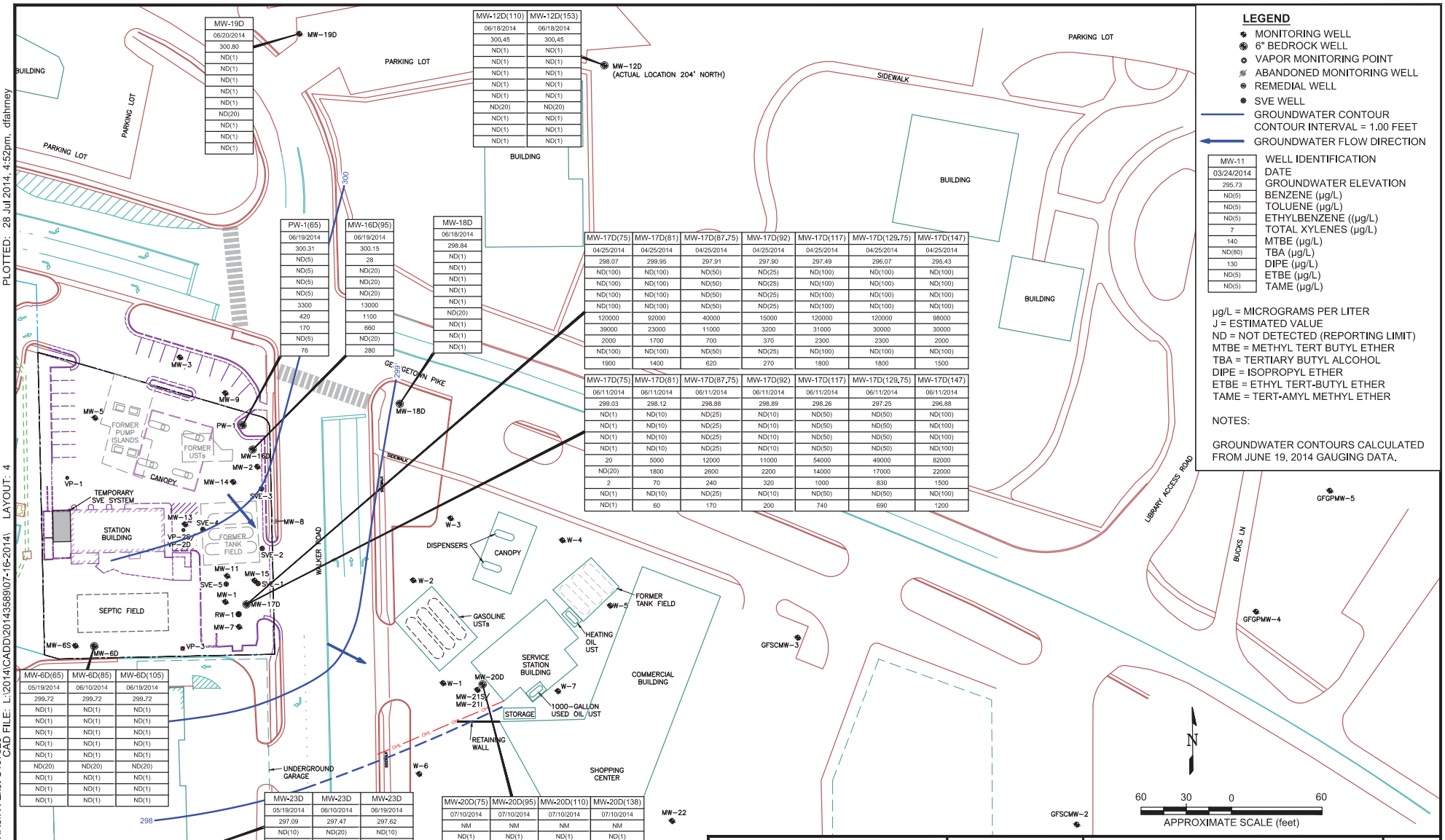

MW-19D
06/20/2014
300.80
ND(1)
ND(1)
ND(1)
ND(1)
ND(1)
ND(20)
ND(1)
ND(1)
ND(1)

MW-12D(110)	MW-12D(153)
06/18/2014	06/18/2014
300.45	300.45
ND(1)	ND(1)
ND(1)	ND(1)
ND(1)	ND(1)
ND(1)	ND(1)
ND(1)	ND(1)
ND(20)	ND(20)
ND(1)	ND(1)
ND(1)	ND(1)
ND(1)	ND(1)

PW-1(65)
06/19/2014
300.31
ND(5)
ND(5)
ND(5)
ND(5)
3300
420
170
ND(5)
76

MW-16D(95)
06/19/2014
300.15
28
ND(20)
ND(20)
ND(20)
13000
1100
660
ND(20)
280

MW-18D
06/18/2014
298.84
ND(1)
ND(1)
ND(1)
ND(1)
ND(1)
ND(20)
ND(1)
ND(1)
ND(1)

MW-17D(75)	MW-17D(81)	MW-17D(87.75)	MW-17D(92)	MW-17D(117)	MW-17D(129.75)	MW-17D(147)
04/25/2014	04/25/2014	04/25/2014	04/25/2014	04/25/2014	04/25/2014	04/25/2014
298.07	299.95	297.91	297.90	297.49	296.07	295.43
ND(100)	ND(100)	ND(50)	ND(25)	ND(100)	ND(100)	ND(100)
ND(100)	ND(100)	ND(50)	ND(25)	ND(100)	ND(100)	ND(100)
ND(100)	ND(100)	ND(50)	ND(25)	ND(100)	ND(100)	ND(100)
ND(100)	ND(100)	ND(50)	ND(25)	ND(100)	ND(100)	ND(100)
120000	92000	40000	15000	120000	120000	98000
39000	23000	11000	3200	31000	30000	30000
2000	1700	700	370	2300	2300	2000
ND(100)	ND(100)	ND(50)	ND(25)	ND(100)	ND(100)	ND(100)
1900	1400	620	270	1800	1800	1500

MW-17D(75)	MW-17D(81)	MW-17D(87.75)	MW-17D(92)	MW-17D(117)	MW-17D(129.75)	MW-17D(147)
06/11/2014	06/11/2014	06/11/2014	06/11/2014	06/11/2014	06/11/2014	06/11/2014
299.03	298.12	298.88	298.89	298.26	297.25	296.88
ND(1)	ND(10)	ND(25)	ND(10)	ND(50)	ND(50)	ND(100)
ND(1)	ND(10)	ND(25)	ND(10)	ND(50)	ND(50)	ND(100)
ND(1)	ND(10)	ND(25)	ND(10)	ND(50)	ND(50)	ND(100)
ND(1)	ND(10)	ND(25)	ND(10)	ND(50)	ND(50)	ND(100)
20	5000	12000	11000	54000	49000	82000
ND(20)	1800	2600	2200	14000	17000	22000
2	70	240	320	1000	830	1500
ND(1)	ND(10)	ND(25)	ND(10)	ND(50)	ND(50)	ND(100)
ND(1)	60	170	200	740	690	1200

MW-6D(65)	MW-6D(85)	MW-6D(105)
05/19/2014	06/10/2014	06/19/2014
299.72	299.72	299.72
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)	ND(1)	ND(1)
ND(20)	ND(20)	ND(20)
ND(1)	ND(1)	ND(1)
ND(1)	ND(1)	ND(1)
ND(1)	ND(1)	ND(1)

MW-23D	MW-23D	MW-23D
05/19/2014	06/10/2014	06/19/2014
297.09	297.47	297.62
ND(10)	ND(20)	ND(10)
ND(10)	ND(20)	ND(10)
ND(10)	ND(20)	ND(10)
ND(10)	ND(20)	ND(10)
8000	11000	5100
1800	2200	ND(200)
260	340	130
ND(10)	ND(20)	ND(10)
120	180	57

MW-20D(75)	MW-20D(95)	MW-20D(110)	MW-20D(138)
07/10/2014	07/10/2014	07/10/2014	07/10/2014
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)
100	73	43	55
28	21	ND(20)	ND(20)
3	2	1	1
ND(1)	ND(1)	ND(1)	ND(1)
ND(1)	ND(1)	ND(1)	ND(1)

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	
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)

WELL IDENTIFICATION

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 JUNE 19, 2014 GAUGING DATA.

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FILE NAME:	26140_SP_14.dwg

HYDROCARBON DISTRIBUTION / GROUNDWATER CONTOUR MAP APRIL 25 THROUGH JULY 10, 2014 DEEP WELLS

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

FIGURE
4

PLOTTED: 28 Jul 2014, 4:52pm, dfahney
LAYOUT: 4
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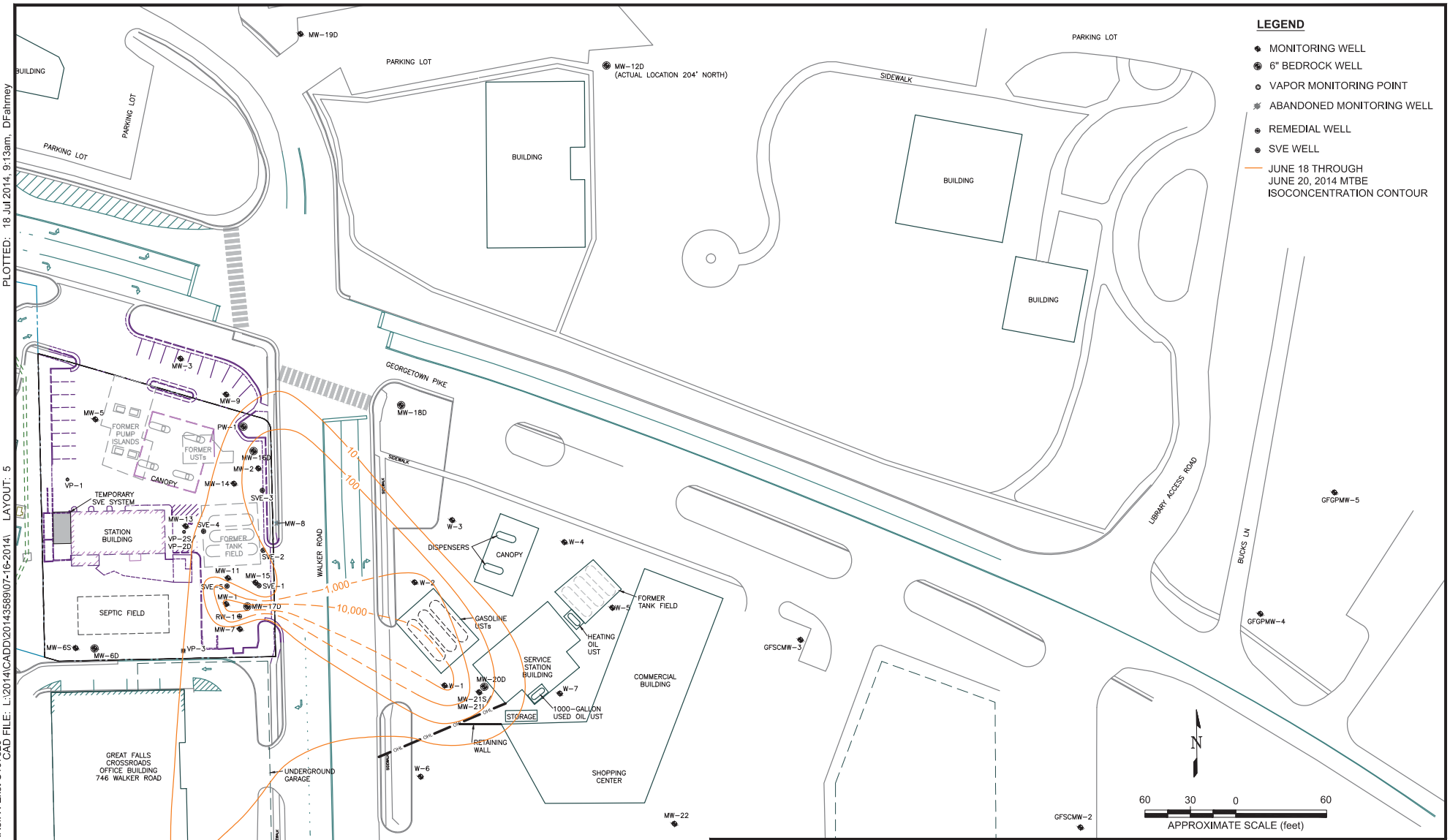
XRef: X-Exst-S107520
ATTACHED IMAGES:
ATTACHED XREFS:
ALBUQUERQUE, NM



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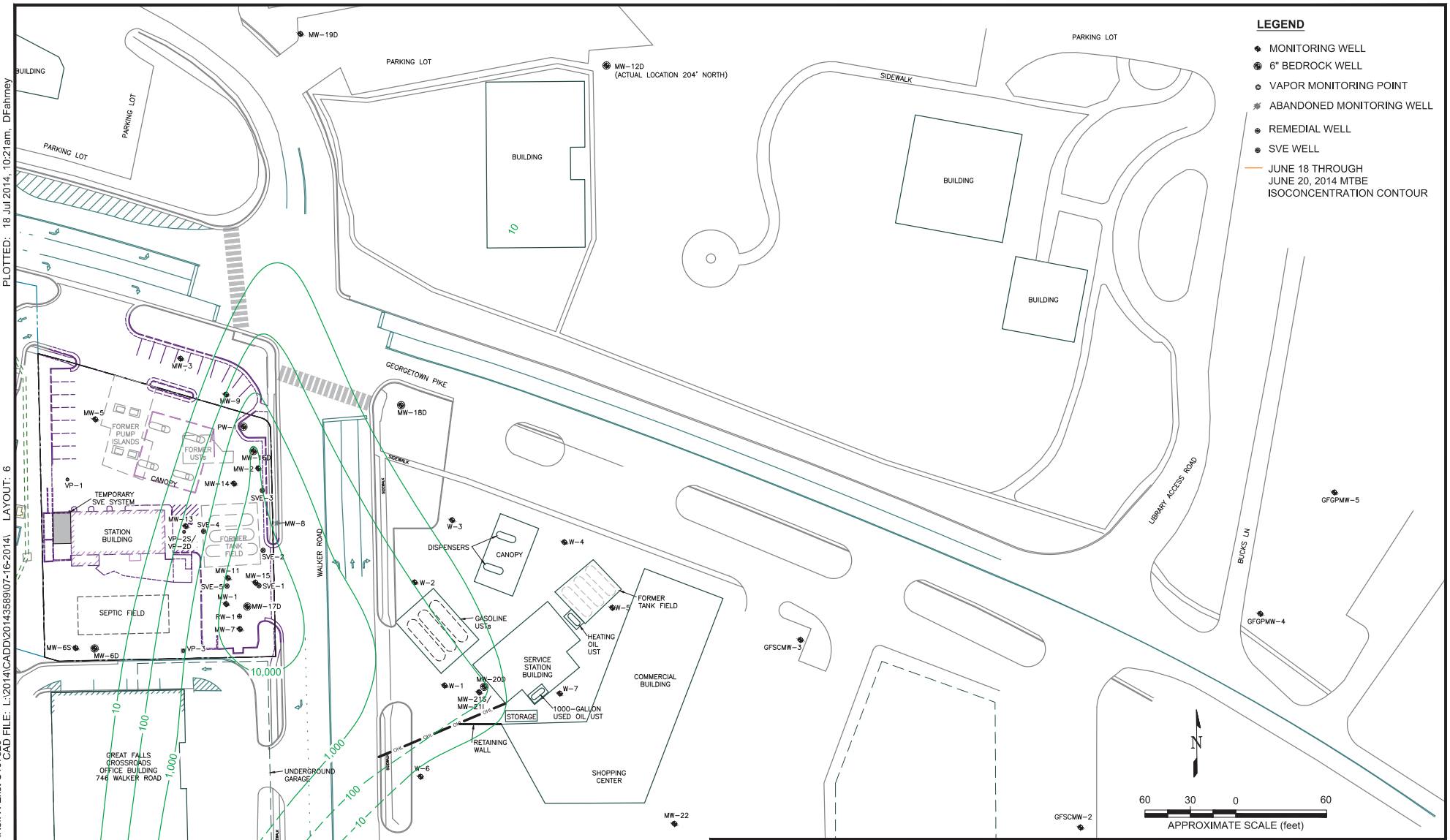
MTBE ISOCONCENTRATION MAP
JUNE 18 THROUGH JUNE 20, 2014
SHALLOW WELLS

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

FIGURE
5

PLOTTED: 18 Jul 2014, 9:13am, DFahrney
CAD FILE: L:\2014\CADD\20143589\07-16-2014\ LAYOUT: 5
ATTACHED IMAGES:
ATTACHED XREFS: XRef: X-Exst-S107520
ALBUQUERQUE, NM



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FILE NAME:	26140_SP_14.dwg

MTBE ISOCONCENTRATION MAP
JUNE 18 THROUGH JUNE 20, 2014
DEEP WELLS

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

FIGURE
6

PLOTTED: 18 Jul 2014, 10:21am, DFahney
CAD FILE: L:\2014\CADD\20143589\07-16-2014\ LAYOUT: 6
ATTACHED IMAGES:
ATTACHED XREFS: XRef: X-Exst-S107520
ALBUQUERQUE, NM

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	Converted to CMT on 4/9/2014.
MW-17D (CMT-1)	4/9/2014	Discrete Interval Monitoring	0.4	328.84	71	6	150	71-77	The Continuous Multichannel Tubing (CMT) screens are approximately six inches in length. The Screen Length / Open Interval and Screen / Open Interval columns refer to the sand pack installed in the borehole annulus surrounding the CMT port.
MW-17D (CMT-2)	4/9/2014	Discrete Interval Monitoring	0.4	328.84	79	4	150	79-83	
MW-17D (CMT-3)	4/9/2014	Discrete Interval Monitoring	0.4	328.84	86	4	150	86-90	
MW-17D (CMT-4)	4/9/2014	Discrete Interval Monitoring	0.4	328.84	91	2	150	91-93	
MW-17D (CMT-5)	4/9/2014	Discrete Interval Monitoring	0.4	328.84	114	6	150	114-120	
MW-17D (CMT-6)	4/9/2014	Discrete Interval Monitoring	0.4	328.84	126	6	150	126-132	
MW-17D (CMT-7)	4/9/2014	Discrete Interval Monitoring	0.38	328.84	146	4	150	146-150	
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-23D	5/1/2014	Deep Monitoring	2	324.81	90	10	100	90-100	
MW-24	4/3/2014	Monitoring	2	324.49	50	10	60	50-60	
PW-1	Unknown	Deep Monitoring	6	334.54	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.

Table 2

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through June 20, 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	
	06/20/2014	328.99	29.43	ND	ND	299.56	ND(20)	ND(20)	ND(20)	ND(20)	20000	ND(400)	490	ND(20)	210	

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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 June 20, 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	
	06/20/2014	332.05	31.27	ND	ND	300.78	ND(1)	ND(1)	ND(1)	ND(1)	450	ND(20)	29	ND(1)	7	

Table 2 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through June 20, 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	
	06/19/2014	333.98	32.09	ND	ND	301.89	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 June 20, 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	
	06/19/2014	332.35	29.30	ND	ND	303.05	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 June 20, 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	
	06/19/2014	321.85	20.01	ND	ND	301.84	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 June 20, 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-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	
	06/20/2014	327.96	28.19	ND	ND	299.77	ND(1)	ND(1)	ND(1)	ND(1)	72	35	9	ND(1)	ND(1)	
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'
	06/19/2014	329.69	27.45	ND	ND	302.24	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 June 20, 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-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)	
	06/19/2014	333.46	32.56	ND	ND	300.90	NS	NS	NS	NS	NS	NS	NS	NS	NS	
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	
	06/18/2014	324.17	25.67	ND	ND	298.50	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	

Table 2 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through June 20, 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-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)	
	06/20/2014	329.64	28.93	ND	ND	300.71	ND(1)	ND(1)	ND(1)	ND(1)	27	ND(20)	6	ND(1)	ND(1)	
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)	
	06/19/2014	332.00	30.07	ND	ND	301.93	ND(1)	ND(1)	ND(1)	ND(1)	3	ND(20)	ND(1)	ND(1)	ND(1)	

Table 2 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through June 20, 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-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)	
	06/19/2014	331.82	27.27	ND	ND	304.55	ND(1)	ND(1)	ND(1)	ND(1)	62	ND(20)	14	ND(1)	2	
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	
	06/20/2014	328.95	28.74	ND	ND	300.21	ND(1)	ND(1)	ND(1)	ND(1)	42	ND(20)	17	ND(1)	ND(1)	
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'
	06/18/2014	329.69	31.42	ND	ND	298.27	ND(1)	ND(1)	ND(1)	ND(1)	53	ND(20)	1	ND(1)	ND(1)	
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'
	06/18/2014	329.71	31.52	ND	ND	298.19	ND(1)	ND(1)	ND(1)	ND(1)	1700	910	26	ND(1)	18	
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'
	06/18/2014	320.97	25.75	ND	ND	295.22	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
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'
	06/18/2014	324.49	26.39	ND	ND	298.10	ND(1)	ND(1)	ND(1)	ND(1)	21	ND(20)	ND(1)	ND(1)	ND(1)	

Table 2 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through June 20, 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	
	06/19/2014	328.53	29.91	ND	ND	298.62	ND(50)	ND(50)	ND(50)	ND(50)	15000	13000	130	ND(50)	140	
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)	
	06/19/2014	329.47	30.74	ND	ND	298.73	ND(10)	ND(10)	ND(10)	ND(10)	5000	ND(200)	39	ND(10)	38	
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	
	06/19/2014	330.14	31.08	ND	ND	299.06	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	
	06/19/2014	327.67	29.62	ND	ND	298.05	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 June 20, 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-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	
	06/19/2014	327.81	31.23	ND	ND	296.58	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)	
	06/18/2014	325.21	26.56	ND	ND	298.65	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
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)	
	06/18/2014	329.77	32.49	ND	ND	297.28	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
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
	06/19/2014	316.79	29.12	ND	ND	287.67	NS	NS	NS	NS	NS	NS	NS	NS	NS	
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
	06/19/2014	319.78	28.42	ND	ND	291.36	NS	NS	NS	NS	NS	NS	NS	NS	NS	
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'
	06/19/2014	310.10	17.21	ND	ND	292.89	NS	NS	NS	NS	NS	NS	NS	NS	NS	
GFGPMW-5	03/24/2014	310.72	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	Screened from 5-25'
	06/19/2014	310.72	DRY	DRY	DRY	DRY	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 June 20, 2014

Notes:

µg/L - micrograms per liter (µg/L)
CMT - Continuous Multichannel Tubing
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 July 10, 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	
	06/18/2014	323.09	23.37	ND	ND	299.72	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
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	
	06/18/2014	323.09	23.37	ND	ND	299.72	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through July 10, 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	
	06/18/2014	323.09	23.37	ND	ND	299.72	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
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	
	06/18/2014	326.43	25.98	ND	ND	300.45	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
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	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	
	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	
	06/18/2014	326.43	25.98	ND	ND	300.45	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through July 10, 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	
	06/19/2014	332.90	32.75	ND	ND	300.15	28	ND(20)	ND(20)	ND(20)	13000	1100	660	ND(20)	280	
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(75)	04/25/2014	328.84	30.77	ND	ND	298.07	ND(100)	ND(100)	ND(100)	ND(100)	120000	39000	2000	ND(100)	1900	CMT
	06/11/2014	328.84	29.81	ND	ND	299.03	ND(1)	ND(1)	ND(1)	ND(1)	20	ND(20)	2	ND(1)	ND(1)	
MW-17D(81)	04/25/2014	328.84	28.89	ND	ND	299.95	ND(100)	ND(100)	ND(100)	ND(100)	92000	23000	1700	ND(100)	1400	CMT
	06/11/2014	328.84	30.72	ND	ND	298.12	ND(10)	ND(10)	ND(10)	ND(10)	5000	1800	70	ND(10)	60	
MW-17D(87.75)	04/25/2014	328.84	30.93	ND	ND	297.91	ND(50)	ND(50)	ND(50)	ND(50)	40000	11000	700	ND(50)	620	CMT
	06/11/2014	328.84	29.96	ND	ND	298.88	ND(25)	ND(25)	ND(25)	ND(25)	12000	2600	240	ND(25)	170	
MW-17D(92)	04/25/2014	328.84	30.94	ND	ND	297.90	ND(25)	ND(25)	ND(25)	ND(25)	15000	3200	370	ND(25)	270	CMT
	06/10/2014	328.84	29.95	ND	ND	298.89	ND(10)	ND(10)	ND(10)	ND(10)	11000	2200	320	ND(10)	200	
MW-17D(117)	04/25/2014	328.84	31.35	ND	ND	297.49	ND(100)	ND(100)	ND(100)	ND(100)	120000	31000	2300	ND(100)	1800	CMT
	06/10/2014	328.84	30.58	ND	ND	298.26	ND(50)	ND(50)	ND(50)	ND(50)	54000	14000	1000	ND(50)	740	
MW-17D(129.75)	04/25/2014	328.84	32.77	ND	ND	296.07	ND(100)	ND(100)	ND(100)	ND(100)	120000	30000	2300	ND(100)	1800	CMT
	06/10/2014	328.84	31.59	ND	ND	297.25	ND(50)	ND(50)	ND(50)	ND(50)	49000	17000	830	ND(50)	690	
MW-17D(147)	04/25/2014	328.84	33.41	ND	ND	295.43	ND(100)	ND(100)	ND(100)	ND(100)	98000	30000	2000	ND(100)	1500	CMT
	06/11/2014	328.84	31.96	ND	ND	296.88	ND(100)	ND(100)	ND(100)	ND(100)	82000	22000	1500	ND(100)	1200	
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	
	06/18/2014	334.88	36.04	ND	ND	298.84	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through July 10, 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-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)	
	06/20/2014	341.91	41.11	ND	ND	300.80	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'
	07/10/2014	329.80	NM	NM	NM	NM	ND(1)	ND(1)	ND(1)	ND(1)	100	28	3	ND(1)	ND(1)	
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
	07/10/2014	329.80	NM	NM	NM	NM	ND(1)	ND(1)	ND(1)	ND(1)	73	21	2	ND(1)	ND(1)	
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
	07/10/2014	329.80	NM	NM	NM	NM	ND(1)	ND(1)	ND(1)	ND(1)	43	ND(20)	1	ND(1)	ND(1)	
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
	07/10/2014	329.80	NM	NM	NM	NM	ND(1)	ND(1)	ND(1)	ND(1)	55	ND(20)	1	ND(1)	ND(1)	
MW-23D	05/19/2014	324.81	27.72	ND	ND	297.09	ND(10)	ND(10)	ND(10)	ND(10)	8000	1800	260	ND(10)	120	Screened from 90-100'
	06/10/2014	324.81	27.34	ND	ND	297.47	ND(20)	ND(20)	ND(20)	ND(20)	11000	2200	340	ND(20)	180	
	06/19/2014	324.81	27.19	ND	ND	297.62	ND(10)	ND(10)	ND(10)	ND(10)	5100	ND(200)	130	ND(10)	57	
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 July 10, 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	
	06/19/2014	334.54	34.23	ND	ND	300.31	ND(5)	ND(5)	ND(5)	ND(5)	3300	420	170	ND(5)	76	
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'
	06/19/2014	328.31	28.14	ND	ND	300.17	NS	NS	NS	NS	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 July 10, 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-Dichloroethane (µg/L)	cis-1,2-Dichloroethylene (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)	
	6/20/2014	328.99	29.43	ND	ND	299.56	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	

TABLE 4

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

January 18, 2003 through July 10, 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-Dichloroethane (µg/L)	cis-1,2-Dichloroethylene (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl chloride (µg/L)	Comments
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)	
	6/20/2014	332.05	31.27	ND	ND	300.78	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	

TABLE 4

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

January 18, 2003 through July 10, 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-Dichloroethane (µg/L)	cis-1,2-Dichloroethylene (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	
	6/19/2014	333.98	32.09	ND	ND	301.89	NS	NS	NS	NS	NS	

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 July 10, 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-Dichloroethane (µg/L)	cis-1,2-Dichloroethylene (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl chloride (µg/L)	Comments
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	
	6/19/2014	332.35	29.30	ND	ND	303.05	NS	NS	NS	NS	NS	
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	
	6/19/2014	321.85	20.01	ND	ND	301.84	NS	NS	NS	NS	NS	

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 July 10, 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-Dichloroethane (µg/L)	cis-1,2-Dichloroethylene (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl chloride (µg/L)	Comments
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	
	6/18/2014	323.09	23.37	ND	ND	299.72	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	
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)	
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	
	6/18/2014	323.09	23.37	ND	ND	299.72	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	

TABLE 4

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

January 18, 2003 through July 10, 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-Dichloroethane (µg/L)	cis-1,2-Dichloroethylene (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl chloride (µg/L)	Comments
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	
	6/18/2014	323.09	23.37	ND	ND	299.72	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	
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)	
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)	
	6/20/2014	327.96	28.19	ND	ND	299.77	ND(1)	ND(1)	1	ND(1)	ND(1)	

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Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia

January 18, 2003 through July 10, 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-Dichloroethane (µg/L)	cis-1,2-Dichloroethylene (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'
	6/19/2014	329.69	27.45	ND	ND	302.24	NS	NS	NS	NS	NS	
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)	
	6/19/2014	333.46	32.56	ND	ND	300.90	NS	NS	NS	NS	NS	

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Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia

January 18, 2003 through July 10, 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-Dichloroethane (µg/L)	cis-1,2-Dichloroethylene (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	
	6/18/2014	324.17	25.67	ND	ND	298.50	ND(1)	9	ND(1)	ND(1)	ND(1)	
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)	
	6/20/2014	329.64	28.93	ND	ND	300.71	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	

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Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia

January 18, 2003 through July 10, 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-Dichloroethane (µg/L)	cis-1,2-Dichloroethylene (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	
	6/18/2014	326.43	25.98	ND	ND	300.45	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	
MW-12D(153)	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	
	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	
	6/18/2014	326.43	25.98	ND	ND	300.45	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	
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)	
	6/19/2014	332.00	30.07	ND	ND	301.93	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	
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)	
	6/19/2014	331.82	27.27	ND	ND	304.55	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 July 10, 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-Dichloroethane (µg/L)	cis-1,2-Dichloroethylene (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)	
	6/20/2014	328.95	28.74	ND	ND	300.21	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	
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)	
	6/19/2014	332.90	32.75	ND	ND	300.15	ND(20)	110	ND(20)	ND(20)	ND(20)	
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(75)	4/25/2014	328.84	30.77	ND	ND	298.07	ND(100)	ND(100)	ND(100)	ND(100)	ND(100)	CMT
	6/11/2014	328.84	29.81	ND	ND	299.03	ND(1)	1	ND(1)	ND(1)	ND(1)	
MW-17D(81)	4/25/2014	328.84	28.89	ND	ND	299.95	ND(100)	ND(100)	ND(100)	ND(100)	ND(100)	CMT
	6/11/2014	328.84	30.72	ND	ND	298.12	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	
MW-17D(87.75)	4/25/2014	328.84	30.93	ND	ND	297.91	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	CMT
	6/11/2014	328.84	29.96	ND	ND	298.88	ND(25)	160	ND(25)	ND(25)	ND(25)	
MW-17D(92)	4/25/2014	328.84	30.94	ND	ND	297.90	ND(25)	120	ND(25)	ND(25)	ND(25)	CMT
	6/10/2014	328.84	29.95	ND	ND	298.89	ND(10)	59	ND(10)	ND(10)	ND(10)	
MW-17D(117)	4/25/2014	328.84	31.35	ND	ND	297.49	ND(100)	ND(100)	ND(100)	ND(100)	ND(100)	CMT
	6/10/2014	328.84	30.58	ND	ND	298.26	ND(50)	110	ND(50)	ND(50)	ND(50)	
MW-17D(129.75)	4/25/2014	328.84	32.77	ND	ND	296.07	ND(100)	ND(100)	ND(100)	ND(100)	ND(100)	CMT
	6/10/2014	328.84	31.59	ND	ND	297.25	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	

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January 18, 2003 through July 10, 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-Dichloroethane (µg/L)	cis-1,2-Dichloroethylene (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl chloride (µg/L)	Comments
MW-17D(147)	4/25/2014	328.84	33.41	ND	ND	295.43	ND(100)	ND(100)	ND(100)	ND(100)	ND(100)	CMT
	6/11/2014	328.84	31.96	ND	ND	296.88	ND(100)	ND(100)	ND(100)	ND(100)	ND(100)	
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	
	6/18/2014	334.88	36.04	ND	ND	298.84	ND(1)	3	ND(1)	ND(1)	ND(1)	
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)	
	6/20/2014	341.91	41.11	ND	ND	300.80	ND(1)	9	2	1	ND(1)	
MW-20D(75)	4/11/2014	329.80	NM	NM	NM	NM	NS	NS	NS	NS	NS	Hydrasleeve:Open from 70-142'
	7/10/2014	329.80	NM	NM	NM	NM	NS	NS	NS	NS	NS	
MW-20D(95)	4/11/2014	329.80	NM	NM	NM	NM	NS	NS	NS	NS	NS	Hydrasleeve
	7/10/2014	329.80	NM	NM	NM	NM	NS	NS	NS	NS	NS	
MW-20D(110)	4/11/2014	329.80	NM	NM	NM	NM	NS	NS	NS	NS	NS	Hydrasleeve
	7/10/2014	329.80	NM	NM	NM	NM	NS	NS	NS	NS	NS	
MW-20D(138)	4/11/2014	329.80	NM	NM	NM	NM	NS	NS	NS	NS	NS	Hydrasleeve
	7/10/2014	329.80	NM	NM	NM	NM	NS	NS	NS	NS	NS	
MW-21S	4/11/2014	329.69	33.65	ND	ND	296.04	NS	NS	NS	NS	NS	Screened from 26-46'
	6/18/2014	329.69	31.42	ND	ND	298.27	NS	NS	NS	NS	NS	
MW-21I	4/11/2014	329.71	33.71	ND	ND	296.00	NS	NS	NS	NS	NS	Screened from 56-66'
	6/18/2014	329.71	31.52	ND	ND	298.19	NS	NS	NS	NS	NS	
MW-22	4/11/2014	320.97	28.55	ND	ND	292.42	NS	NS	NS	NS	NS	Screened from 20-40'
	6/18/2014	320.97	25.75	ND	ND	295.22	NS	NS	NS	NS	NS	
MW-23D	5/19/2014	324.81	33.34	ND	ND	291.47	ND(10)	89	19	ND(10)	ND(10)	Screened from 90-100'
	6/10/2014	324.81	27.34	ND	ND	297.47	ND(20)	120	ND(20)	ND(20)	ND(20)	
	6/19/2014	324.81	27.19	ND	ND	297.62	ND(10)	38	ND(10)	ND(10)	ND(10)	
MW-24	4/11/2014	324.49	27.66	ND	ND	296.83	ND(1)	58	3	1	ND(1)	Screened from 50-60'
	6/18/2014	324.49	26.39	ND	ND	298.10	ND(1)	29	2	ND(1)	ND(1)	

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 July 10, 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-Dichloroethane (µg/L)	cis-1,2-Dichloroethylene (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl chloride (µg/L)	Comments
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)	
	6/19/2014	334.54	34.23	ND	ND	300.31	ND(5)	27	ND(5)	ND(5)	ND(5)	
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'
	6/19/2014	328.31	28.14	ND	ND	300.17	NS	NS	NS	NS	NS	

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 July 10, 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-Dichloroethane (µg/L)	cis-1,2-Dichloroethylene (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	
	6/19/2014	328.53	29.91	ND	ND	298.62	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	
	6/19/2014	329.47	30.74	ND	ND	298.73	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	
	6/19/2014	330.14	31.08	ND	ND	299.06	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	
	6/19/2014	327.67	29.62	ND	ND	298.05	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 July 10, 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-Dichloroethane (µg/L)	cis-1,2-Dichloroethylene (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl chloride (µg/L)	Comments
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	
	6/19/2014	327.81	31.23	ND	ND	296.58	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	
	6/18/2014	325.21	26.56	ND	ND	298.65	NS	NS	NS	NS	NS	
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	
	6/18/2014	329.77	32.49	ND	ND	297.28	NS	NS	NS	NS	NS	

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 July 10, 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-Dichloroethane (µg/L)**	**cis-1,2-Dichloroethylene (µg/L)**	**PCE (µg/L)**	**TCE (µg/L)**	**Vinyl chloride (µg/L)**	**Comments**
GFSCMW-2	3/24/2014	316.79	30.18	ND	ND	286.61	NS	NS	NS	NS	NS	Interval not available
	6/19/2014	316.79	29.12	ND	ND	287.67	NS	NS	NS	NS	NS	
GFSCMW-3	3/24/2014	319.78	29.14	ND	ND	290.64	NS	NS	NS	NS	NS	Interval not available
	6/19/2014	319.78	28.42	ND	ND	291.36	NS	NS	NS	NS	NS	
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'
	6/19/2014	310.10	17.21	ND	ND	292.89	NS	NS	NS	NS	NS	
GFGPMW-5	3/24/2014	310.72	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	Screened from 5-25'
	6/19/2014	310.72	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	

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

APPENDIX A

Monitoring Well Boring and Construction Log

1340 Charwood Road, Suite I
Hanover, MD 21076

DRILLING LOG
Well No. MW-23D

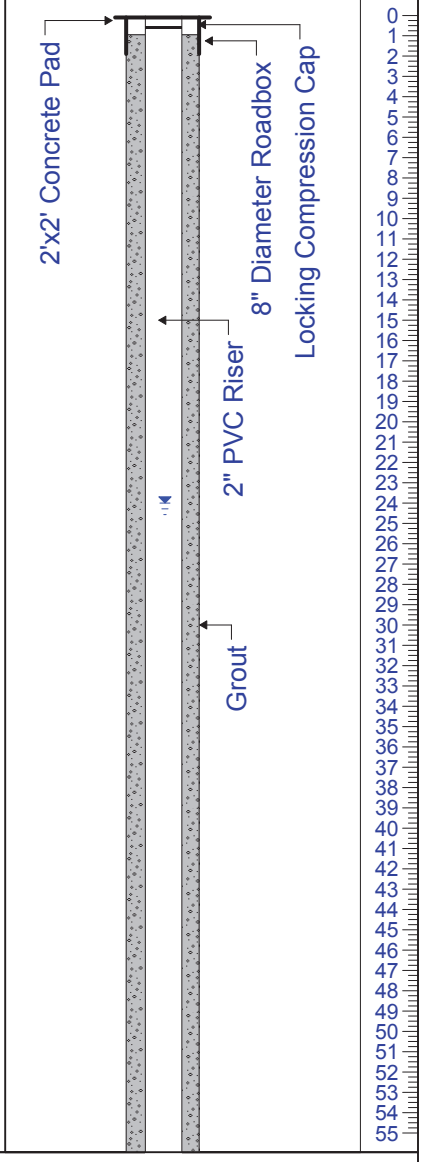
Project Name: Inactive Fairfax Facility 26140
Site Location: 9901 Georgetown Pike, Great Falls, VA
Kleinfelder Project No: 20143589.001A
Client: Fairfax Petroleum Realty, LLC.
Drilling Company: Odyssey Environmental Services
Driller: Jeff Zelko
Drill Rig Type: CME 75
Drilling Method: Hollow-stem auger/Air Rotary
Sampling Method: Hand auger/Cuttings

Start Date: 04/28/2014
End Date: 05/02/2014
Total Hole Depth: 100'
Hole Diameter: 8.25"
Depth to Bedrock: ~67'
Top-Of-Casing Elevation: TBD
Water Level (Initial): ~24'
Water Level (Static): 27.77'
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 – 6000
0		Ground Surface				
1		Asphalt				0.0
2–14		Red brown, moist, silty CLAY, low plasticity, (fill)				0.0, 0.0, 0.0, 0.0
9–10				1-2-2-4	24/24	
11–12				3-4-5-7	24/24	
15–22		Red brown, moist, CLAY, medium plasticity				0.0, 0.0
23–55		Brown, moist, SCHIST saprolite wet at 24'				0.0, 0.0, 0.2, 0.0, 0.1, 0.0, 0.0



VOC - Volatile Organic Compound
NA - Not Applicable
NS - Not Sampled
NR - Not Recorded
NM - Not Measured
NE - Not Encountered
bgs - below ground surface
ppm - parts per million
USCS - Unified Soil Classification System

1340 Charwood Road, Suite I
Hanover, MD 21076

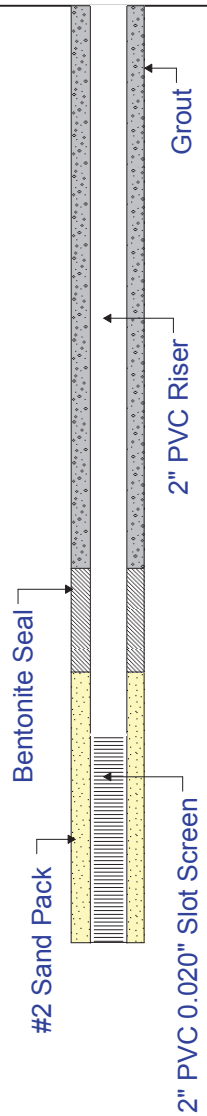
DRILLING LOG
Well No. MW-23D

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: Odyssey Environmental Services
Driller: Jeff Zelko
Drill Rig Type: CME 75
Drilling Method: Hollow-stem auger/Air Rotary
Sampling Method: Hand auger/Cuttings

Start Date: 04/28/2014
End Date: 05/02/2014
Total Hole Depth: 100'
Hole Diameter: 8.25"
Depth to Bedrock: ~67'
Top-Of-Casing Elevation: TBD
Water Level (Initial): ~24'
Water Level (Static): 27.77'
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 6000	Well Completion Details	Depth (feet)
56–66						0.0, 0.0, 0.0		
67–90		Gray/brown, wet, SCHIST Fracture at 76' bgs				0.0, 0.0, 0.0, 0.0, 0.0		
90–100		Gray, SCHIST Fracture at 93' bgs				0.0, 0.0		
101–110		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
ppm - parts per million
USCS - Unified Soil Classification System

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

May 02, 2014

Project: Fairfax 26140

Submittal Date: 04/25/2014
Group Number: 1469982
PO Number: 51141-294572
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
MW-17D(75) Grab Water	7443480
MW-17D(81) Grab Water	7443481
MW-17D(87.75) Grab Water	7443482
MW-17D(92) Grab Water	7443483
MW-17D(117) Grab Water	7443484
MW-17D(129.75) Grab Water	7443485
MW-17D(147) Grab Water	7443486
Trip Blank Water	7443487

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-17D(75) Grab Water
Fairfax 26140

LL Sample # WW 7443480
LL Group # 1469982
Account # 12152

Project Name: Fairfax 26140

Collected: 04/25/2014 10:45 by CC

Submitted: 04/25/2014 16:40
Reported: 05/02/2014 16:13

Kleinfelder
1 Speen Street
Framingham MA 01701

17D01

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	**1,900**	100	100
10335	Benzene	71-43-2	< 100	100	100
10335	Bromodichloromethane	75-27-4	< 100	100	100
10335	Bromoform	75-25-2	< 400	400	100
10335	Bromomethane	74-83-9	< 100	100	100
10335	2-Butanone	78-93-3	< 1,000	1,000	100
10335	**t-Butyl alcohol**	75-65-0	**39,000**	2,000	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	< 100	100	100
10335	Chlorobenzene	108-90-7	< 100	100	100
10335	Chloroethane	75-00-3	< 100	100	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	< 100	100	100
10335	Chloromethane	74-87-3	< 100	100	100
10335	Dibromochloromethane	124-48-1	< 100	100	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	< 100	100	100
10335	1,2-Dichloroethane	107-06-2	< 100	100	100
10335	1,1-Dichloroethene	75-35-4	< 100	100	100
10335	cis-1,2-Dichloroethene	156-59-2	< 100	100	100
10335	trans-1,2-Dichloroethene	156-60-5	< 100	100	100
10335	1,2-Dichloropropane	78-87-5	< 100	100	100
10335	cis-1,3-Dichloropropene	10061-01-5	< 100	100	100
10335	trans-1,3-Dichloropropene	10061-02-6	< 100	100	100
10335	Ethyl t-butyl ether	637-92-3	< 100	100	100
10335	Ethylbenzene	100-41-4	< 100	100	100
10335	**di-Isopropyl ether**	108-20-3	**2,000**	100	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	**120,000**	1,000	1000
10335	Methylene Chloride	75-09-2	< 300	300	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	< 100	100	100
10335	Tetrachloroethene	127-18-4	< 100	100	100
10335	Toluene	108-88-3	< 100	100	100
10335	1,1,1-Trichloroethane	71-55-6	< 100	100	100
10335	1,1,2-Trichloroethane	79-00-5	< 100	100	100
10335	Trichloroethene	79-01-6	< 100	100	100
10335	Trichlorofluoromethane	75-69-4	< 100	100	100
10335	1,2,4-Trimethylbenzene	95-63-6	< 500	500	100

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-17D(75) Grab Water
Fairfax 26140

LL Sample # WW 7443480
LL Group # 1469982
Account # 12152

Project Name: Fairfax 26140

Collected: 04/25/2014 10:45 by CC

Submitted: 04/25/2014 16:40
Reported: 05/02/2014 16:13

Kleinfelder
1 Speen Street
Framingham MA 01701

17D01

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	< 500	500	100
10335	Vinyl Chloride	75-01-4	< 100	100	100
10335	Xylene (Total)	1330-20-7	< 100	100	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	T141192AA	04/30/2014 04:01	Amanda K Richards	100
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	T141192AA	04/30/2014 04:25	Amanda K Richards	1000
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T141192AA	04/30/2014 04:01	Amanda K Richards	100
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T141192AA	04/30/2014 04:25	Amanda K Richards	1000

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Analysis Report

Sample Description: MW-17D(81) Grab Water
Fairfax 26140

LL Sample # WW 7443481
LL Group # 1469982
Account # 12152

Project Name: Fairfax 26140

Collected: 04/25/2014 10:25 by CC

Submitted: 04/25/2014 16:40
Reported: 05/02/2014 16:13

Kleinfelder
1 Speen Street
Framingham MA 01701

17D02

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	**1,400**	100	100
10335	Benzene	71-43-2	< 100	100	100
10335	Bromodichloromethane	75-27-4	< 100	100	100
10335	Bromoform	75-25-2	< 400	400	100
10335	Bromomethane	74-83-9	< 100	100	100
10335	2-Butanone	78-93-3	< 1,000	1,000	100
10335	**t-Butyl alcohol**	75-65-0	**23,000**	2,000	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	< 100	100	100
10335	Chlorobenzene	108-90-7	< 100	100	100
10335	Chloroethane	75-00-3	< 100	100	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	< 100	100	100
10335	Chloromethane	74-87-3	< 100	100	100
10335	Dibromochloromethane	124-48-1	< 100	100	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	< 100	100	100
10335	1,2-Dichloroethane	107-06-2	< 100	100	100
10335	1,1-Dichloroethene	75-35-4	< 100	100	100
10335	cis-1,2-Dichloroethene	156-59-2	< 100	100	100
10335	trans-1,2-Dichloroethene	156-60-5	< 100	100	100
10335	1,2-Dichloropropane	78-87-5	< 100	100	100
10335	cis-1,3-Dichloropropene	10061-01-5	< 100	100	100
10335	trans-1,3-Dichloropropene	10061-02-6	< 100	100	100
10335	Ethyl t-butyl ether	637-92-3	< 100	100	100
10335	Ethylbenzene	100-41-4	< 100	100	100
10335	**di-Isopropyl ether**	108-20-3	**1,700**	100	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	**92,000**	1,000	1000
10335	Methylene Chloride	75-09-2	< 300	300	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	< 100	100	100
10335	Tetrachloroethene	127-18-4	< 100	100	100
10335	Toluene	108-88-3	< 100	100	100
10335	1,1,1-Trichloroethane	71-55-6	< 100	100	100
10335	1,1,2-Trichloroethane	79-00-5	< 100	100	100
10335	Trichloroethene	79-01-6	< 100	100	100
10335	Trichlorofluoromethane	75-69-4	< 100	100	100
10335	1,2,4-Trimethylbenzene	95-63-6	< 500	500	100

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Analysis Report

Sample Description: MW-17D(81) Grab Water
Fairfax 26140

LL Sample # WW 7443481
LL Group # 1469982
Account # 12152

Project Name: Fairfax 26140

Collected: 04/25/2014 10:25 by CC

Submitted: 04/25/2014 16:40
Reported: 05/02/2014 16:13

Kleinfelder
1 Speen Street
Framingham MA 01701

17D02

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	< 500	500	100
10335	Vinyl Chloride	75-01-4	< 100	100	100
10335	Xylene (Total)	1330-20-7	< 100	100	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	T141192AA	04/30/2014 04:49	Amanda K Richards	100
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	T141192AA	04/30/2014 05:13	Amanda K Richards	1000
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T141192AA	04/30/2014 04:49	Amanda K Richards	100
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T141192AA	04/30/2014 05:13	Amanda K Richards	1000

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Analysis Report

Sample Description: MW-17D(87.75) Grab Water
Fairfax 26140

LL Sample # WW 7443482
LL Group # 1469982
Account # 12152

Project Name: Fairfax 26140

Collected: 04/25/2014 09:50 by CC

Submitted: 04/25/2014 16:40
Reported: 05/02/2014 16:13

Kleinfelder
1 Speen Street
Framingham MA 01701

17D03

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	< 1,000	1,000	50
10335	Acrolein	107-02-8	< 5,000	5,000	50
10335	Acrylonitrile	107-13-1	< 1,000	1,000	50
10335	**t-Amyl methyl ether**	994-05-8	**620**	50	50
10335	Benzene	71-43-2	< 50	50	50
10335	Bromodichloromethane	75-27-4	< 50	50	50
10335	Bromoform	75-25-2	< 200	200	50
10335	Bromomethane	74-83-9	< 50	50	50
10335	2-Butanone	78-93-3	< 500	500	50
10335	**t-Butyl alcohol**	75-65-0	**11,000**	1,000	50
10335	n-Butylbenzene	104-51-8	< 250	250	50
10335	sec-Butylbenzene	135-98-8	< 250	250	50
10335	Carbon Tetrachloride	56-23-5	< 50	50	50
10335	Chlorobenzene	108-90-7	< 50	50	50
10335	Chloroethane	75-00-3	< 50	50	50
10335	2-Chloroethyl Vinyl Ether	110-75-8	< 500	500	50
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	< 50	50	50
10335	Chloromethane	74-87-3	< 50	50	50
10335	Dibromochloromethane	124-48-1	< 50	50	50
10335	1,2-Dichlorobenzene	95-50-1	< 250	250	50
10335	1,3-Dichlorobenzene	541-73-1	< 250	250	50
10335	1,4-Dichlorobenzene	106-46-7	< 250	250	50
10335	1,1-Dichloroethane	75-34-3	< 50	50	50
10335	1,2-Dichloroethane	107-06-2	< 50	50	50
10335	1,1-Dichloroethene	75-35-4	< 50	50	50
10335	cis-1,2-Dichloroethene	156-59-2	< 50	50	50
10335	trans-1,2-Dichloroethene	156-60-5	< 50	50	50
10335	1,2-Dichloropropane	78-87-5	< 50	50	50
10335	cis-1,3-Dichloropropene	10061-01-5	< 50	50	50
10335	trans-1,3-Dichloropropene	10061-02-6	< 50	50	50
10335	Ethyl t-butyl ether	637-92-3	< 50	50	50
10335	Ethylbenzene	100-41-4	< 50	50	50
10335	**di-Isopropyl ether**	108-20-3	**700**	50	50
10335	Isopropylbenzene	98-82-8	< 250	250	50
10335	p-Isopropyltoluene	99-87-6	< 250	250	50
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**40,000**	500	500
10335	Methylene Chloride	75-09-2	< 150	150	50
10335	Naphthalene	91-20-3	< 250	250	50
10335	n-Propylbenzene	103-65-1	< 250	250	50
10335	1,1,2,2-Tetrachloroethane	79-34-5	< 50	50	50
10335	Tetrachloroethene	127-18-4	< 50	50	50
10335	Toluene	108-88-3	< 50	50	50
10335	1,1,1-Trichloroethane	71-55-6	< 50	50	50
10335	1,1,2-Trichloroethane	79-00-5	< 50	50	50
10335	Trichloroethene	79-01-6	< 50	50	50
10335	Trichlorofluoromethane	75-69-4	< 50	50	50
10335	1,2,4-Trimethylbenzene	95-63-6	< 250	250	50

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Analysis Report

Sample Description: MW-17D(87.75) Grab Water
Fairfax 26140

LL Sample # WW 7443482
LL Group # 1469982
Account # 12152

Project Name: Fairfax 26140

Collected: 04/25/2014 09:50 by CC

Submitted: 04/25/2014 16:40
Reported: 05/02/2014 16:13

Kleinfelder
1 Speen Street
Framingham MA 01701

17D03

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	< 250	250	50
10335	Vinyl Chloride	75-01-4	< 50	50	50
10335	Xylene (Total)	1330-20-7	< 50	50	50

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	T141192AA	04/30/2014 03:14	Amanda K Richards	50
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	T141192AA	04/30/2014 03:37	Amanda K Richards	500
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T141192AA	04/30/2014 03:14	Amanda K Richards	50
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T141192AA	04/30/2014 03:37	Amanda K Richards	500

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Analysis Report

Sample Description: MW-17D(92) Grab Water
Fairfax 26140

LL Sample # WW 7443483
LL Group # 1469982
Account # 12152

Project Name: Fairfax 26140

Collected: 04/25/2014 09:20 by CC

Kleinfelder
1 Speen Street
Framingham MA 01701

Submitted: 04/25/2014 16:40
Reported: 05/02/2014 16:13

17D04

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	**270**	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	**3,200**	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	**120**	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	**370**	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	**15,000**	250	250
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-17D(92) Grab Water
Fairfax 26140

LL Sample # WW 7443483
LL Group # 1469982
Account # 12152

Project Name: Fairfax 26140

Collected: 04/25/2014 09:20 by CC

Submitted: 04/25/2014 16:40
Reported: 05/02/2014 16:13

Kleinfelder
1 Speen Street
Framingham MA 01701

17D04

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	T141192AA	04/30/2014 02:26	Amanda K Richards	25
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	T141192AA	04/30/2014 02:50	Amanda K Richards	250
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T141192AA	04/30/2014 02:26	Amanda K Richards	25
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T141192AA	04/30/2014 02:50	Amanda K Richards	250

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Analysis Report

Sample Description: MW-17D(117) Grab Water
Fairfax 26140

LL Sample # WW 7443484
LL Group # 1469982
Account # 12152

Project Name: Fairfax 26140

Collected: 04/25/2014 08:40 by CC

Submitted: 04/25/2014 16:40
Reported: 05/02/2014 16:13

Kleinfelder
1 Speen Street
Framingham MA 01701

17D05

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	**1,800**	100	100
10335	Benzene	71-43-2	< 100	100	100
10335	Bromodichloromethane	75-27-4	< 100	100	100
10335	Bromoform	75-25-2	< 400	400	100
10335	Bromomethane	74-83-9	< 100	100	100
10335	2-Butanone	78-93-3	< 1,000	1,000	100
10335	**t-Butyl alcohol**	75-65-0	**31,000**	2,000	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	< 100	100	100
10335	Chlorobenzene	108-90-7	< 100	100	100
10335	Chloroethane	75-00-3	< 100	100	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	< 100	100	100
10335	Chloromethane	74-87-3	< 100	100	100
10335	Dibromochloromethane	124-48-1	< 100	100	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	< 100	100	100
10335	1,2-Dichloroethane	107-06-2	< 100	100	100
10335	1,1-Dichloroethene	75-35-4	< 100	100	100
10335	cis-1,2-Dichloroethene	156-59-2	< 100	100	100
10335	trans-1,2-Dichloroethene	156-60-5	< 100	100	100
10335	1,2-Dichloropropane	78-87-5	< 100	100	100
10335	cis-1,3-Dichloropropene	10061-01-5	< 100	100	100
10335	trans-1,3-Dichloropropene	10061-02-6	< 100	100	100
10335	Ethyl t-butyl ether	637-92-3	< 100	100	100
10335	Ethylbenzene	100-41-4	< 100	100	100
10335	**di-Isopropyl ether**	108-20-3	**2,300**	100	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	**120,000**	1,000	1000
10335	Methylene Chloride	75-09-2	< 300	300	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	< 100	100	100
10335	Tetrachloroethene	127-18-4	< 100	100	100
10335	Toluene	108-88-3	< 100	100	100
10335	1,1,1-Trichloroethane	71-55-6	< 100	100	100
10335	1,1,2-Trichloroethane	79-00-5	< 100	100	100
10335	Trichloroethene	79-01-6	< 100	100	100
10335	Trichlorofluoromethane	75-69-4	< 100	100	100
10335	1,2,4-Trimethylbenzene	95-63-6	< 500	500	100

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Analysis Report

Sample Description: MW-17D(117) Grab Water
Fairfax 26140

LL Sample # WW 7443484
LL Group # 1469982
Account # 12152

Project Name: Fairfax 26140

Collected: 04/25/2014 08:40 by CC

Submitted: 04/25/2014 16:40
Reported: 05/02/2014 16:13

Kleinfelder
1 Speen Street
Framingham MA 01701

17D05

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	< 500	500	100
10335	Vinyl Chloride	75-01-4	< 100	100	100
10335	Xylene (Total)	1330-20-7	< 100	100	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	T141192AA	04/30/2014 05:36	Amanda K Richards	100
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	T141192AA	04/30/2014 06:00	Amanda K Richards	1000
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T141192AA	04/30/2014 05:36	Amanda K Richards	100
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T141192AA	04/30/2014 06:00	Amanda K Richards	1000

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Analysis Report

Sample Description: MW-17D(129.75) Grab Water
Fairfax 26140

LL Sample # WW 7443485
LL Group # 1469982
Account # 12152

Project Name: Fairfax 26140

Collected: 04/25/2014 07:55 by CC

Submitted: 04/25/2014 16:40
Reported: 05/02/2014 16:13

Kleinfelder
1 Speen Street
Framingham MA 01701

17D06

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	**1,800**	100	100
10335	Benzene	71-43-2	< 100	100	100
10335	Bromodichloromethane	75-27-4	< 100	100	100
10335	Bromoform	75-25-2	< 400	400	100
10335	Bromomethane	74-83-9	< 100	100	100
10335	2-Butanone	78-93-3	< 1,000	1,000	100
10335	**t-Butyl alcohol**	75-65-0	**30,000**	2,000	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	< 100	100	100
10335	Chlorobenzene	108-90-7	< 100	100	100
10335	Chloroethane	75-00-3	< 100	100	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	< 100	100	100
10335	Chloromethane	74-87-3	< 100	100	100
10335	Dibromochloromethane	124-48-1	< 100	100	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	< 100	100	100
10335	1,2-Dichloroethane	107-06-2	< 100	100	100
10335	1,1-Dichloroethene	75-35-4	< 100	100	100
10335	cis-1,2-Dichloroethene	156-59-2	< 100	100	100
10335	trans-1,2-Dichloroethene	156-60-5	< 100	100	100
10335	1,2-Dichloropropane	78-87-5	< 100	100	100
10335	cis-1,3-Dichloropropene	10061-01-5	< 100	100	100
10335	trans-1,3-Dichloropropene	10061-02-6	< 100	100	100
10335	Ethyl t-butyl ether	637-92-3	< 100	100	100
10335	Ethylbenzene	100-41-4	< 100	100	100
10335	**di-Isopropyl ether**	108-20-3	**2,300**	100	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	**120,000**	1,000	1000
10335	Methylene Chloride	75-09-2	< 300	300	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	< 100	100	100
10335	Tetrachloroethene	127-18-4	< 100	100	100
10335	Toluene	108-88-3	< 100	100	100
10335	1,1,1-Trichloroethane	71-55-6	< 100	100	100
10335	1,1,2-Trichloroethane	79-00-5	< 100	100	100
10335	Trichloroethene	79-01-6	< 100	100	100
10335	Trichlorofluoromethane	75-69-4	< 100	100	100
10335	1,2,4-Trimethylbenzene	95-63-6	< 500	500	100

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Analysis Report

Sample Description: MW-17D(129.75) Grab Water
Fairfax 26140

LL Sample # WW 7443485
LL Group # 1469982
Account # 12152

Project Name: Fairfax 26140

Collected: 04/25/2014 07:55 by CC

Submitted: 04/25/2014 16:40
Reported: 05/02/2014 16:13

Kleinfelder
1 Speen Street
Framingham MA 01701

17D06

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	< 500	500	100
10335	Vinyl Chloride	75-01-4	< 100	100	100
10335	Xylene (Total)	1330-20-7	< 100	100	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	T141192AA	04/30/2014 06:23	Amanda K Richards	100
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	T141192AA	04/30/2014 06:47	Amanda K Richards	1000
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T141192AA	04/30/2014 06:23	Amanda K Richards	100
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T141192AA	04/30/2014 06:47	Amanda K Richards	1000

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Analysis Report

Sample Description: MW-17D(147) Grab Water
Fairfax 26140

LL Sample # WW 7443486
LL Group # 1469982
Account # 12152

Project Name: Fairfax 26140

Collected: 04/25/2014 07:15 by CC

Submitted: 04/25/2014 16:40
Reported: 05/02/2014 16:13

Kleinfelder
1 Speen Street
Framingham MA 01701

17D07

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	**1,500**	100	100
10335	Benzene	71-43-2	< 100	100	100
10335	Bromodichloromethane	75-27-4	< 100	100	100
10335	Bromoform	75-25-2	< 400	400	100
10335	Bromomethane	74-83-9	< 100	100	100
10335	2-Butanone	78-93-3	< 1,000	1,000	100
10335	**t-Butyl alcohol**	75-65-0	**30,000**	2,000	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	< 100	100	100
10335	Chlorobenzene	108-90-7	< 100	100	100
10335	Chloroethane	75-00-3	< 100	100	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	< 100	100	100
10335	Chloromethane	74-87-3	< 100	100	100
10335	Dibromochloromethane	124-48-1	< 100	100	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	< 100	100	100
10335	1,2-Dichloroethane	107-06-2	< 100	100	100
10335	1,1-Dichloroethene	75-35-4	< 100	100	100
10335	cis-1,2-Dichloroethene	156-59-2	< 100	100	100
10335	trans-1,2-Dichloroethene	156-60-5	< 100	100	100
10335	1,2-Dichloropropane	78-87-5	< 100	100	100
10335	cis-1,3-Dichloropropene	10061-01-5	< 100	100	100
10335	trans-1,3-Dichloropropene	10061-02-6	< 100	100	100
10335	Ethyl t-butyl ether	637-92-3	< 100	100	100
10335	Ethylbenzene	100-41-4	< 100	100	100
10335	**di-Isopropyl ether**	108-20-3	**2,000**	100	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	**98,000**	1,000	1000
10335	Methylene Chloride	75-09-2	< 300	300	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	< 100	100	100
10335	Tetrachloroethene	127-18-4	< 100	100	100
10335	Toluene	108-88-3	< 100	100	100
10335	1,1,1-Trichloroethane	71-55-6	< 100	100	100
10335	1,1,2-Trichloroethane	79-00-5	< 100	100	100
10335	Trichloroethene	79-01-6	< 100	100	100
10335	Trichlorofluoromethane	75-69-4	< 100	100	100
10335	1,2,4-Trimethylbenzene	95-63-6	< 500	500	100

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Analysis Report

Sample Description: MW-17D(147) Grab Water
Fairfax 26140

LL Sample # WW 7443486
LL Group # 1469982
Account # 12152

Project Name: Fairfax 26140

Collected: 04/25/2014 07:15 by CC

Submitted: 04/25/2014 16:40
Reported: 05/02/2014 16:13

Kleinfelder
1 Speen Street
Framingham MA 01701

17D07

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	< 500	500	100
10335	Vinyl Chloride	75-01-4	< 100	100	100
10335	Xylene (Total)	1330-20-7	< 100	100	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	T141201AA	04/30/2014 18:57	Linda C Pape	100
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	T141201AA	04/30/2014 19:20	Linda C Pape	1000
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T141201AA	04/30/2014 18:57	Linda C Pape	100
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T141201AA	04/30/2014 19:20	Linda C Pape	1000

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Analysis Report

Sample Description: Trip Blank Water
Fairfax 26140

LL Sample # WW 7443487
LL Group # 1469982
Account # 12152

Project Name: Fairfax 26140

Collected: 04/23/2014

Submitted: 04/25/2014 16:40
Reported: 05/02/2014 16:13

Kleinfelder
1 Speen Street
Framingham MA 01701

17DTB

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	< 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	< 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	< 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
10335	Vinyl Chloride	75-01-4	< 1	1	1

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Analysis Report

Sample Description: Trip Blank Water
Fairfax 26140

LL Sample # WW 7443487
LL Group # 1469982
Account # 12152

Project Name: Fairfax 26140

Collected: 04/23/2014

Submitted: 04/25/2014 16:40
Reported: 05/02/2014 16:13

Kleinfelder
1 Speen Street
Framingham MA 01701

17DTB

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

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	T141192AA	04/30/2014 01:16	Amanda K Richards	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T141192AA	04/30/2014 01:16	Amanda K Richards	1

Quality Control Summary

Client Name: Kleinfelder Group Number: 1469982
Reported: 05/02/14 at 04:13 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: T141192AA	Sample number(s): 7443480-7443485,7443487							
Acetone	< 20	20.	ug/l	101		43-149		
Acrolein	< 100	100.	ug/l	82		52-129		
Acrylonitrile	< 20	20.	ug/l	102		62-120		
t-Amyl methyl ether	< 1	1.	ug/l	101		75-120		
Benzene	< 1	1.	ug/l	101		78-120		
Bromodichloromethane	< 1	1.	ug/l	93		73-120		
Bromoform	< 4	4.	ug/l	84		61-120		
Bromomethane	< 1	1.	ug/l	95		58-120		
2-Butanone	< 10	10.	ug/l	107		54-133		
t-Butyl alcohol	< 20	20.	ug/l	98		75-120		
n-Butylbenzene	< 5	5.	ug/l	93		68-120		
sec-Butylbenzene	< 5	5.	ug/l	93		80-120		
Carbon Tetrachloride	< 1	1.	ug/l	109		74-130		
Chlorobenzene	< 1	1.	ug/l	93		80-120		
Chloroethane	< 1	1.	ug/l	82		56-120		
2-Chloroethyl Vinyl Ether	< 10	10.	ug/l	102		54-126		
Chloroform	< 1	1.	ug/l	101		80-122		
Chloromethane	< 1	1.	ug/l	102		63-120		
Dibromochloromethane	< 1	1.	ug/l	88		72-120		
1,2-Dichlorobenzene	< 5	5.	ug/l	97		80-120		
1,3-Dichlorobenzene	< 5	5.	ug/l	92		80-120		
1,4-Dichlorobenzene	< 5	5.	ug/l	94		80-120		
1,1-Dichloroethane	< 1	1.	ug/l	96		80-120		
1,2-Dichloroethane	< 1	1.	ug/l	104		65-135		
1,1-Dichloroethene	< 1	1.	ug/l	95		76-124		
cis-1,2-Dichloroethene	< 1	1.	ug/l	96		80-120		
trans-1,2-Dichloroethene	< 1	1.	ug/l	96		80-120		
1,2-Dichloropropane	< 1	1.	ug/l	96		80-120		
cis-1,3-Dichloropropene	< 1	1.	ug/l	99		80-120		
trans-1,3-Dichloropropene	< 1	1.	ug/l	99		76-120		
Ethyl t-butyl ether	< 1	1.	ug/l	99		74-120		
Ethylbenzene	< 1	1.	ug/l	93		79-120		
di-Isopropyl ether	< 1	1.	ug/l	107		65-120		
Isopropylbenzene	< 5	5.	ug/l	95		77-120		
p-Isopropyltoluene	< 5	5.	ug/l	95		80-120		
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	103		75-120		
Methylene Chloride	< 3	3.	ug/l	95		80-120		
Naphthalene	< 5	5.	ug/l	99		47-126		
n-Propylbenzene	< 5	5.	ug/l	98		80-120		
1,1,2,2-Tetrachloroethane	< 1	1.	ug/l	96		70-120		
Tetrachloroethene	< 1	1.	ug/l	94		80-120		
Toluene	< 1	1.	ug/l	90		80-120		
1,1,1-Trichloroethane	< 1	1.	ug/l	98		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: 1469982
Reported: 05/02/14 at 04:13 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	91		80-120		
Trichloroethene	< 1	1.	ug/l	98		80-120		
Trichlorofluoromethane	< 1	1.	ug/l	99		65-130		
1,2,4-Trimethylbenzene	< 5	5.	ug/l	99		74-120		
1,3,5-Trimethylbenzene	< 5	5.	ug/l	98		74-120		
Vinyl Chloride	< 1	1.	ug/l	102		63-120		
Xylene (Total)	< 1	1.	ug/l	92		80-120		
Batch number: T141201AA	Sample number(s): 7443486							
Acetone	< 20	20.	ug/l	104	107	43-149	3	30
Acrolein	< 100	100.	ug/l	82	84	52-129	2	30
Acrylonitrile	< 20	20.	ug/l	103	103	62-120	0	30
t-Amyl methyl ether	< 1	1.	ug/l	103	103	75-120	0	30
Benzene	< 1	1.	ug/l	101	102	78-120	1	30
Bromodichloromethane	< 1	1.	ug/l	95	95	73-120	0	30
Bromoform	< 4	4.	ug/l	94	95	61-120	1	30
Bromomethane	< 1	1.	ug/l	92	91	58-120	1	30
2-Butanone	< 10	10.	ug/l	108	108	54-133	0	30
t-Butyl alcohol	< 20	20.	ug/l	100	102	75-120	2	30
n-Butylbenzene	< 5	5.	ug/l	96	94	68-120	2	30
sec-Butylbenzene	< 5	5.	ug/l	98	96	80-120	1	30
Carbon Tetrachloride	< 1	1.	ug/l	108	109	74-130	1	30
Chlorobenzene	< 1	1.	ug/l	103	103	80-120	1	30
Chloroethane	< 1	1.	ug/l	84	81	56-120	3	30
2-Chloroethyl Vinyl Ether	< 10	10.	ug/l	105	103	54-126	2	30
Chloroform	< 1	1.	ug/l	100	101	80-122	1	30
Chloromethane	< 1	1.	ug/l	92	93	63-120	1	30
Dibromochloromethane	< 1	1.	ug/l	97	96	72-120	0	30
1,2-Dichlorobenzene	< 5	5.	ug/l	100	97	80-120	2	30
1,3-Dichlorobenzene	< 5	5.	ug/l	100	98	80-120	2	30
1,4-Dichlorobenzene	< 5	5.	ug/l	99	98	80-120	2	30
1,1-Dichloroethane	< 1	1.	ug/l	104	102	80-120	2	30
1,2-Dichloroethane	< 1	1.	ug/l	107	107	65-135	0	30
1,1-Dichloroethene	< 1	1.	ug/l	106	100	76-124	5	30
cis-1,2-Dichloroethene	< 1	1.	ug/l	101	101	80-120	0	30
trans-1,2-Dichloroethene	< 1	1.	ug/l	103	104	80-120	0	30
1,2-Dichloropropane	< 1	1.	ug/l	103	101	80-120	2	30
cis-1,3-Dichloropropene	< 1	1.	ug/l	103	102	80-120	0	30
trans-1,3-Dichloropropene	< 1	1.	ug/l	105	105	76-120	0	30
Ethyl t-butyl ether	< 1	1.	ug/l	103	102	74-120	1	30
Ethylbenzene	< 1	1.	ug/l	101	100	79-120	2	30
di-Isopropyl ether	< 1	1.	ug/l	104	105	65-120	1	30
Isopropylbenzene	< 5	5.	ug/l	105	101	77-120	3	30
p-Isopropyltoluene	< 5	5.	ug/l	97	96	80-120	1	30
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	107	106	75-120	0	30
Methylene Chloride	< 3	3.	ug/l	101	100	80-120	1	30
Naphthalene	< 5	5.	ug/l	95	94	47-126	1	30
n-Propylbenzene	< 5	5.	ug/l	98	98	80-120	0	30
1,1,2,2-Tetrachloroethane	< 1	1.	ug/l	93	94	70-120	2	30
Tetrachloroethene	< 1	1.	ug/l	104	104	80-120	1	30
Toluene	< 1	1.	ug/l	98	98	80-120	0	30
1,1,1-Trichloroethane	< 1	1.	ug/l	105	101	66-126	4	30
1,1,2-Trichloroethane	< 1	1.	ug/l	102	98	80-120	3	30
Trichloroethene	< 1	1.	ug/l	103	103	80-120	0	30
Trichlorofluoromethane	< 1	1.	ug/l	97	96	65-130	1	30
1,2,4-Trimethylbenzene	< 5	5.	ug/l	103	101	74-120	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: 1469982
Reported: 05/02/14 at 04:13 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	99	99	74-120	1	30
Vinyl Chloride	< 1	1.	ug/l	99	96	63-120	3	30
Xylene (Total)	< 1	1.	ug/l	103	102	80-120	0	30

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: T141192AA	Sample number(s): 7443480-7443485,7443487 UNSPK: P443623								
Acetone	101	97	35-144	4	30				
Acrolein	91	93	39-136	2	30				
Acrylonitrile	104	102	51-125	2	30				
t-Amyl methyl ether	111	110	65-117	0	30				
Benzene	120	122	72-134	1	30				
Bromodichloromethane	110	112	73-125	2	30				
Bromoform	98	100	48-118	2	30				
Bromomethane	101	97	47-129	4	30				
2-Butanone	108	110	44-135	2	30				
t-Butyl alcohol	107	109	67-119	2	30				
n-Butylbenzene	109	115	74-134	5	30				
sec-Butylbenzene	113	118	74-137	4	30				
Carbon Tetrachloride	131	133	75-148	2	30				
Chlorobenzene	106	111	87-124	5	30				
Chloroethane	93	89	55-130	5	30				
2-Chloroethyl Vinyl Ether	0*	0*	10-151	0	30				
Chloroform	119	120	81-134	1	30				
Chloromethane	110	104	61-125	5	30				
Dibromochloromethane	106	109	74-116	2	30				
1,2-Dichlorobenzene	106	112	84-119	6	30				
1,3-Dichlorobenzene	107	112	86-121	5	30				
1,4-Dichlorobenzene	111	115	85-121	4	30				
1,1-Dichloroethane	111	110	84-129	1	30				
1,2-Dichloroethane	113	113	63-142	0	30				
1,1-Dichloroethene	124	119	79-137	4	30				
cis-1,2-Dichloroethene	114	112	80-141	2	30				
trans-1,2-Dichloroethene	119	118	86-131	1	30				
1,2-Dichloropropane	106	108	83-124	1	30				
cis-1,3-Dichloropropene	114	117*	70-116	2	30				
trans-1,3-Dichloropropene	109	112	74-119	3	30				
Ethyl t-butyl ether	111	112	74-122	1	30				
Ethylbenzene	109	112	71-134	2	30				
di-Isopropyl ether	123	122	70-129	0	30				
Isopropylbenzene	108	112	75-128	3	30				
p-Isopropyltoluene	120	123	76-123	2	30				
Methyl Tertiary Butyl Ether	116	114	72-126	2	30				
Methylene Chloride	118	115	78-133	3	30				
Naphthalene	111	118	52-125	6	30				
n-Propylbenzene	113	120	74-134	6	30				
1,1,2,2-Tetrachloroethane	104	110	72-128	6	30				
Tetrachloroethene	116	119	80-128	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: 1469982
Reported: 05/02/14 at 04:13 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
Toluene	105	108	80-125	3	30				
1,1,1-Trichloroethane	119	115	69-140	3	30				
1,1,2-Trichloroethane	97	102	71-141	5	30				
Trichloroethene	116	118	88-133	1	30				
Trichlorofluoromethane	116	111	63-163	4	30				
1,2,4-Trimethylbenzene	111	117	72-130	5	30				
1,3,5-Trimethylbenzene	109	117	65-132	7	30				
Vinyl Chloride	109	103	66-133	6	30				
Xylene (Total)	105	108	79-125	3	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: T141192AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7443480	109	104	103	106
7443481	108	105	101	106
7443482	111	100	98	101
7443483	109	101	101	102
7443484	109	100	103	105
7443485	109	102	102	107
7443487	111	102	100	104
Blank	108	101	95	96
LCS	107	100	95	96
MS	107	100	92	93
MSD	105	98	93	95
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 8260 VOCs
Batch number: T141201AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7443486	105	96	94	95
Blank	106	103	96	97
LCS	104	101	98	101
LCSD	107	100	98	100
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.

C-1

Lancaster Laboratories

Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 12152
Group #: 1469982 Sample #: 7443480-87

Client: Fairfax Petroleum | Acct. #:
Project Name/#: 26140 | PWSID #:
Project Manager: Mark C. Steele | P.O. #: 51141-294572
Sampler: Chas Cresd | 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-17D (75)	4/25/14	1045	X			X		3	X										
MW-17D (81)		1025	X			X		3	X										
MW-17D (87.75)		0950	X			X		3	X										
MW-17D (92)		0920	X			X		3	X										
MW-17D (117)		0840	X			X		3	X										
MW-17D (129.75)		0755	X			X		3	X										
MW-17D (147)		0715	X			X		3	X										
Trip Blank	4/23/14					X		2	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
Chas Cresd	4/25/14	12:42	[signature]	4-25-14	12:42
[signature]	4-25-14	1640			
			Pat G	4/25/14	1640

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

Explanation of Symbols and Abbreviations

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

RL	[illegible]	**BMQL**	[illegible]
N.D.	[illegible]	**MPN**	[illegible]
TNTC	[illegible]	**CP Units**	[illegible]
IU	[illegible]	**NTU**	[illegible]
umhos/cm	[illegible]	**ng**	[illegible]
C	[illegible]	**F**	[illegible]
meq	[illegible]	**lb.**	[illegible]
g	[illegible]	**kg**	[illegible]
µg	[illegible]	**mg**	[illegible]
mL	[illegible]	**L**	[illegible]
m3	[illegible]	**µL**	[illegible]
		pg/L	[illegible]

< [illegible] of [illegible]

> [illegible]

ppm [illegible]

ppb [illegible]

Dry weight basis [illegible]

Data Qualifiers:

C – [illegible]

J - [illegible]

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	[illegible]	**B**	[illegible]
B	[illegible]	**E**	[illegible]
C	[illegible]	**M**	[illegible]
D	[illegible]	**N**	[illegible]
E	[illegible]	**S**	[illegible]
N	[illegible]	**U**	[illegible]
P	[illegible]	**W**	[illegible]
U	[illegible]	*****	[illegible]
X,Y,Z	[illegible]	**+**	[illegible]

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

[illegible]

[illegible]

[illegible]

WARRANTY AND LIMITS OF LIABILITY [illegible]

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Kleinfelder
1 Speen Street
Framingham MA 01701

June 19, 2014

Project: Fairfax 26140

Submittal Date: 06/12/2014
Group Number: 1481483
PO Number: 51141-294573
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
MW-17D (75) Grab Water	7497170
MW-17D (81) Grab Water	7497171
MW-17D (87.75) Grab Water	7497172
MW-17D (92) Grab Water	7497173
MW-17D (117) Grab Water	7497174
MW-17D (129.75) Grab Water	7497175
MW-17D (147) Grab Water	7497176
EB-1 Grab Water	7497177
EB-2 Grab Water	7497178

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
ELECTRONIC COPY TO	Kleinfelder	Attn: Nathan Stevens

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

eurofins
Lancaster Laboratories Environmental
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Analysis Report

Sample Description: MW-17D (75) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7497170
LL Group # 1481483
Account # 12152

Project Name: Fairfax 26140

Collected: 06/11/2014 13:20 by TB

Submitted: 06/12/2014 14:55
Reported: 06/19/2014 10:10

Kleinfelder
1 Speen Street
Framingham MA 01701

FFX01

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	**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	**2**	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	**20**	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	< 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-17D (75) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7497170
LL Group # 1481483
Account # 12152

Project Name: Fairfax 26140

Collected: 06/11/2014 13:20 by TB

Submitted: 06/12/2014 14:55
Reported: 06/19/2014 10:10

Kleinfelder
1 Speen Street
Framingham MA 01701

FFX01

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	W141671AA	06/17/2014 01:25	Christopher G Torres	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W141671AA	06/17/2014 01:25	Christopher G Torres	1

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Analysis Report

Sample Description: MW-17D (81) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7497171
LL Group # 1481483
Account # 12152

Project Name: Fairfax 26140

Collected: 06/11/2014 12:00 by TB

Submitted: 06/12/2014 14:55
Reported: 06/19/2014 10:10

Kleinfelder
1 Speen Street
Framingham MA 01701

FFX02

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	**60**	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	**1,800**	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	< 10	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	**70**	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	**5,000**	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: MW-17D (81) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7497171
LL Group # 1481483
Account # 12152

Project Name: Fairfax 26140

Collected: 06/11/2014 12:00 by TB

Submitted: 06/12/2014 14:55
Reported: 06/19/2014 10:10

Kleinfelder
1 Speen Street
Framingham MA 01701

FFX02

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

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	W141671AA	06/17/2014 01:49	Christopher G Torres	10
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	W141671AA	06/17/2014 02:12	Christopher G Torres	100
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W141671AA	06/17/2014 01:49	Christopher G Torres	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W141671AA	06/17/2014 02:12	Christopher G Torres	100

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Analysis Report

Sample Description: MW-17D (87.75) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7497172
LL Group # 1481483
Account # 12152

Project Name: Fairfax 26140

Collected: 06/11/2014 09:50 by TB

Submitted: 06/12/2014 14:55
Reported: 06/19/2014 10:10

Kleinfelder
1 Speen Street
Framingham MA 01701

FFX03

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	**170**	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	**2,600**	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	**160**	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	**240**	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	**12,000**	250	250
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-17D (87.75) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7497172
LL Group # 1481483
Account # 12152

Project Name: Fairfax 26140

Collected: 06/11/2014 09:50 by TB

Submitted: 06/12/2014 14:55
Reported: 06/19/2014 10:10

Kleinfelder
1 Speen Street
Framingham MA 01701

FFX03

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

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	W141671AA	06/17/2014 03:22	Christopher G Torres	25
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	W141671AA	06/17/2014 03:45	Christopher G Torres	250
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W141671AA	06/17/2014 03:22	Christopher G Torres	25
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W141671AA	06/17/2014 03:45	Christopher G Torres	250

Sample Description: MW-17D (92) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7497173
LL Group # 1481483
Account # 12152

Project Name: Fairfax 26140

Collected: 06/10/2014 18:10 by TB

Submitted: 06/12/2014 14:55
Reported: 06/19/2014 10:10

Kleinfelder
1 Speen Street
Framingham MA 01701

FFX04

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	**200**	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	**2,200**	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	**59**	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	**320**	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	**11,000**	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: MW-17D (92) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7497173
LL Group # 1481483
Account # 12152

Project Name: Fairfax 26140

Collected: 06/10/2014 18:10 by TB

Submitted: 06/12/2014 14:55
Reported: 06/19/2014 10:10

Kleinfelder
1 Speen Street
Framingham MA 01701

FFX04

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

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	W141671AA	06/17/2014 02:36	Christopher G Torres	10
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	W141671AA	06/17/2014 02:59	Christopher G Torres	100
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W141671AA	06/17/2014 02:36	Christopher G Torres	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W141671AA	06/17/2014 02:59	Christopher G Torres	100

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Analysis Report

Sample Description: MW-17D (117) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7497174
LL Group # 1481483
Account # 12152

Project Name: Fairfax 26140

Collected: 06/10/2014 16:40 by TB

Submitted: 06/12/2014 14:55
Reported: 06/19/2014 10:10

Kleinfelder
1 Speen Street
Framingham MA 01701

FFX05

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	< 1,000	1,000	50
10335	Acrolein	107-02-8	< 5,000	5,000	50
10335	Acrylonitrile	107-13-1	< 1,000	1,000	50
10335	**t-Amyl methyl ether**	994-05-8	**740**	50	50
10335	Benzene	71-43-2	< 50	50	50
10335	Bromodichloromethane	75-27-4	< 50	50	50
10335	Bromoform	75-25-2	< 200	200	50
10335	Bromomethane	74-83-9	< 50	50	50
10335	2-Butanone	78-93-3	< 500	500	50
10335	**t-Butyl alcohol**	75-65-0	**14,000**	1,000	50
10335	n-Butylbenzene	104-51-8	< 250	250	50
10335	sec-Butylbenzene	135-98-8	< 250	250	50
10335	Carbon Tetrachloride	56-23-5	< 50	50	50
10335	Chlorobenzene	108-90-7	< 50	50	50
10335	Chloroethane	75-00-3	< 50	50	50
10335	2-Chloroethyl Vinyl Ether	110-75-8	< 500	500	50
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	< 50	50	50
10335	Chloromethane	74-87-3	< 50	50	50
10335	Dibromochloromethane	124-48-1	< 50	50	50
10335	1,2-Dichlorobenzene	95-50-1	< 250	250	50
10335	1,3-Dichlorobenzene	541-73-1	< 250	250	50
10335	1,4-Dichlorobenzene	106-46-7	< 250	250	50
10335	1,1-Dichloroethane	75-34-3	< 50	50	50
10335	1,2-Dichloroethane	107-06-2	< 50	50	50
10335	1,1-Dichloroethene	75-35-4	< 50	50	50
10335	**cis-1,2-Dichloroethene**	156-59-2	**110**	50	50
10335	trans-1,2-Dichloroethene	156-60-5	< 50	50	50
10335	1,2-Dichloropropane	78-87-5	< 50	50	50
10335	cis-1,3-Dichloropropene	10061-01-5	< 50	50	50
10335	trans-1,3-Dichloropropene	10061-02-6	< 50	50	50
10335	Ethyl t-butyl ether	637-92-3	< 50	50	50
10335	Ethylbenzene	100-41-4	< 50	50	50
10335	**di-Isopropyl ether**	108-20-3	**1,000**	50	50
10335	Isopropylbenzene	98-82-8	< 250	250	50
10335	p-Isopropyltoluene	99-87-6	< 250	250	50
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**54,000**	500	500
10335	Methylene Chloride	75-09-2	< 150	150	50
10335	Naphthalene	91-20-3	< 250	250	50
10335	n-Propylbenzene	103-65-1	< 250	250	50
10335	1,1,2,2-Tetrachloroethane	79-34-5	< 50	50	50
10335	Tetrachloroethene	127-18-4	< 50	50	50
10335	Toluene	108-88-3	< 50	50	50
10335	1,1,1-Trichloroethane	71-55-6	< 50	50	50
10335	1,1,2-Trichloroethane	79-00-5	< 50	50	50
10335	Trichloroethene	79-01-6	< 50	50	50
10335	Trichlorofluoromethane	75-69-4	< 50	50	50
10335	1,2,4-Trimethylbenzene	95-63-6	< 250	250	50

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Analysis Report

Sample Description: MW-17D (117) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7497174
LL Group # 1481483
Account # 12152

Project Name: Fairfax 26140

Collected: 06/10/2014 16:40 by TB

Submitted: 06/12/2014 14:55
Reported: 06/19/2014 10:10

Kleinfelder
1 Speen Street
Framingham MA 01701

FFX05

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	< 250	250	50
10335	Vinyl Chloride	75-01-4	< 50	50	50
10335	Xylene (Total)	1330-20-7	< 50	50	50

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	W141691AA	06/18/2014 08:46	Stephanie A Selis	50
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	W141691AA	06/18/2014 09:09	Stephanie A Selis	500
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W141691AA	06/18/2014 08:46	Stephanie A Selis	50
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W141691AA	06/18/2014 09:09	Stephanie A Selis	500

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Analysis Report

Sample Description: MW-17D (129.75) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7497175
LL Group # 1481483
Account # 12152

Project Name: Fairfax 26140

Collected: 06/10/2014 15:00 by TB

Submitted: 06/12/2014 14:55
Reported: 06/19/2014 10:10

Kleinfelder
1 Speen Street
Framingham MA 01701

FFX06

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	< 1,000	1,000	50
10335	Acrolein	107-02-8	< 5,000	5,000	50
10335	Acrylonitrile	107-13-1	< 1,000	1,000	50
10335	**t-Amyl methyl ether**	994-05-8	**690**	50	50
10335	Benzene	71-43-2	< 50	50	50
10335	Bromodichloromethane	75-27-4	< 50	50	50
10335	Bromoform	75-25-2	< 200	200	50
10335	Bromomethane	74-83-9	< 50	50	50
10335	2-Butanone	78-93-3	< 500	500	50
10335	**t-Butyl alcohol**	75-65-0	**17,000**	1,000	50
10335	n-Butylbenzene	104-51-8	< 250	250	50
10335	sec-Butylbenzene	135-98-8	< 250	250	50
10335	Carbon Tetrachloride	56-23-5	< 50	50	50
10335	Chlorobenzene	108-90-7	< 50	50	50
10335	Chloroethane	75-00-3	< 50	50	50
10335	2-Chloroethyl Vinyl Ether	110-75-8	< 500	500	50
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	< 50	50	50
10335	Chloromethane	74-87-3	< 50	50	50
10335	Dibromochloromethane	124-48-1	< 50	50	50
10335	1,2-Dichlorobenzene	95-50-1	< 250	250	50
10335	1,3-Dichlorobenzene	541-73-1	< 250	250	50
10335	1,4-Dichlorobenzene	106-46-7	< 250	250	50
10335	1,1-Dichloroethane	75-34-3	< 50	50	50
10335	1,2-Dichloroethane	107-06-2	< 50	50	50
10335	1,1-Dichloroethene	75-35-4	< 50	50	50
10335	cis-1,2-Dichloroethene	156-59-2	< 50	50	50
10335	trans-1,2-Dichloroethene	156-60-5	< 50	50	50
10335	1,2-Dichloropropane	78-87-5	< 50	50	50
10335	cis-1,3-Dichloropropene	10061-01-5	< 50	50	50
10335	trans-1,3-Dichloropropene	10061-02-6	< 50	50	50
10335	Ethyl t-butyl ether	637-92-3	< 50	50	50
10335	Ethylbenzene	100-41-4	< 50	50	50
10335	**di-Isopropyl ether**	108-20-3	**830**	50	50
10335	Isopropylbenzene	98-82-8	< 250	250	50
10335	p-Isopropyltoluene	99-87-6	< 250	250	50
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**49,000**	500	500
10335	Methylene Chloride	75-09-2	< 150	150	50
10335	Naphthalene	91-20-3	< 250	250	50
10335	n-Propylbenzene	103-65-1	< 250	250	50
10335	1,1,2,2-Tetrachloroethane	79-34-5	< 50	50	50
10335	Tetrachloroethene	127-18-4	< 50	50	50
10335	Toluene	108-88-3	< 50	50	50
10335	1,1,1-Trichloroethane	71-55-6	< 50	50	50
10335	1,1,2-Trichloroethane	79-00-5	< 50	50	50
10335	Trichloroethene	79-01-6	< 50	50	50
10335	Trichlorofluoromethane	75-69-4	< 50	50	50
10335	1,2,4-Trimethylbenzene	95-63-6	< 250	250	50

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Analysis Report

Sample Description: MW-17D (129.75) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7497175
LL Group # 1481483
Account # 12152

Project Name: Fairfax 26140

Collected: 06/10/2014 15:00 by TB

Submitted: 06/12/2014 14:55
Reported: 06/19/2014 10:10

Kleinfelder
1 Speen Street
Framingham MA 01701

FFX06

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	< 250	250	50
10335	Vinyl Chloride	75-01-4	< 50	50	50
10335	Xylene (Total)	1330-20-7	< 50	50	50

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	W141691AA	06/18/2014 09:32	Stephanie A Selis	50
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	W141691AA	06/18/2014 09:56	Stephanie A Selis	500
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W141691AA	06/18/2014 09:32	Stephanie A Selis	50
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W141691AA	06/18/2014 09:56	Stephanie A Selis	500

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Analysis Report

Sample Description: MW-17D (147) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7497176
LL Group # 1481483
Account # 12152

Project Name: Fairfax 26140

Collected: 06/11/2014 08:10 by TB

Submitted: 06/12/2014 14:55
Reported: 06/19/2014 10:10

Kleinfelder
1 Speen Street
Framingham MA 01701

FFX07

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	**1,200**	100	100
10335	Benzene	71-43-2	< 100	100	100
10335	Bromodichloromethane	75-27-4	< 100	100	100
10335	Bromoform	75-25-2	< 400	400	100
10335	Bromomethane	74-83-9	< 100	100	100
10335	2-Butanone	78-93-3	< 1,000	1,000	100
10335	**t-Butyl alcohol**	75-65-0	**22,000**	2,000	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	< 100	100	100
10335	Chlorobenzene	108-90-7	< 100	100	100
10335	Chloroethane	75-00-3	< 100	100	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	< 100	100	100
10335	Chloromethane	74-87-3	< 100	100	100
10335	Dibromochloromethane	124-48-1	< 100	100	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	< 100	100	100
10335	1,2-Dichloroethane	107-06-2	< 100	100	100
10335	1,1-Dichloroethene	75-35-4	< 100	100	100
10335	cis-1,2-Dichloroethene	156-59-2	< 100	100	100
10335	trans-1,2-Dichloroethene	156-60-5	< 100	100	100
10335	1,2-Dichloropropane	78-87-5	< 100	100	100
10335	cis-1,3-Dichloropropene	10061-01-5	< 100	100	100
10335	trans-1,3-Dichloropropene	10061-02-6	< 100	100	100
10335	Ethyl t-butyl ether	637-92-3	< 100	100	100
10335	Ethylbenzene	100-41-4	< 100	100	100
10335	**di-Isopropyl ether**	108-20-3	**1,500**	100	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	**82,000**	1,000	1000
10335	Methylene Chloride	75-09-2	< 300	300	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	< 100	100	100
10335	Tetrachloroethene	127-18-4	< 100	100	100
10335	Toluene	108-88-3	< 100	100	100
10335	1,1,1-Trichloroethane	71-55-6	< 100	100	100
10335	1,1,2-Trichloroethane	79-00-5	< 100	100	100
10335	Trichloroethene	79-01-6	< 100	100	100
10335	Trichlorofluoromethane	75-69-4	< 100	100	100
10335	1,2,4-Trimethylbenzene	95-63-6	< 500	500	100

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Analysis Report

Sample Description: MW-17D (147) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7497176
LL Group # 1481483
Account # 12152

Project Name: Fairfax 26140

Collected: 06/11/2014 08:10 by TB

Submitted: 06/12/2014 14:55
Reported: 06/19/2014 10:10

Kleinfelder
1 Speen Street
Framingham MA 01701

FFX07

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	< 500	500	100
10335	Vinyl Chloride	75-01-4	< 100	100	100
10335	Xylene (Total)	1330-20-7	< 100	100	100

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	W141681AA	06/17/2014 18:03	Chelsea B Stong	100
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	W141681AA	06/17/2014 18:26	Chelsea B Stong	1000
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W141681AA	06/17/2014 18:03	Chelsea B Stong	100
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W141681AA	06/17/2014 18:26	Chelsea B Stong	1000

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Analysis Report

Sample Description: EB-1 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7497177
LL Group # 1481483
Account # 12152

Project Name: Fairfax 26140

Collected: 06/10/2014 12:50 by TB

Submitted: 06/12/2014 14:55
Reported: 06/19/2014 10:10

Kleinfelder
1 Speen Street
Framingham MA 01701

FFX08

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	< 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	< 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	**3**	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	< 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: EB-1 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7497177
LL Group # 1481483
Account # 12152

Project Name: Fairfax 26140

Collected: 06/10/2014 12:50 by TB

Submitted: 06/12/2014 14:55
Reported: 06/19/2014 10:10

Kleinfelder
1 Speen Street
Framingham MA 01701

FFX08

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	W141681AA	06/17/2014 16:29	Chelsea B Stong	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W141681AA	06/17/2014 16:29	Chelsea B Stong	1

Sample Description: EB-2 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7497178
LL Group # 1481483
Account # 12152

Project Name: Fairfax 26140

Collected: 06/10/2014 15:40 by TB

Submitted: 06/12/2014 14:55
Reported: 06/19/2014 10:10

Kleinfelder
1 Speen Street
Framingham MA 01701

FFX09

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	< 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	< 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	**3**	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	< 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: EB-2 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7497178
LL Group # 1481483
Account # 12152

Project Name: Fairfax 26140

Collected: 06/10/2014 15:40 by TB

Submitted: 06/12/2014 14:55
Reported: 06/19/2014 10:10

Kleinfelder
1 Speen Street
Framingham MA 01701

FFX09

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	W141681AA	06/17/2014 16:52	Chelsea B Stong	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W141681AA	06/17/2014 16:52	Chelsea B Stong	1

Quality Control Summary

Client Name: Kleinfelder Group Number: 1481483
Reported: 06/19/14 at 10:10 AM

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: W141671AA	Sample number(s): 7497170-7497173							
Acetone	< 20	20.	ug/l	77		43-149		
Acrolein	< 100	100.	ug/l	87		52-129		
Acrylonitrile	< 20	20.	ug/l	76		62-120		
t-Amyl methyl ether	< 1	1.	ug/l	91		75-120		
Benzene	< 1	1.	ug/l	99		78-120		
Bromodichloromethane	< 1	1.	ug/l	89		73-120		
Bromoform	< 4	4.	ug/l	79		61-120		
Bromomethane	< 1	1.	ug/l	99		58-120		
2-Butanone	< 10	10.	ug/l	75		54-133		
t-Butyl alcohol	< 20	20.	ug/l	98		75-120		
n-Butylbenzene	< 5	5.	ug/l	105		68-120		
sec-Butylbenzene	< 5	5.	ug/l	104		80-120		
Carbon Tetrachloride	< 1	1.	ug/l	104		74-130		
Chlorobenzene	< 1	1.	ug/l	100		80-120		
Chloroethane	< 1	1.	ug/l	97		56-120		
2-Chloroethyl Vinyl Ether	< 10	10.	ug/l	105		54-126		
Chloroform	< 1	1.	ug/l	97		80-122		
Chloromethane	< 1	1.	ug/l	100		63-120		
Dibromochloromethane	< 1	1.	ug/l	91		72-120		
1,2-Dichlorobenzene	< 5	5.	ug/l	97		80-120		
1,3-Dichlorobenzene	< 5	5.	ug/l	94		80-120		
1,4-Dichlorobenzene	< 5	5.	ug/l	98		80-120		
1,1-Dichloroethane	< 1	1.	ug/l	97		80-120		
1,2-Dichloroethane	< 1	1.	ug/l	100		65-135		
1,1-Dichloroethene	< 1	1.	ug/l	100		76-124		
cis-1,2-Dichloroethene	< 1	1.	ug/l	99		80-120		
trans-1,2-Dichloroethene	< 1	1.	ug/l	101		80-120		
1,2-Dichloropropane	< 1	1.	ug/l	94		80-120		
cis-1,3-Dichloropropene	< 1	1.	ug/l	93		80-120		
trans-1,3-Dichloropropene	< 1	1.	ug/l	92		76-120		
Ethyl t-butyl ether	< 1	1.	ug/l	90		74-120		
Ethylbenzene	< 1	1.	ug/l	96		79-120		
di-Isopropyl ether	< 1	1.	ug/l	90		65-120		
Isopropylbenzene	< 5	5.	ug/l	94		77-120		
p-Isopropyltoluene	< 5	5.	ug/l	100		80-120		
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	94		75-120		
Methylene Chloride	< 3	3.	ug/l	100		80-120		
Naphthalene	< 5	5.	ug/l	84		47-126		
n-Propylbenzene	< 5	5.	ug/l	97		80-120		
1,1,2,2-Tetrachloroethane	< 1	1.	ug/l	90		70-120		
Tetrachloroethene	< 1	1.	ug/l	99		80-120		
Toluene	< 1	1.	ug/l	100		80-120		
1,1,1-Trichloroethane	< 1	1.	ug/l	100		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: 1481483
Reported: 06/19/14 at 10:10 AM

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	94		80-120		
Trichloroethene	< 1	1.	ug/l	104		80-120		
Trichlorofluoromethane	< 1	1.	ug/l	110		65-130		
1,2,4-Trimethylbenzene	< 5	5.	ug/l	98		74-120		
1,3,5-Trimethylbenzene	< 5	5.	ug/l	97		74-120		
Vinyl Chloride	< 1	1.	ug/l	97		63-120		
Xylene (Total)	< 1	1.	ug/l	95		80-120		
Batch number: W141681AA	Sample number(s): 7497176-7497178							
Acetone	< 20	20.	ug/l	73		43-149		
Acrolein	< 100	100.	ug/l	83		52-129		
Acrylonitrile	< 20	20.	ug/l	73		62-120		
t-Amyl methyl ether	< 1	1.	ug/l	89		75-120		
Benzene	< 1	1.	ug/l	94		78-120		
Bromodichloromethane	< 1	1.	ug/l	92		73-120		
Bromoform	< 4	4.	ug/l	80		61-120		
Bromomethane	< 1	1.	ug/l	95		58-120		
2-Butanone	< 10	10.	ug/l	72		54-133		
t-Butyl alcohol	< 20	20.	ug/l	97		75-120		
n-Butylbenzene	< 5	5.	ug/l	98		68-120		
sec-Butylbenzene	< 5	5.	ug/l	98		80-120		
Carbon Tetrachloride	< 1	1.	ug/l	101		74-130		
Chlorobenzene	< 1	1.	ug/l	97		80-120		
Chloroethane	< 1	1.	ug/l	91		56-120		
2-Chloroethyl Vinyl Ether	< 10	10.	ug/l	104		54-126		
Chloroform	< 1	1.	ug/l	96		80-122		
Chloromethane	< 1	1.	ug/l	88		63-120		
Dibromochloromethane	< 1	1.	ug/l	90		72-120		
1,2-Dichlorobenzene	< 5	5.	ug/l	94		80-120		
1,3-Dichlorobenzene	< 5	5.	ug/l	92		80-120		
1,4-Dichlorobenzene	< 5	5.	ug/l	92		80-120		
1,1-Dichloroethane	< 1	1.	ug/l	92		80-120		
1,2-Dichloroethane	< 1	1.	ug/l	103		65-135		
1,1-Dichloroethene	< 1	1.	ug/l	91		76-124		
cis-1,2-Dichloroethene	< 1	1.	ug/l	94		80-120		
trans-1,2-Dichloroethene	< 1	1.	ug/l	101		80-120		
1,2-Dichloropropane	< 1	1.	ug/l	88		80-120		
cis-1,3-Dichloropropene	< 1	1.	ug/l	90		80-120		
trans-1,3-Dichloropropene	< 1	1.	ug/l	91		76-120		
Ethyl t-butyl ether	< 1	1.	ug/l	86		74-120		
Ethylbenzene	< 1	1.	ug/l	93		79-120		
di-Isopropyl ether	< 1	1.	ug/l	86		65-120		
Isopropylbenzene	< 5	5.	ug/l	92		77-120		
p-Isopropyltoluene	< 5	5.	ug/l	94		80-120		
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	93		75-120		
Methylene Chloride	< 3	3.	ug/l	95		80-120		
Naphthalene	< 5	5.	ug/l	81		47-126		
n-Propylbenzene	< 5	5.	ug/l	91		80-120		
1,1,2,2-Tetrachloroethane	< 1	1.	ug/l	85		70-120		
Tetrachloroethene	< 1	1.	ug/l	96		80-120		
Toluene	< 1	1.	ug/l	97		80-120		
1,1,1-Trichloroethane	< 1	1.	ug/l	96		66-126		
1,1,2-Trichloroethane	< 1	1.	ug/l	95		80-120		
Trichloroethene	< 1	1.	ug/l	99		80-120		
Trichlorofluoromethane	< 1	1.	ug/l	107		65-130		
1,2,4-Trimethylbenzene	< 5	5.	ug/l	91		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: 1481483
Reported: 06/19/14 at 10:10 AM

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	91		74-120		
Vinyl Chloride	< 1	1.	ug/l	91		63-120		
Xylene (Total)	< 1	1.	ug/l	92		80-120		
Batch number: W141691AA	Sample number(s): 7497174-7497175							
Acetone	< 20	20.	ug/l	74	71	43-149	5	30
Acrolein	< 100	100.	ug/l	87	85	52-129	2	30
Acrylonitrile	< 20	20.	ug/l	75	73	62-120	3	30
t-Amyl methyl ether	< 1	1.	ug/l	92	92	75-120	1	30
Benzene	< 1	1.	ug/l	100	96	78-120	4	30
Bromodichloromethane	< 1	1.	ug/l	96	92	73-120	4	30
Bromoform	< 4	4.	ug/l	82	82	61-120	1	30
Bromomethane	< 1	1.	ug/l	100	98	58-120	2	30
2-Butanone	< 10	10.	ug/l	75	74	54-133	2	30
t-Butyl alcohol	< 20	20.	ug/l	102	99	75-120	3	30
n-Butylbenzene	< 5	5.	ug/l	105	101	68-120	4	30
sec-Butylbenzene	< 5	5.	ug/l	103	103	80-120	0	30
Carbon Tetrachloride	< 1	1.	ug/l	102	98	74-130	3	30
Chlorobenzene	< 1	1.	ug/l	99	100	80-120	1	30
Chloroethane	< 1	1.	ug/l	96	94	56-120	3	30
2-Chloroethyl Vinyl Ether	< 10	10.	ug/l	109	109	54-126	0	30
Chloroform	< 1	1.	ug/l	102	98	80-122	5	30
Chloromethane	< 1	1.	ug/l	94	90	63-120	5	30
Dibromochloromethane	< 1	1.	ug/l	97	95	72-120	2	30
1,2-Dichlorobenzene	< 5	5.	ug/l	98	96	80-120	1	30
1,3-Dichlorobenzene	< 5	5.	ug/l	95	95	80-120	0	30
1,4-Dichlorobenzene	< 5	5.	ug/l	97	96	80-120	1	30
1,1-Dichloroethane	< 1	1.	ug/l	94	92	80-120	3	30
1,2-Dichloroethane	< 1	1.	ug/l	102	100	65-135	2	30
1,1-Dichloroethene	< 1	1.	ug/l	84	83	76-124	2	30
cis-1,2-Dichloroethene	< 1	1.	ug/l	100	96	80-120	5	30
trans-1,2-Dichloroethene	< 1	1.	ug/l	99	98	80-120	1	30
1,2-Dichloropropane	< 1	1.	ug/l	94	92	80-120	2	30
cis-1,3-Dichloropropene	< 1	1.	ug/l	93	92	80-120	1	30
trans-1,3-Dichloropropene	< 1	1.	ug/l	95	92	76-120	3	30
Ethyl t-butyl ether	< 1	1.	ug/l	94	90	74-120	4	30
Ethylbenzene	< 1	1.	ug/l	97	94	79-120	2	30
di-Isopropyl ether	< 1	1.	ug/l	91	88	65-120	3	30
Isopropylbenzene	< 5	5.	ug/l	96	95	77-120	1	30
p-Isopropyltoluene	< 5	5.	ug/l	101	99	80-120	2	30
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	93	92	75-120	1	30
Methylene Chloride	< 3	3.	ug/l	98	93	80-120	5	30
Naphthalene	< 5	5.	ug/l	83	84	47-126	1	30
n-Propylbenzene	< 5	5.	ug/l	95	96	80-120	1	30
1,1,2,2-Tetrachloroethane	< 1	1.	ug/l	90	90	70-120	0	30
Tetrachloroethene	< 1	1.	ug/l	101	99	80-120	2	30
Toluene	< 1	1.	ug/l	100	99	80-120	1	30
1,1,1-Trichloroethane	< 1	1.	ug/l	94	93	66-126	2	30
1,1,2-Trichloroethane	< 1	1.	ug/l	97	96	80-120	1	30
Trichloroethene	< 1	1.	ug/l	102	99	80-120	3	30
Trichlorofluoromethane	< 1	1.	ug/l	108	101	65-130	7	30
1,2,4-Trimethylbenzene	< 5	5.	ug/l	98	96	74-120	2	30
1,3,5-Trimethylbenzene	< 5	5.	ug/l	96	95	74-120	1	30
Vinyl Chloride	< 1	1.	ug/l	95	91	63-120	5	30
Xylene (Total)	< 1	1.	ug/l	98	95	80-120	3	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: 06/19/14 at 10:10 AM

Group Number: 1481483

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: W141671AA	Sample number(s): 7497170-7497173 UNSPK: P498887								
Acetone	72	68	35-144	7	30				
Acrolein	90	88	39-136	2	30				
Acrylonitrile	75	69	51-125	9	30				
t-Amyl methyl ether	93	88	65-117	6	30				
Benzene	105	100	72-134	5	30				
Bromodichloromethane	95	91	73-125	4	30				
Bromoform	80	78	48-118	2	30				
Bromomethane	93	106	47-129	13	30				
2-Butanone	73	69	44-135	5	30				
t-Butyl alcohol	97	92	67-119	5	30				
n-Butylbenzene	106	107	74-134	1	30				
sec-Butylbenzene	109	105	74-137	3	30				
Carbon Tetrachloride	113	110	75-148	3	30				
Chlorobenzene	105	98	87-124	8	30				
Chloroethane	90	105	55-130	16	30				
2-Chloroethyl Vinyl Ether	0*	0*	10-151	0	30				
Chloroform	104	98	81-134	6	30				
Chloromethane	90	106	61-125	16	30				
Dibromochloromethane	95	89	74-116	7	30				
1,2-Dichlorobenzene	97	93	84-119	5	30				
1,3-Dichlorobenzene	96	93	86-121	3	30				
1,4-Dichlorobenzene	97	93	85-121	4	30				
1,1-Dichloroethane	103	97	84-129	6	30				
1,2-Dichloroethane	105	99	63-142	6	30				
1,1-Dichloroethene	110	106	79-137	4	30				
cis-1,2-Dichloroethene	107	100	80-141	7	30				
trans-1,2-Dichloroethene	109	105	86-131	4	30				
1,2-Dichloropropane	96	89	83-124	8	30				
cis-1,3-Dichloropropene	94	88	70-116	7	30				
trans-1,3-Dichloropropene	95	87	74-119	9	30				
Ethyl t-butyl ether	91	87	74-122	4	30				
Ethylbenzene	101	96	71-134	5	30				
di-Isopropyl ether	91	87	70-129	5	30				
Isopropylbenzene	102	96	75-128	6	30				
p-Isopropyltoluene	103	102	76-123	0	30				
Methyl Tertiary Butyl Ether	96	91	72-126	5	30				
Methylene Chloride	102	99	78-133	3	30				
Naphthalene	83	80	52-125	4	30				
n-Propylbenzene	99	98	74-134	1	30				
1,1,2,2-Tetrachloroethane	86	84	72-128	3	30				
Tetrachloroethene	106	101	80-128	5	30				
Toluene	106	101	80-125	6	30				
1,1,1-Trichloroethane	114	107	69-140	7	30				
1,1,2-Trichloroethane	98	88	71-141	11	30				
Trichloroethene	110	107	88-133	2	30				
Trichlorofluoromethane	109	134	63-163	21	30				
1,2,4-Trimethylbenzene	98	96	72-130	3	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: 1481483
Reported: 06/19/14 at 10:10 AM

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	98	97	65-132	1	30				
Vinyl Chloride	93	109	66-133	16	30				
Xylene (Total)	101	96	79-125	6	30				
Batch number: W141681AA	Sample number(s): 7497176-7497178 UNSPK: P497489								
Acetone	68	66	35-144	3	30				
Acrolein	102	105	39-136	3	30				
Acrylonitrile	71	71	51-125	1	30				
t-Amyl methyl ether	97	97	65-117	0	30				
Benzene	106	108	72-134	1	30				
Bromodichloromethane	102	100	73-125	1	30				
Bromoform	83	79	48-118	5	30				
Bromomethane	109	111	47-129	2	30				
2-Butanone	68	70	44-135	3	30				
t-Butyl alcohol	97	95	67-119	2	30				
n-Butylbenzene	107	106	74-134	1	30				
sec-Butylbenzene	115	116	74-137	0	30				
Carbon Tetrachloride	123	121	75-148	1	30				
Chlorobenzene	104	106	87-124	2	30				
Chloroethane	103	106	55-130	3	30				
2-Chloroethyl Vinyl Ether	0*	0*	10-151	0	30				
Chloroform	110	110	81-134	0	30				
Chloromethane	110	108	61-125	2	30				
Dibromochloromethane	98	97	74-116	1	30				
1,2-Dichlorobenzene	102	102	84-119	0	30				
1,3-Dichlorobenzene	100	99	86-121	0	30				
1,4-Dichlorobenzene	102	99	85-121	2	30				
1,1-Dichloroethane	105	103	84-129	1	30				
1,2-Dichloroethane	112	110	63-142	2	30				
1,1-Dichloroethene	109	108	79-137	1	30				
cis-1,2-Dichloroethene	107	105	80-141	2	30				
trans-1,2-Dichloroethene	112	111	86-131	2	30				
1,2-Dichloropropane	102	100	83-124	2	30				
cis-1,3-Dichloropropene	97	98	70-116	1	30				
trans-1,3-Dichloropropene	95	96	74-119	1	30				
Ethyl t-butyl ether	96	93	74-122	3	30				
Ethylbenzene	103	86	71-134	7	30				
di-Isopropyl ether	94	94	70-129	0	30				
Isopropylbenzene	104	99	75-128	4	30				
p-Isopropyltoluene	116	115	76-123	1	30				
Methyl Tertiary Butyl Ether	97	98	72-126	1	30				
Methylene Chloride	106	104	78-133	2	30				
Naphthalene	93	89	52-125	3	30				
n-Propylbenzene	105	92	74-134	8	30				
1,1,2,2-Tetrachloroethane	90	91	72-128	1	30				
Tetrachloroethene	112	107	80-128	4	30				
Toluene	107	105	80-125	2	30				
1,1,1-Trichloroethane	113	111	69-140	1	30				
1,1,2-Trichloroethane	103	104	71-141	1	30				
Trichloroethene	113	115	88-133	2	30				
Trichlorofluoromethane	138	137	63-163	0	30				
1,2,4-Trimethylbenzene	106	110	72-130	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: 1481483
Reported: 06/19/14 at 10:10 AM

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	105	65-132	1	30				
Vinyl Chloride	108	111	66-133	3	30				
Xylene (Total)	104	105	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: W141671AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7497170	101	99	98	99
7497171	100	101	99	98
7497172	101	99	97	94
7497173	101	99	98	98
Blank	97	98	98	98
LCS	100	96	101	98
MS	101	97	102	100
MSD	100	104	100	99
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 8260 VOCs
Batch number: W141681AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7497176	101	101	98	98
7497177	102	103	99	97
7497178	100	101	98	97
Blank	99	97	97	97
LCS	101	109	100	101
MS	103	100	100	100
MSD	104	100	98	99
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 8260 VOCs
Batch number: W141691AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7497174	100	99	99	99
7497175	99	99	98	98
Blank	100	102	99	96
LCS	102	95	100	100
LCSD	98	99	100	100
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.

Quality Control Summary

Client Name: Kleinfelder
Reported: 06/19/14 at 10:10 AM

Group Number: 1481483

Surrogate Quality Control

*- 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 #: 1481483 Sample #: 7497170-78

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	Soil	Potable	NPDES	Water	Other	Total # of Containers	Full list VOCs (8260)									Remarks	Temperature of samples upon receipt (if requested)
											HCl										
MW-17D (75)	6/11/14	1320	✓					✓		3	X										
MW-17D (81)	6/11/14	1200	✓					✓		3	X										
MW-17D (87.75)	6/11/14	0950	✓					✓		3	X										
MW-17D (92)	6/10/14	1810	✓					✓		3	X									Cooler	
MW-17D (117)	6/10/14	1640	✓					✓		3	X										
MW-17D (129.75)	6/10/14	1500	✓					✓		3	X										
MW-17D (147)	6/11/14	0810	✓					✓		3	X										
EB-1	6/10/14	1250	✓					✓		3	X										
EB-2	6/10/14	1540	✓					✓		3	X										

Turnaround Time Requested (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed: 6/19/14 (5 Day)
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
[illegible]	6/11/14	1515	cooler room	6/11/14	1515
cooler room	6/12/14	1100	[illegible]	6/12/14	1100
[illegible]	6/12/14	14:55	[illegible]		
			[illegible]	6/12/14	1455

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

Explanation of Symbols and Abbreviations

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

RL	[illegible]	**BMQL**	[illegible]
N.D.	[illegible]	**MPN**	[illegible]
TNTC	[illegible]	**CP Units**	[illegible]
IU	[illegible]	**NTU**	[illegible]
umhos/cm	[illegible]	**ng**	[illegible]
C	[illegible]	**F**	[illegible]
meq	[illegible]	**lb.**	[illegible]
g	[illegible]	**kg**	[illegible]
µg	[illegible]	**mg**	[illegible]
mL	[illegible]	**L**	[illegible]
m3	[illegible]	**µL**	[illegible]
		pg/L	[illegible]

< [illegible] of [illegible]

> [illegible]

ppm [illegible]

ppb [illegible]

Dry weight basis [illegible]

Data Qualifiers:

C – [illegible]

J - [illegible]

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	[illegible]	**B**	[illegible]
B	[illegible]	**E**	[illegible]
C	[illegible]	**M**	[illegible]
D	[illegible]	**N**	[illegible]
E	[illegible]	**S**	[illegible]
N	[illegible]	**U**	[illegible]
P	[illegible]	**W**	[illegible]
U	[illegible]	*****	[illegible]
X,Y,Z	[illegible]	**+**	[illegible]

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

[illegible]

[illegible]

[illegible]

WARRANTY AND LIMITS OF LIABILITY [illegible]

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Kleinfelder
1 Speen Street
Framingham MA 01701

May 28, 2014

Project: Fairfax 26140

Submittal Date: 05/20/2014
Group Number: 1475715
PO Number: 51141-295589
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
MW-23D Grab Water	7470781

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-23D Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7470781
LL Group # 1475715
Account # 12152

Project Name: Fairfax 26140

Collected: 05/19/2014 10:20 by PW

Kleinfelder
1 Speen Street
Framingham MA 01701

Submitted: 05/20/2014 17:50
Reported: 05/28/2014 10:25

23D--

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	**120**	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	**1,800**	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	**89**	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	**260**	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	**8,000**	50	50
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	**19**	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: MW-23D Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7470781
LL Group # 1475715
Account # 12152

Project Name: Fairfax 26140

Collected: 05/19/2014 10:20 by PW

Submitted: 05/20/2014 17:50
Reported: 05/28/2014 10:25

Kleinfelder
1 Speen Street
Framingham MA 01701

23D--

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

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	N141421AA	05/22/2014 21:57	Linda C Pape	50
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	N141431AA	05/24/2014 01:40	Andrea E Lando	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N141421AA	05/22/2014 21:57	Linda C Pape	50
01163	GC/MS VOA Water Prep	SW-846 5030B	2	N141431AA	05/24/2014 01:40	Andrea E Lando	10

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Analysis Report

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Quality Control Summary

Client Name: Kleinfelder Group Number: 1475715
Reported: 05/28/14 at 10:25 AM

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: N141421AA	Sample number(s): 7470781							
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	96		75-120		
Batch number: N141431AA	Sample number(s): 7470781							
Acetone	< 20	20.	ug/l	128		43-149		
Acrolein	< 100	100.	ug/l	88		52-129		
Acrylonitrile	< 20	20.	ug/l	121*		62-120		
t-Amyl methyl ether	< 1	1.	ug/l	98		75-120		
Benzene	< 1	1.	ug/l	104		78-120		
Bromodichloromethane	< 1	1.	ug/l	100		73-120		
Bromoform	< 4	4.	ug/l	94		61-120		
Bromomethane	< 1	1.	ug/l	110		58-120		
2-Butanone	< 10	10.	ug/l	128		54-133		
t-Butyl alcohol	< 20	20.	ug/l	105		75-120		
n-Butylbenzene	< 5	5.	ug/l	107		68-120		
sec-Butylbenzene	< 5	5.	ug/l	109		80-120		
Carbon Tetrachloride	< 1	1.	ug/l	105		74-130		
Chlorobenzene	< 1	1.	ug/l	102		80-120		
Chloroethane	< 1	1.	ug/l	107		56-120		
2-Chloroethyl Vinyl Ether	< 10	10.	ug/l	99		54-126		
Chloroform	< 1	1.	ug/l	104		80-122		
Chloromethane	< 1	1.	ug/l	111		63-120		
Dibromochloromethane	< 1	1.	ug/l	100		72-120		
1,2-Dichlorobenzene	< 5	5.	ug/l	101		80-120		
1,3-Dichlorobenzene	< 5	5.	ug/l	99		80-120		
1,4-Dichlorobenzene	< 5	5.	ug/l	100		80-120		
1,1-Dichloroethane	< 1	1.	ug/l	103		80-120		
1,2-Dichloroethane	< 1	1.	ug/l	108		65-135		
1,1-Dichloroethene	< 1	1.	ug/l	102		76-124		
cis-1,2-Dichloroethene	< 1	1.	ug/l	102		80-120		
trans-1,2-Dichloroethene	< 1	1.	ug/l	104		80-120		
1,2-Dichloropropane	< 1	1.	ug/l	105		80-120		
cis-1,3-Dichloropropene	< 1	1.	ug/l	100		80-120		
trans-1,3-Dichloropropene	< 1	1.	ug/l	103		76-120		
Ethyl t-butyl ether	< 1	1.	ug/l	97		74-120		
Ethylbenzene	< 1	1.	ug/l	103		79-120		
di-Isopropyl ether	< 1	1.	ug/l	105		65-120		
Isopropylbenzene	< 5	5.	ug/l	105		77-120		
p-Isopropyltoluene	< 5	5.	ug/l	104		80-120		
Methylene Chloride	< 3	3.	ug/l	105		80-120		
Naphthalene	< 5	5.	ug/l	108		47-126		
n-Propylbenzene	< 5	5.	ug/l	109		80-120		
1,1,2,2-Tetrachloroethane	< 1	1.	ug/l	110		70-120		
Tetrachloroethene	< 1	1.	ug/l	103		80-120		

*- 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: 1475715
Reported: 05/28/14 at 10:25 AM

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Toluene	< 1	1.	ug/l	100		80-120		
1,1,1-Trichloroethane	< 1	1.	ug/l	94		66-126		
1,1,2-Trichloroethane	< 1	1.	ug/l	103		80-120		
Trichloroethene	< 1	1.	ug/l	104		80-120		
Trichlorofluoromethane	< 1	1.	ug/l	116		65-130		
1,2,4-Trimethylbenzene	< 5	5.	ug/l	105		74-120		
1,3,5-Trimethylbenzene	< 5	5.	ug/l	106		74-120		
Vinyl Chloride	< 1	1.	ug/l	114		63-120		
Xylene (Total)	< 1	1.	ug/l	102		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: N141421AA	Sample number(s): 7470781 UNSPK: P468792								
Methyl Tertiary Butyl Ether	94	97	72-126	3	30				
Batch number: N141431AA	Sample number(s): 7470781 UNSPK: P468233								
Acetone	123	120	35-144	2	30				
Acrolein	82	83	39-136	2	30				
Acrylonitrile	124	121	51-125	3	30				
t-Amyl methyl ether	100	100	65-117	0	30				
Benzene	109	108	72-134	1	30				
Bromodichloromethane	109	108	73-125	1	30				
Bromoform	94	92	48-118	2	30				
Bromomethane	119	117	47-129	1	30				
2-Butanone	128	125	44-135	2	30				
t-Butyl alcohol	103	105	67-119	1	30				
n-Butylbenzene	115	116	74-134	1	30				
sec-Butylbenzene	117	118	74-137	1	30				
Carbon Tetrachloride	114	112	75-148	2	30				
Chlorobenzene	106	105	87-124	0	30				
Chloroethane	115	113	55-130	2	30				
2-Chloroethyl Vinyl Ether	0*	0*	10-151	0	30				
Chloroform	113	111	81-134	2	30				
Chloromethane	119	118	61-125	0	30				
Dibromochloromethane	105	102	74-116	3	30				
1,2-Dichlorobenzene	105	104	84-119	0	30				
1,3-Dichlorobenzene	104	104	86-121	0	30				
1,4-Dichlorobenzene	104	105	85-121	1	30				
1,1-Dichloroethane	108	106	84-129	2	30				
1,2-Dichloroethane	111	109	63-142	1	30				
1,1-Dichloroethene	110	108	79-137	1	30				
cis-1,2-Dichloroethene	107	105	80-141	2	30				
trans-1,2-Dichloroethene	110	109	86-131	1	30				
1,2-Dichloropropane	111	109	83-124	2	30				
cis-1,3-Dichloropropene	104	104	70-116	0	30				
trans-1,3-Dichloropropene	105	104	74-119	1	30				
Ethyl t-butyl ether	99	99	74-122	0	30				
Ethylbenzene	110	109	71-134	0	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: 1475715
Reported: 05/28/14 at 10:25 AM

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
di-Isopropyl ether	105	105	70-129	0	30				
Isopropylbenzene	114	113	75-128	1	30				
p-Isopropyltoluene	111	111	76-123	0	30				
Methylene Chloride	111	108	78-133	3	30				
Naphthalene	106	109	52-125	3	30				
n-Propylbenzene	119	119	74-134	0	30				
1,1,2,2-Tetrachloroethane	112	112	72-128	0	30				
Tetrachloroethene	107	108	80-128	0	30				
Toluene	105	104	80-125	1	30				
1,1,1-Trichloroethane	100	99	69-140	1	30				
1,1,2-Trichloroethane	125	123	71-141	2	30				
Trichloroethene	112	111	88-133	1	30				
Trichlorofluoromethane	128	127	63-163	1	30				
1,2,4-Trimethylbenzene	113	113	72-130	0	30				
1,3,5-Trimethylbenzene	112	113	65-132	1	30				
Vinyl Chloride	122	123	66-133	1	30				
Xylene (Total)	106	106	79-125	0	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: N141431AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7470781	102	101	97	91
Blank	103	103	98	95
LCS	101	101	101	102
MS	101	101	100	100
MSD	100	100	99	101
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 #: 1475715 Sample #: 7470781

Client: Fairfax Petroleum
Acct. #:
Project Name/#: 26140
PWSID #:
Project Manager: Mark C. Steele
P.O. #: 51141-295589
Sampler: Preston Wentz
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 + Oxygenates - 8260									Remarks	Temperature of samples upon receipt (if requested)
MW-23D	5/19/14	1020	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
[signature]	5/19/14	1600	Bottle Storage	5/19/14	1600
Bottle Storage	5/20/14	11:00	[signature]	5/20/14	11:00
[signature]	5/20/14	17:50			
			[signature]	5/20/14	1750

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	[illegible]	**BMQL**	[illegible]
N.D.	[illegible]	**MPN**	[illegible]
TNTC	[illegible]	**CP Units**	[illegible]
IU	[illegible]	**NTU**	[illegible]
umhos/cm	[illegible]	**ng**	[illegible]
C	[illegible]	**F**	[illegible]
meq	[illegible]	**lb.**	[illegible]
g	[illegible]	**kg**	[illegible]
µg	[illegible]	**mg**	[illegible]
mL	[illegible]	**L**	[illegible]
m3	[illegible]	**µL**	[illegible]
		pg/L	[illegible]

< [illegible] of [illegible]

> [illegible]

ppm [illegible]

ppb [illegible]

Dry weight basis [illegible]

Data Qualifiers:

C – [illegible]

J - [illegible]

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	[illegible]	**B**	[illegible]
B	[illegible]	**E**	[illegible]
C	[illegible]	**M**	[illegible]
D	[illegible]	**N**	[illegible]
E	[illegible]	**S**	[illegible]
N	[illegible]	**U**	[illegible]
P	[illegible]	**W**	[illegible]
U	[illegible]	*****	[illegible]
X,Y,Z	[illegible]	**+**	[illegible]

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

[illegible]

[illegible]

WARRANTY AND LIMITS OF LIABILITY [illegible]

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Kleinfelder
1 Speen Street
Framingham MA 01701

June 17, 2014

Project: Fairfax 26140

Submittal Date: 06/11/2014
Group Number: 1481105
PO Number: 51141-294573
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
MW-23D Grab Water	7495399

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
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ELECTRONIC COPY TO	Kleinfelder	Attn: Charlie Low
ELECTRONIC COPY TO	Kleinfelder	Attn: Paxton Wertz
ELECTRONIC COPY TO	Kleinfelder	Attn: Nathan Stevens

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: MW-23D Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7495399
LL Group # 1481105
Account # 12152

Project Name: Fairfax 26140

Collected: 06/10/2014 14:20 by TB

Kleinfelder
1 Speen Street
Framingham MA 01701

Submitted: 06/11/2014 16:45
Reported: 06/17/2014 14:34

23DMW

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	< 400	400	20
10335	Acrolein	107-02-8	< 2,000	2,000	20
10335	Acrylonitrile	107-13-1	< 400	400	20
10335	**t-Amyl methyl ether**	994-05-8	**180**	20	20
10335	Benzene	71-43-2	< 20	20	20
10335	Bromodichloromethane	75-27-4	< 20	20	20
10335	Bromoform	75-25-2	< 80	80	20
10335	Bromomethane	74-83-9	< 20	20	20
10335	2-Butanone	78-93-3	< 200	200	20
10335	**t-Butyl alcohol**	75-65-0	**2,200**	400	20
10335	n-Butylbenzene	104-51-8	< 100	100	20
10335	sec-Butylbenzene	135-98-8	< 100	100	20
10335	Carbon Tetrachloride	56-23-5	< 20	20	20
10335	Chlorobenzene	108-90-7	< 20	20	20
10335	Chloroethane	75-00-3	< 20	20	20
10335	2-Chloroethyl Vinyl Ether	110-75-8	< 200	200	20
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	< 20	20	20
10335	Chloromethane	74-87-3	< 20	20	20
10335	Dibromochloromethane	124-48-1	< 20	20	20
10335	1,2-Dichlorobenzene	95-50-1	< 100	100	20
10335	1,3-Dichlorobenzene	541-73-1	< 100	100	20
10335	1,4-Dichlorobenzene	106-46-7	< 100	100	20
10335	1,1-Dichloroethane	75-34-3	< 20	20	20
10335	1,2-Dichloroethane	107-06-2	< 20	20	20
10335	1,1-Dichloroethene	75-35-4	< 20	20	20
10335	**cis-1,2-Dichloroethene**	156-59-2	**120**	20	20
10335	trans-1,2-Dichloroethene	156-60-5	< 20	20	20
10335	1,2-Dichloropropane	78-87-5	< 20	20	20
10335	cis-1,3-Dichloropropene	10061-01-5	< 20	20	20
10335	trans-1,3-Dichloropropene	10061-02-6	< 20	20	20
10335	Ethyl t-butyl ether	637-92-3	< 20	20	20
10335	Ethylbenzene	100-41-4	< 20	20	20
10335	**di-Isopropyl ether**	108-20-3	**340**	20	20
10335	Isopropylbenzene	98-82-8	< 100	100	20
10335	p-Isopropyltoluene	99-87-6	< 100	100	20
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**11,000**	200	200
10335	Methylene Chloride	75-09-2	< 60	60	20
10335	Naphthalene	91-20-3	< 100	100	20
10335	n-Propylbenzene	103-65-1	< 100	100	20
10335	1,1,2,2-Tetrachloroethane	79-34-5	< 20	20	20
10335	Tetrachloroethene	127-18-4	< 20	20	20
10335	Toluene	108-88-3	< 20	20	20
10335	1,1,1-Trichloroethane	71-55-6	< 20	20	20
10335	1,1,2-Trichloroethane	79-00-5	< 20	20	20
10335	Trichloroethene	79-01-6	< 20	20	20
10335	Trichlorofluoromethane	75-69-4	< 20	20	20
10335	1,2,4-Trimethylbenzene	95-63-6	< 100	100	20

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Analysis Report

Sample Description: MW-23D Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7495399
LL Group # 1481105
Account # 12152

Project Name: Fairfax 26140

Collected: 06/10/2014 14:20 by TB

Submitted: 06/11/2014 16:45
Reported: 06/17/2014 14:34

Kleinfelder
1 Speen Street
Framingham MA 01701

23DMW

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	< 100	100	20
10335	Vinyl Chloride	75-01-4	< 20	20	20
10335	Xylene (Total)	1330-20-7	< 20	20	20

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	T141641AA	06/13/2014 16:24	Linda C Pape	20
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	T141641AA	06/13/2014 16:48	Linda C Pape	200
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T141641AA	06/13/2014 16:24	Linda C Pape	20
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T141641AA	06/13/2014 16:48	Linda C Pape	200

Quality Control Summary

Client Name: Kleinfelder Group Number: 1481105
Reported: 06/17/14 at 02:34 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: T141641AA	Sample number(s): 7495399							
Acetone	< 20	20.	ug/l	96		43-149		
Acrolein	< 100	100.	ug/l	93		52-129		
Acrylonitrile	< 20	20.	ug/l	106		62-120		
t-Amyl methyl ether	< 1	1.	ug/l	99		75-120		
Benzene	< 1	1.	ug/l	104		78-120		
Bromodichloromethane	< 1	1.	ug/l	91		73-120		
Bromoform	< 4	4.	ug/l	95		61-120		
Bromomethane	< 1	1.	ug/l	105		58-120		
2-Butanone	< 10	10.	ug/l	103		54-133		
t-Butyl alcohol	< 20	20.	ug/l	107		75-120		
n-Butylbenzene	< 5	5.	ug/l	100		68-120		
sec-Butylbenzene	< 5	5.	ug/l	109		80-120		
Carbon Tetrachloride	< 1	1.	ug/l	93		74-130		
Chlorobenzene	< 1	1.	ug/l	102		80-120		
Chloroethane	< 1	1.	ug/l	103		56-120		
2-Chloroethyl Vinyl Ether	< 10	10.	ug/l	100		54-126		
Chloroform	< 1	1.	ug/l	98		80-122		
Chloromethane	< 1	1.	ug/l	98		63-120		
Dibromochloromethane	< 1	1.	ug/l	98		72-120		
1,2-Dichlorobenzene	< 5	5.	ug/l	103		80-120		
1,3-Dichlorobenzene	< 5	5.	ug/l	103		80-120		
1,4-Dichlorobenzene	< 5	5.	ug/l	101		80-120		
1,1-Dichloroethane	< 1	1.	ug/l	100		80-120		
1,2-Dichloroethane	< 1	1.	ug/l	97		65-135		
1,1-Dichloroethene	< 1	1.	ug/l	99		76-124		
cis-1,2-Dichloroethene	< 1	1.	ug/l	105		80-120		
trans-1,2-Dichloroethene	< 1	1.	ug/l	104		80-120		
1,2-Dichloropropane	< 1	1.	ug/l	104		80-120		
cis-1,3-Dichloropropene	< 1	1.	ug/l	99		80-120		
trans-1,3-Dichloropropene	< 1	1.	ug/l	99		76-120		
Ethyl t-butyl ether	< 1	1.	ug/l	98		74-120		
Ethylbenzene	< 1	1.	ug/l	102		79-120		
di-Isopropyl ether	< 1	1.	ug/l	103		65-120		
Isopropylbenzene	< 5	5.	ug/l	107		77-120		
p-Isopropyltoluene	< 5	5.	ug/l	103		80-120		
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	98		75-120		
Methylene Chloride	< 3	3.	ug/l	107		80-120		
Naphthalene	< 5	5.	ug/l	103		47-126		
n-Propylbenzene	< 5	5.	ug/l	104		80-120		
1,1,2,2-Tetrachloroethane	< 1	1.	ug/l	99		70-120		
Tetrachloroethene	< 1	1.	ug/l	104		80-120		
Toluene	< 1	1.	ug/l	97		80-120		
1,1,1-Trichloroethane	< 1	1.	ug/l	97		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: 1481105
Reported: 06/17/14 at 02:34 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	103		80-120		
Trichloroethene	< 1	1.	ug/l	101		80-120		
Trichlorofluoromethane	< 1	1.	ug/l	91		65-130		
1,2,4-Trimethylbenzene	< 5	5.	ug/l	101		74-120		
1,3,5-Trimethylbenzene	< 5	5.	ug/l	102		74-120		
Vinyl Chloride	< 1	1.	ug/l	97		63-120		
Xylene (Total)	< 1	1.	ug/l	103		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: T141641AA	Sample number(s): 7495399 UNSPK: P496995								
Acetone	89	88	35-144	1	30				
Acrolein	81	79	39-136	2	30				
Acrylonitrile	100	98	51-125	1	30				
t-Amyl methyl ether	99	99	65-117	0	30				
Benzene	110	112	72-134	3	30				
Bromodichloromethane	95	98	73-125	3	30				
Bromoform	93	93	48-118	0	30				
Bromomethane	107	108	47-129	1	30				
2-Butanone	105	105	44-135	0	30				
t-Butyl alcohol	99	99	67-119	0	30				
n-Butylbenzene	104	109	74-134	4	30				
sec-Butylbenzene	114	120	74-137	5	30				
Carbon Tetrachloride	106	105	75-148	0	30				
Chlorobenzene	106	110	87-124	4	30				
Chloroethane	109	111	55-130	2	30				
2-Chloroethyl Vinyl Ether	103	101	10-151	1	30				
Chloroform	105	107	81-134	2	30				
Chloromethane	106	106	61-125	0	30				
Dibromochloromethane	95	99	74-116	4	30				
1,2-Dichlorobenzene	104	104	84-119	0	30				
1,3-Dichlorobenzene	103	110	86-121	6	30				
1,4-Dichlorobenzene	102	108	85-121	5	30				
1,1-Dichloroethane	107	107	84-129	0	30				
1,2-Dichloroethane	100	100	63-142	0	30				
1,1-Dichloroethene	108	109	79-137	1	30				
cis-1,2-Dichloroethene	110	111	80-141	1	30				
trans-1,2-Dichloroethene	114	115	86-131	0	30				
1,2-Dichloropropane	109	113	83-124	3	30				
cis-1,3-Dichloropropene	103	103	70-116	0	30				
trans-1,3-Dichloropropene	97	100	74-119	4	30				
Ethyl t-butyl ether	97	98	74-122	1	30				
Ethylbenzene	103	108	71-134	5	30				
di-Isopropyl ether	104	105	70-129	2	30				
Isopropylbenzene	112	114	75-128	2	30				
p-Isopropyltoluene	106	111	76-123	4	30				
Methyl Tertiary Butyl Ether	95	97	72-126	2	30				
Methylene Chloride	106	110	78-133	3	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: 1481105
Reported: 06/17/14 at 02:34 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	105	52-125	5	30				
n-Propylbenzene	110	115	74-134	4	30				
1,1,2,2-Tetrachloroethane	96	100	72-128	4	30				
Tetrachloroethene	111	111	80-128	1	30				
Toluene	102	104	80-125	2	30				
1,1,1-Trichloroethane	100	101	69-140	1	30				
1,1,2-Trichloroethane	101	104	71-141	3	30				
Trichloroethene	111	110	88-133	1	30				
Trichlorofluoromethane	103	104	63-163	1	30				
1,2,4-Trimethylbenzene	101	107	72-130	5	30				
1,3,5-Trimethylbenzene	104	108	65-132	3	30				
Vinyl Chloride	108	107	66-133	1	30				
Xylene (Total)	105	109	79-125	4	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: T141641AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7495399	100	99	98	97
Blank	101	103	96	91
LCS	100	103	99	98
MS	98	107	98	97
MSD	95	100	98	95
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 #: 1481105 Sample #: 7495399

Client: Fairfax Petroleum
Acct. #:
Project Name/#: 26140 Great Falls, VA
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: Full List VOCs, Including Oxygenates (8260B) H								Remarks	Temperature of samples upon receipt (if requested)
MW-23D	6/10/14	1420	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: 6/16/2014 (3 day)
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 triplecate volume)
Internal COC required? Yes No

Relinquished by:	Date	Time	Received by:	Date	Time
Tim Boswell	6/10/14	1930	Bottle Storage	6/10/14	1930
Bottle storage	6/11/14	1300	[illegible]	6/11/14	1300
[illegible]	6/11/14	1645			
			[illegible]	6/11/14	1645

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

eurofins | Lancaster Laboratories Environmental

Explanation of Symbols and Abbreviations

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

RL	[illegible]	**BMQL**	[illegible]
N.D.	[illegible]	**MPN**	[illegible]
TNTC	[illegible]	**CP Units**	[illegible]
IU	[illegible]	**NTU**	[illegible]
umhos/cm	[illegible]	**ng**	[illegible]
C	[illegible]	**F**	[illegible]
meq	[illegible]	**lb.**	[illegible]
g	[illegible]	**kg**	[illegible]
µg	[illegible]	**mg**	[illegible]
mL	[illegible]	**L**	[illegible]
m3	[illegible]	**µL**	[illegible]
		pg/L	[illegible]

< [illegible] of [illegible]

> [illegible]

ppm [illegible]

ppb [illegible]

Dry weight basis [illegible]

Data Qualifiers:

C – [illegible]

J - [illegible] of [illegible]

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	[illegible]	**B**	[illegible]
B	[illegible]	**E**	[illegible]
C	[illegible]	**M**	[illegible]
D	[illegible]	**N**	[illegible]
E	[illegible]	**S**	[illegible]
N	[illegible]	**U**	[illegible]
P	[illegible]	**W**	[illegible]
U	[illegible]	*****	[illegible]
X,Y,Z	[illegible]	**+**	[illegible]

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

[illegible]

[illegible]

WARRANTY AND LIMITS OF LIABILITY [illegible]

REVISED

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Kleinfelder
1 Speen Street
Framingham MA 01701

July 02, 2014

Project: Fairfax 26140

Submittal Date: 06/19/2014
Group Number: 1483260
PO Number: 51141-294573
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
MW-22 Grab Water	7505602
W-7 Grab Water	7505603
W-6 Grab Water	7505604
MW-12D(110) Grab Water	7505605
MW-12D(153) Grab Water	7505606
MW-18D(100) Grab Water	7505607
MW-6D(65) Grab Water	7505608
MW-6D(85) Grab Water	7505609
MW-6D(105) Grab Water	7505610
MW-10 Grab Water	7505611
MW-24 Grab Water	7505612
MW-21S Grab Water	7505613
MW-21I Grab Water	7505614

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: Paxton Wertz
ELECTRONIC COPY TO	Kleinfelder	Attn: Nathan Stevens

REVISED

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

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Analysis Report

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Sample Description: MW-22 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7505602
LL Group # 1483260
Account # 12152

Project Name: Fairfax 26140

Collected: 06/18/2014 08:35 by TB

Submitted: 06/19/2014 19:27
Reported: 07/02/2014 16:27

Kleinfelder
1 Speen Street
Framingham MA 01701

F2601

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	T141712AA	06/21/2014 01:48	Amanda K Richards	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T141712AA	06/21/2014 01:48	Amanda K Richards	1

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Analysis Report

REVISED

Sample Description: W-7 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7505603
LL Group # 1483260
Account # 12152

Project Name: Fairfax 26140

Collected: 06/18/2014 09:25 by TB

Submitted: 06/19/2014 19:27
Reported: 07/02/2014 16:27

Kleinfelder
1 Speen Street
Framingham MA 01701

F2602

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	T141712AA	06/21/2014 02:12	Amanda K Richards	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T141712AA	06/21/2014 02:12	Amanda K Richards	1

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Analysis Report

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Sample Description: W-6 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7505604
LL Group # 1483260
Account # 12152

Project Name: Fairfax 26140

Collected: 06/18/2014 10:00 by TB

Submitted: 06/19/2014 19:27
Reported: 07/02/2014 16:27

Kleinfelder
1 Speen Street
Framingham MA 01701

F2603

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	T141712AA	06/21/2014 02:36	Amanda K Richards	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T141712AA	06/21/2014 02:36	Amanda K Richards	1

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Analysis Report

REVISED

Sample Description: MW-12D(110) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7505605
LL Group # 1483260
Account # 12152

Project Name: Fairfax 26140

Collected: 06/18/2014 10:50 by TB

Submitted: 06/19/2014 19:27
Reported: 07/02/2014 16:27

Kleinfelder
1 Speen Street
Framingham MA 01701

F2604

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	< 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	< 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	< 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
10335	Vinyl Chloride	75-01-4	< 1	1	1

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Analysis Report

REVISED

Sample Description: MW-12D(110) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7505605
LL Group # 1483260
Account # 12152

Project Name: Fairfax 26140

Collected: 06/18/2014 10:50 by TB

Submitted: 06/19/2014 19:27
Reported: 07/02/2014 16:27

Kleinfelder
1 Speen Street
Framingham MA 01701

F2604

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	N141731AA	06/22/2014 15:22	Amanda K Richards	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N141731AA	06/22/2014 15:22	Amanda K Richards	1

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Analysis Report

REVISED

Sample Description: MW-12D(153) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7505606
LL Group # 1483260
Account # 12152

Project Name: Fairfax 26140

Collected: 06/18/2014 11:20 by TB

Submitted: 06/19/2014 19:27
Reported: 07/02/2014 16:27

Kleinfelder
1 Speen Street
Framingham MA 01701

F2605

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	< 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	< 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	< 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
10335	Vinyl Chloride	75-01-4	< 1	1	1

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Analysis Report

REVISED

Sample Description: MW-12D(153) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7505606
LL Group # 1483260
Account # 12152

Project Name: Fairfax 26140

Collected: 06/18/2014 11:20 by TB

Submitted: 06/19/2014 19:27
Reported: 07/02/2014 16:27

Kleinfelder
1 Speen Street
Framingham MA 01701

F2605

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	N141731AA	06/22/2014 15:46	Amanda K Richards	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N141731AA	06/22/2014 15:46	Amanda K Richards	1

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Analysis Report

REVISED

Sample Description: MW-18D(100) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7505607
LL Group # 1483260
Account # 12152

Project Name: Fairfax 26140

Collected: 06/18/2014 12:00 by TB

Submitted: 06/19/2014 19:27
Reported: 07/02/2014 16:27

Kleinfelder
1 Speen Street
Framingham MA 01701

F2606

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	**3**	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	< 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
10335	Vinyl Chloride	75-01-4	< 1	1	1

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Analysis Report

REVISED

Sample Description: MW-18D(100) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7505607
LL Group # 1483260
Account # 12152

Project Name: Fairfax 26140

Collected: 06/18/2014 12:00 by TB

Submitted: 06/19/2014 19:27
Reported: 07/02/2014 16:27

Kleinfelder
1 Speen Street
Framingham MA 01701

F2606

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	N141731AA	06/22/2014 16:09	Amanda K Richards	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N141731AA	06/22/2014 16:09	Amanda K Richards	1

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Analysis Report

REVISED

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

LL Sample # WW 7505608
LL Group # 1483260
Account # 12152

Project Name: Fairfax 26140

Collected: 06/18/2014 12:40 by TB

Kleinfelder
1 Speen Street
Framingham MA 01701

Submitted: 06/19/2014 19:27
Reported: 07/02/2014 16:27

F2607

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	< 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	< 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	< 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
10335	Vinyl Chloride	75-01-4	< 1	1	1

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Analysis Report

REVISED

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

LL Sample # WW 7505608
LL Group # 1483260
Account # 12152

Project Name: Fairfax 26140

Collected: 06/18/2014 12:40 by TB

Submitted: 06/19/2014 19:27
Reported: 07/02/2014 16:27

Kleinfelder
1 Speen Street
Framingham MA 01701

F2607

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	N141731AA	06/22/2014 16:32	Amanda K Richards	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N141731AA	06/22/2014 16:32	Amanda K Richards	1

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Analysis Report

REVISED

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

LL Sample # WW 7505609
LL Group # 1483260
Account # 12152

Project Name: Fairfax 26140

Collected: 06/18/2014 13:15 by TB

Submitted: 06/19/2014 19:27
Reported: 07/02/2014 16:27

Kleinfelder
1 Speen Street
Framingham MA 01701

F2608

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	< 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	< 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	< 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
10335	Vinyl Chloride	75-01-4	< 1	1	1

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Analysis Report

REVISED

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

LL Sample # WW 7505609
LL Group # 1483260
Account # 12152

Project Name: Fairfax 26140

Collected: 06/18/2014 13:15 by TB

Submitted: 06/19/2014 19:27
Reported: 07/02/2014 16:27

Kleinfelder
1 Speen Street
Framingham MA 01701

F2608

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	N141731AA	06/22/2014 16:56	Amanda K Richards	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N141731AA	06/22/2014 16:56	Amanda K Richards	1

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Analysis Report

REVISED

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

LL Sample # WW 7505610
LL Group # 1483260
Account # 12152

Project Name: Fairfax 26140

Collected: 06/18/2014 13:40 by TB

Submitted: 06/19/2014 19:27
Reported: 07/02/2014 16:27

Kleinfelder
1 Speen Street
Framingham MA 01701

F2609

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	< 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	< 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	< 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
10335	Vinyl Chloride	75-01-4	< 1	1	1

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Analysis Report

REVISED

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

LL Sample # WW 7505610
LL Group # 1483260
Account # 12152

Project Name: Fairfax 26140

Collected: 06/18/2014 13:40 by TB

Submitted: 06/19/2014 19:27
Reported: 07/02/2014 16:27

Kleinfelder
1 Speen Street
Framingham MA 01701

F2609

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	N141731AA	06/22/2014 17:20	Amanda K Richards	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N141731AA	06/22/2014 17:20	Amanda K Richards	1

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Analysis Report

REVISED

Sample Description: MW-10 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7505611
LL Group # 1483260
Account # 12152

Project Name: Fairfax 26140

Collected: 06/18/2014 14:20 by TB

Kleinfelder
1 Speen Street
Framingham MA 01701

Submitted: 06/19/2014 19:27
Reported: 07/02/2014 16:27

F2610

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	**9**	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	< 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
10335	Vinyl Chloride	75-01-4	< 1	1	1

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Analysis Report

REVISED

Sample Description: MW-10 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7505611
LL Group # 1483260
Account # 12152

Project Name: Fairfax 26140

Collected: 06/18/2014 14:20 by TB

Submitted: 06/19/2014 19:27
Reported: 07/02/2014 16:27

Kleinfelder
1 Speen Street
Framingham MA 01701

F2610

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	N141731AA	06/22/2014 17:44	Amanda K Richards	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N141731AA	06/22/2014 17:44	Amanda K Richards	1

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Analysis Report

REVISED

Sample Description: MW-24 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7505612
LL Group # 1483260
Account # 12152

Project Name: Fairfax 26140

Collected: 06/18/2014 14:50 by TB

Submitted: 06/19/2014 19:27
Reported: 07/02/2014 16:27

Kleinfelder
1 Speen Street
Framingham MA 01701

F2611

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	**29**	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	**21**	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	< 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

REVISED

Sample Description: MW-24 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7505612
LL Group # 1483260
Account # 12152

Project Name: Fairfax 26140

Collected: 06/18/2014 14:50 by TB

Submitted: 06/19/2014 19:27
Reported: 07/02/2014 16:27

Kleinfelder
1 Speen Street
Framingham MA 01701

F2611

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	N141731AA	06/22/2014 18:08	Amanda K Richards	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N141731AA	06/22/2014 18:08	Amanda K Richards	1

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Analysis Report

REVISED

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

LL Sample # WW 7505613
LL Group # 1483260
Account # 12152

Project Name: Fairfax 26140

Collected: 06/18/2014 15:35 by TB

Submitted: 06/19/2014 19:27
Reported: 07/02/2014 16:27

Kleinfelder
1 Speen Street
Framingham MA 01701

F2612

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	**53**	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	N141731AA	06/22/2014 18:31	Amanda K Richards	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N141731AA	06/22/2014 18:31	Amanda K Richards	1

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Analysis Report

REVISED

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

LL Sample # WW 7505614
LL Group # 1483260
Account # 12152

Project Name: Fairfax 26140

Collected: 06/18/2014 16:10 by TB

Submitted: 06/19/2014 19:27
Reported: 07/02/2014 16:27

Kleinfelder
1 Speen Street
Framingham MA 01701

F2613

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	**18**	1	1
10335	Benzene	71-43-2	< 1	1	1
10335	**t-Butyl alcohol**	75-65-0	**910**	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	**26**	1	1
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**1,700**	10	10
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	N141731AA	06/22/2014 18:54	Amanda K Richards	1
10335	BTEX + 5 Oxys	SW-846 8260B	1	N141821AA	07/01/2014 15:53	Linda C Pape	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N141731AA	06/22/2014 18:54	Amanda K Richards	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	N141821AA	07/01/2014 15:53	Linda C Pape	10

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Analysis Report

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

Quality Control Summary

Client Name: Kleinfelder Group Number: 1483260
Reported: 07/02/14 at 04:27 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: N141731AA	Sample number(s): 7505605-7505614							
Acetone	< 20	20.	ug/l	83	82	43-149	2	30
Acrolein	< 100	100.	ug/l	86	87	52-129	1	30
Acrylonitrile	< 20	20.	ug/l	95	94	62-120	1	30
t-Amyl methyl ether	< 1	1.	ug/l	89	87	75-120	3	30
Benzene	< 1	1.	ug/l	101	101	78-120	0	30
Bromodichloromethane	< 1	1.	ug/l	99	98	73-120	1	30
Bromoform	< 4	4.	ug/l	92	92	61-120	1	30
Bromomethane	< 1	1.	ug/l	86	85	58-120	1	30
2-Butanone	< 10	10.	ug/l	99	99	54-133	0	30
t-Butyl alcohol	< 20	20.	ug/l	101	101	75-120	0	30
n-Butylbenzene	< 5	5.	ug/l	99	101	68-120	2	30
sec-Butylbenzene	< 5	5.	ug/l	106	108	80-120	1	30
Carbon Tetrachloride	< 1	1.	ug/l	98	98	74-130	0	30
Chlorobenzene	< 1	1.	ug/l	103	102	80-120	1	30
Chloroethane	< 1	1.	ug/l	86	86	56-120	0	30
2-Chloroethyl Vinyl Ether	< 10	10.	ug/l	100	100	54-126	1	30
Chloroform	< 1	1.	ug/l	101	100	80-122	1	30
Chloromethane	< 1	1.	ug/l	91	89	63-120	2	30
Dibromochloromethane	< 1	1.	ug/l	99	97	72-120	1	30
1,2-Dichlorobenzene	< 5	5.	ug/l	98	100	80-120	2	30
1,3-Dichlorobenzene	< 5	5.	ug/l	99	100	80-120	2	30
1,4-Dichlorobenzene	< 5	5.	ug/l	100	100	80-120	0	30
1,1-Dichloroethane	< 1	1.	ug/l	99	98	80-120	1	30
1,2-Dichloroethane	< 1	1.	ug/l	104	103	65-135	1	30
1,1-Dichloroethene	< 1	1.	ug/l	85	83	76-124	2	30
cis-1,2-Dichloroethene	< 1	1.	ug/l	100	100	80-120	1	30
trans-1,2-Dichloroethene	< 1	1.	ug/l	95	96	80-120	0	30
1,2-Dichloropropane	< 1	1.	ug/l	103	103	80-120	0	30
cis-1,3-Dichloropropene	< 1	1.	ug/l	104	103	80-120	1	30
trans-1,3-Dichloropropene	< 1	1.	ug/l	108	107	76-120	1	30
Ethyl t-butyl ether	< 1	1.	ug/l	93	91	74-120	3	30
Ethylbenzene	< 1	1.	ug/l	105	104	79-120	1	30
di-Isopropyl ether	< 1	1.	ug/l	105	104	65-120	1	30
Isopropylbenzene	< 5	5.	ug/l	106	107	77-120	0	30
p-Isopropyltoluene	< 5	5.	ug/l	102	103	80-120	1	30
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	93	91	75-120	3	30
Methylene Chloride	< 3	3.	ug/l	97	95	80-120	1	30
Naphthalene	< 5	5.	ug/l	90	91	47-126	2	30
n-Propylbenzene	< 5	5.	ug/l	110	111	80-120	0	30
1,1,2,2-Tetrachloroethane	< 1	1.	ug/l	100	100	70-120	1	30
Tetrachloroethene	< 1	1.	ug/l	100	99	80-120	1	30
Toluene	< 1	1.	ug/l	104	104	80-120	0	30
1,1,1-Trichloroethane	< 1	1.	ug/l	94	95	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: 1483260
Reported: 07/02/14 at 04:27 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	102	80-120	0	30
Trichloroethene	< 1	1.	ug/l	102	101	80-120	1	30
Trichlorofluoromethane	< 1	1.	ug/l	92	92	65-130	0	30
1,2,4-Trimethylbenzene	< 5	5.	ug/l	107	108	74-120	1	30
1,3,5-Trimethylbenzene	< 5	5.	ug/l	108	107	74-120	1	30
Vinyl Chloride	< 1	1.	ug/l	92	91	63-120	1	30
Xylene (Total)	< 1	1.	ug/l	103	102	80-120	0	30
Batch number: N141821AA	Sample number(s): 7505614							
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	84		75-120		
Batch number: T141712AA	Sample number(s): 7505602-7505604							
t-Amyl methyl ether	< 1	1.	ug/l	89	89	75-120	0	30
Benzene	< 1	1.	ug/l	94	96	78-120	1	30
t-Butyl alcohol	< 20	20.	ug/l	105	107	75-120	1	30
Ethyl t-butyl ether	< 1	1.	ug/l	94	97	74-120	2	30
Ethylbenzene	< 1	1.	ug/l	101	108	79-120	7	30
di-Isopropyl ether	< 1	1.	ug/l	90	92	65-120	2	30
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	90	91	75-120	1	30
Toluene	< 1	1.	ug/l	100	104	80-120	4	30
Xylene (Total)	< 1	1.	ug/l	94	98	80-120	4	30

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: N141821AA	Sample number(s): 7505614 UNSPK: P513183								
Methyl Tertiary Butyl Ether	89	87	72-126	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: N141731AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7505605	100	102	100	95
7505606	99	104	100	93
7505607	99	104	100	94
7505608	101	103	100	94
7505609	100	103	99	94
7505610	101	104	99	93
7505611	101	104	100	93
7505612	101	104	100	93
7505613	102	104	100	92

*- 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: 1483260
Reported: 07/02/14 at 04:27 PM

Surrogate Quality Control

7505614	98	100	100	93
Blank	98	102	100	96
LCS	97	101	103	102
LCSD	97	101	103	101
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 8260 VOCs
Batch number: T141712AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7505602	94	93	94	96
7505603	98	96	95	95
7505604	98	96	92	91
Blank	97	102	96	96
LCS	94	96	98	101
LCSD	91	95	100	104
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 #: 1483260 Sample #: 7505602-14

Client: Fairfax Petroleum | Acct. #:
Project Name/#: 26140 | PWSID #:
Project Manager: Mark C. Steele | P.O. #:
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	Full list VOCs (8260)	BTEX + fuel oxygenates 8260								Remarks	Temperature of samples upon receipt (if requested)
									H	H									
MW-22	6/18/14	0835	X			X		3	[redacted]	X									
W-7	6/18/14	0925	X			X		3	[redacted]	X								cooler	
W-6	6/18/14	1000	X			X		3	[redacted]	X									
MW-12D(110)	6/18/14	1050	X			X		3	X										
MW-12D(153)	6/18/14	1120	X			X		3	X										
MW-18D(100)	6/18/14	1200	X			X		3	X										
MW-6D (65)	6/18/14	1240	X			X		3	X										
MW-6D (85)	6/18/14	1315	X			X		3	X										
MW-6D(105)	6/18/14	1340	X			X		3	X										
MW-10	6/18/14	1420	X			X		3	X										
MW-24	6/18/14	1450	X			X		3	X										
MW-21S	6/18/14	1535	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:

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	6/18/14	1800	cooler room	6/18/14	1800
[signature]	6/19/14	14:45	[signature]	6/19/14	14:45
[signature]	6/19/14	19:27	[signature]		
			[signature]	6/19/14	1927

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 2

Lancaster Laboratories

Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 12152
Group #: _____ Sample #: _____
1483260 7505602-14

Client: Fairfax Petroleum | Acct. #:
Project Name/#: 26140 | PWSID #:
Project Manager: Mark C. Steele | P.O. #:
Sampler: Tim Boxwell | 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	Potable	NPDES	Water	Other	Total # of Containers	Full list VOCs (8260)									Remarks	Temperature of samples upon receipt (if requested)
											H										
MW-21 I	6/18/14	1610	X					X		3	X										
											X										
											X										
											X										
											X										
											X										
											X										
											X										
											X										
											X										
											X										
											X										
											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
[signature]	6/18/14	1800	Castenson	6/18/14	1800
[signature]	6/19/14	14:40	[signature]	6/19/14	14:40
[signature]	6/19/14	19:27			
			[signature]	6/19/14	1927

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Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client

2 of 2

Explanation of Symbols and Abbreviations

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

RL	[illegible]	**BMQL**	[illegible]
N.D.	[illegible]	**MPN**	[illegible]
TNTC	[illegible]	**CP Units**	[illegible]
IU	[illegible]	**NTU**	[illegible]
umhos/cm	[illegible]	**ng**	[illegible]
C	[illegible]	**F**	[illegible]
meq	[illegible]	**lb.**	[illegible]
g	[illegible]	**kg**	[illegible]
µg	[illegible]	**mg**	[illegible]
mL	[illegible]	**L**	[illegible]
m3	[illegible]	**µL**	[illegible]
		pg/L	[illegible]

< [illegible] of [illegible]

> [illegible]

ppm [illegible]

ppb [illegible]

Dry weight basis [illegible]

Data Qualifiers:

C – [illegible]

J - [illegible]

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	[illegible]	**B**	[illegible]
B	[illegible]	**E**	[illegible]
C	[illegible]	**M**	[illegible]
D	[illegible]	**N**	[illegible]
E	[illegible]	**S**	[illegible]
N	[illegible]	**U**	[illegible]
P	[illegible]	**W**	[illegible]
U	[illegible]	*****	[illegible]
X,Y,Z	[illegible]	**+**	[illegible]

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

[illegible]

[illegible]

[illegible]

WARRANTY AND LIMITS OF LIABILITY [illegible]

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Kleinfelder
1 Speen Street
Framingham MA 01701

June 30, 2014

Project: Fairfax 26140

Submittal Date: 06/20/2014
Group Number: 1483625
PO Number: 51141-294573
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
MW-14 Grab Water	7507457
MW-13 Grab Water	7507458
MW-23D Grab Water	7507459
W-2 Grab Water	7507460
W-1 Grab Water	7507461
MW-16D(95) Grab Water	7507462
PW-1(65) Grab Water	7507463

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: Paxton Wertz
ELECTRONIC COPY TO	Kleinfelder	Attn: Nathan Stevens

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

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Analysis Report

Sample Description: MW-14 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7507457
LL Group # 1483625
Account # 12152

Project Name: Fairfax 26140

Collected: 06/19/2014 10:00 by TB

Submitted: 06/20/2014 19:09
Reported: 06/30/2014 14:01

Kleinfelder
1 Speen Street
Framingham MA 01701

FXPT1

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	**2**	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	**14**	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	**62**	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	< 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-14 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7507457
LL Group # 1483625
Account # 12152

Project Name: Fairfax 26140

Collected: 06/19/2014 10:00 by TB

Submitted: 06/20/2014 19:09
Reported: 06/30/2014 14:01

Kleinfelder
1 Speen Street
Framingham MA 01701

FXPT1

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	T141762AA	06/26/2014 03:16	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T141762AA	06/26/2014 03:16	Sara E Johnson	1

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Analysis Report

Sample Description: MW-13 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7507458
LL Group # 1483625
Account # 12152

Project Name: Fairfax 26140

Collected: 06/19/2014 10:35 by TB

Kleinfelder
1 Speen Street
Framingham MA 01701

Submitted: 06/20/2014 19:09
Reported: 06/30/2014 14:01

FXPT2

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	< 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	< 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	**3**	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	< 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-13 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7507458
LL Group # 1483625
Account # 12152

Project Name: Fairfax 26140

Collected: 06/19/2014 10:35 by TB

Submitted: 06/20/2014 19:09
Reported: 06/30/2014 14:01

Kleinfelder
1 Speen Street
Framingham MA 01701

FXPT2

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	T141762AA	06/26/2014 03:39	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T141762AA	06/26/2014 03:39	Sara E Johnson	1

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Analysis Report

Sample Description: MW-23D Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7507459
LL Group # 1483625
Account # 12152

Project Name: Fairfax 26140

Collected: 06/19/2014 11:10 by TB

Submitted: 06/20/2014 19:09
Reported: 06/30/2014 14:01

Kleinfelder
1 Speen Street
Framingham MA 01701

FXPT3

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	**57**	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	< 200	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	**38**	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	**130**	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	**5,100**	20	20
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: MW-23D Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7507459
LL Group # 1483625
Account # 12152

Project Name: Fairfax 26140

Collected: 06/19/2014 11:10 by TB

Submitted: 06/20/2014 19:09
Reported: 06/30/2014 14:01

Kleinfelder
1 Speen Street
Framingham MA 01701

FXPT3

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

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	T141771AA	06/26/2014 13:48	Linda C Pape	20
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	T141772AA	06/27/2014 05:43	Amanda K Richards	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T141771AA	06/26/2014 13:48	Linda C Pape	20
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T141772AA	06/27/2014 05:43	Amanda K Richards	10

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Analysis Report

Sample Description: W-2 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7507460
LL Group # 1483625
Account # 12152

Project Name: Fairfax 26140

Collected: 06/19/2014 11:45 by TB

Submitted: 06/20/2014 19:09
Reported: 06/30/2014 14:01

Kleinfelder
1 Speen Street
Framingham MA 01701

FXPT4

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	**38**	10	10
10335	Benzene	71-43-2	< 10	10	10
10335	t-Butyl alcohol	75-65-0	< 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	**39**	10	10
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**5,000**	20	20
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	T141771AA	06/26/2014 14:36	Linda C Pape	20
10335	BTEX + 5 Oxys	SW-846 8260B	1	T141772AA	06/27/2014 06:06	Amanda K Richards	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T141771AA	06/26/2014 14:36	Linda C Pape	20
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T141772AA	06/27/2014 06:06	Amanda K Richards	10

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Analysis Report

Sample Description: W-1 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7507461
LL Group # 1483625
Account # 12152

Project Name: Fairfax 26140

Collected: 06/19/2014 12:20 by TB

Submitted: 06/20/2014 19:09
Reported: 06/30/2014 14:01

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1 Speen Street
Framingham MA 01701

FXPT5

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	**140**	50	50
10335	Benzene	71-43-2	< 50	50	50
10335	**t-Butyl alcohol**	75-65-0	**13,000**	1,000	50
10335	Ethyl t-butyl ether	637-92-3	< 50	50	50
10335	Ethylbenzene	100-41-4	< 50	50	50
10335	**di-Isopropyl ether**	108-20-3	**130**	50	50
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**15,000**	500	500
10335	Toluene	108-88-3	< 50	50	50
10335	Xylene (Total)	1330-20-7	< 50	50	50

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	T141771AA	06/26/2014 15:23	Linda C Pape	50
10335	BTEX + 5 Oxys	SW-846 8260B	1	T141771AA	06/26/2014 15:47	Linda C Pape	500
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T141771AA	06/26/2014 15:23	Linda C Pape	50
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T141771AA	06/26/2014 15:47	Linda C Pape	500

Sample Description: MW-16D(95) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7507462
LL Group # 1483625
Account # 12152

Project Name: Fairfax 26140

Collected: 06/19/2014 13:05 by TB

Submitted: 06/20/2014 19:09
Reported: 06/30/2014 14:01

Kleinfelder
1 Speen Street
Framingham MA 01701

FXPT6

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	< 400	400	20
10335	Acrolein	107-02-8	< 2,000	2,000	20
10335	Acrylonitrile	107-13-1	< 400	400	20
10335	**t-Amyl methyl ether**	994-05-8	**280**	20	20
10335	**Benzene**	71-43-2	**28**	20	20
10335	Bromodichloromethane	75-27-4	< 20	20	20
10335	Bromoform	75-25-2	< 80	80	20
10335	Bromomethane	74-83-9	< 20	20	20
10335	2-Butanone	78-93-3	< 200	200	20
10335	**t-Butyl alcohol**	75-65-0	**1,100**	400	20
10335	n-Butylbenzene	104-51-8	< 100	100	20
10335	sec-Butylbenzene	135-98-8	< 100	100	20
10335	Carbon Tetrachloride	56-23-5	< 20	20	20
10335	Chlorobenzene	108-90-7	< 20	20	20
10335	Chloroethane	75-00-3	< 20	20	20
10335	2-Chloroethyl Vinyl Ether	110-75-8	< 200	200	20
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	< 20	20	20
10335	Chloromethane	74-87-3	< 20	20	20
10335	Dibromochloromethane	124-48-1	< 20	20	20
10335	1,2-Dichlorobenzene	95-50-1	< 100	100	20
10335	1,3-Dichlorobenzene	541-73-1	< 100	100	20
10335	1,4-Dichlorobenzene	106-46-7	< 100	100	20
10335	1,1-Dichloroethane	75-34-3	< 20	20	20
10335	1,2-Dichloroethane	107-06-2	< 20	20	20
10335	1,1-Dichloroethene	75-35-4	< 20	20	20
10335	**cis-1,2-Dichloroethene**	156-59-2	**110**	20	20
10335	trans-1,2-Dichloroethene	156-60-5	< 20	20	20
10335	1,2-Dichloropropane	78-87-5	< 20	20	20
10335	cis-1,3-Dichloropropene	10061-01-5	< 20	20	20
10335	trans-1,3-Dichloropropene	10061-02-6	< 20	20	20
10335	Ethyl t-butyl ether	637-92-3	< 20	20	20
10335	Ethylbenzene	100-41-4	< 20	20	20
10335	**di-Isopropyl ether**	108-20-3	**660**	20	20
10335	Isopropylbenzene	98-82-8	< 100	100	20
10335	p-Isopropyltoluene	99-87-6	< 100	100	20
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**13,000**	50	50
10335	Methylene Chloride	75-09-2	< 60	60	20
10335	Naphthalene	91-20-3	< 100	100	20
10335	n-Propylbenzene	103-65-1	< 100	100	20
10335	1,1,2,2-Tetrachloroethane	79-34-5	< 20	20	20
10335	Tetrachloroethene	127-18-4	< 20	20	20
10335	Toluene	108-88-3	< 20	20	20
10335	1,1,1-Trichloroethane	71-55-6	< 20	20	20
10335	1,1,2-Trichloroethane	79-00-5	< 20	20	20
10335	Trichloroethene	79-01-6	< 20	20	20
10335	Trichlorofluoromethane	75-69-4	< 20	20	20
10335	1,2,4-Trimethylbenzene	95-63-6	< 100	100	20

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Analysis Report

Sample Description: MW-16D(95) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7507462
LL Group # 1483625
Account # 12152

Project Name: Fairfax 26140

Collected: 06/19/2014 13:05 by TB

Submitted: 06/20/2014 19:09
Reported: 06/30/2014 14:01

Kleinfelder
1 Speen Street
Framingham MA 01701

FXPT6

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	< 100	100	20
10335	Vinyl Chloride	75-01-4	< 20	20	20
10335	Xylene (Total)	1330-20-7	< 20	20	20

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	T141771AA	06/26/2014 16:11	Linda C Pape	50
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	L141802AA	06/29/2014 21:48	Sarah A Guill	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T141771AA	06/26/2014 16:11	Linda C Pape	50
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L141802AA	06/29/2014 21:48	Sarah A Guill	20

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Analysis Report

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

LL Sample # WW 7507463
LL Group # 1483625
Account # 12152

Project Name: Fairfax 26140

Collected: 06/19/2014 13:40 by TB

Submitted: 06/20/2014 19:09
Reported: 06/30/2014 14:01

Kleinfelder
1 Speen Street
Framingham MA 01701

FXPT7

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	< 100	100	5
10335	Acrolein	107-02-8	< 500	500	5
10335	Acrylonitrile	107-13-1	< 100	100	5
10335	**t-Amyl methyl ether**	994-05-8	**76**	5	5
10335	Benzene	71-43-2	< 5	5	5
10335	Bromodichloromethane	75-27-4	< 5	5	5
10335	Bromoform	75-25-2	< 20	20	5
10335	Bromomethane	74-83-9	< 5	5	5
10335	2-Butanone	78-93-3	< 50	50	5
10335	**t-Butyl alcohol**	75-65-0	**420**	100	5
10335	n-Butylbenzene	104-51-8	< 25	25	5
10335	sec-Butylbenzene	135-98-8	< 25	25	5
10335	Carbon Tetrachloride	56-23-5	< 5	5	5
10335	Chlorobenzene	108-90-7	< 5	5	5
10335	Chloroethane	75-00-3	< 5	5	5
10335	2-Chloroethyl Vinyl Ether	110-75-8	< 50	50	5
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	< 5	5	5
10335	Chloromethane	74-87-3	< 5	5	5
10335	Dibromochloromethane	124-48-1	< 5	5	5
10335	1,2-Dichlorobenzene	95-50-1	< 25	25	5
10335	1,3-Dichlorobenzene	541-73-1	< 25	25	5
10335	1,4-Dichlorobenzene	106-46-7	< 25	25	5
10335	1,1-Dichloroethane	75-34-3	< 5	5	5
10335	1,2-Dichloroethane	107-06-2	< 5	5	5
10335	1,1-Dichloroethene	75-35-4	< 5	5	5
10335	**cis-1,2-Dichloroethene**	156-59-2	**27**	5	5
10335	trans-1,2-Dichloroethene	156-60-5	< 5	5	5
10335	1,2-Dichloropropane	78-87-5	< 5	5	5
10335	cis-1,3-Dichloropropene	10061-01-5	< 5	5	5
10335	trans-1,3-Dichloropropene	10061-02-6	< 5	5	5
10335	Ethyl t-butyl ether	637-92-3	< 5	5	5
10335	Ethylbenzene	100-41-4	< 5	5	5
10335	**di-Isopropyl ether**	108-20-3	**170**	5	5
10335	Isopropylbenzene	98-82-8	< 25	25	5
10335	p-Isopropyltoluene	99-87-6	< 25	25	5
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**3,300**	50	50
10335	Methylene Chloride	75-09-2	< 15	15	5
10335	Naphthalene	91-20-3	< 25	25	5
10335	n-Propylbenzene	103-65-1	< 25	25	5
10335	1,1,2,2-Tetrachloroethane	79-34-5	< 5	5	5
10335	Tetrachloroethene	127-18-4	< 5	5	5
10335	Toluene	108-88-3	< 5	5	5
10335	1,1,1-Trichloroethane	71-55-6	< 5	5	5
10335	1,1,2-Trichloroethane	79-00-5	< 5	5	5
10335	Trichloroethene	79-01-6	< 5	5	5
10335	Trichlorofluoromethane	75-69-4	< 5	5	5
10335	1,2,4-Trimethylbenzene	95-63-6	< 25	25	5

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: PW-1(65) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7507463
LL Group # 1483625
Account # 12152

Project Name: Fairfax 26140

Collected: 06/19/2014 13:40 by TB

Submitted: 06/20/2014 19:09
Reported: 06/30/2014 14:01

Kleinfelder
1 Speen Street
Framingham MA 01701

FXPT7

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	< 25	25	5
10335	Vinyl Chloride	75-01-4	< 5	5	5
10335	Xylene (Total)	1330-20-7	< 5	5	5

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	T141771AA	06/26/2014 16:59	Linda C Pape	5
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	T141771AA	06/26/2014 17:22	Linda C Pape	50
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T141771AA	06/26/2014 16:59	Linda C Pape	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T141771AA	06/26/2014 17:22	Linda C Pape	50

Quality Control Summary

Client Name: Kleinfelder Group Number: 1483625
Reported: 06/30/14 at 02:01 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: L141802AA	Sample number(s): 7507462							
Acetone	< 20	20.	ug/l	97		43-149		
Acrolein	< 100	100.	ug/l	86		52-129		
Acrylonitrile	< 20	20.	ug/l	94		62-120		
t-Amyl methyl ether	< 1	1.	ug/l	95		75-120		
Benzene	< 1	1.	ug/l	99		78-120		
Bromodichloromethane	< 1	1.	ug/l	96		73-120		
Bromoform	< 4	4.	ug/l	88		61-120		
Bromomethane	< 1	1.	ug/l	89		58-120		
2-Butanone	< 10	10.	ug/l	96		54-133		
t-Butyl alcohol	< 20	20.	ug/l	95		75-120		
n-Butylbenzene	< 5	5.	ug/l	94		68-120		
sec-Butylbenzene	< 5	5.	ug/l	94		80-120		
Carbon Tetrachloride	< 1	1.	ug/l	101		74-130		
Chlorobenzene	< 1	1.	ug/l	98		80-120		
Chloroethane	< 1	1.	ug/l	83		56-120		
2-Chloroethyl Vinyl Ether	< 10	10.	ug/l	91		54-126		
Chloroform	< 1	1.	ug/l	100		80-122		
Chloromethane	< 1	1.	ug/l	86		63-120		
Dibromochloromethane	< 1	1.	ug/l	96		72-120		
1,2-Dichlorobenzene	< 5	5.	ug/l	95		80-120		
1,3-Dichlorobenzene	< 5	5.	ug/l	96		80-120		
1,4-Dichlorobenzene	< 5	5.	ug/l	96		80-120		
1,1-Dichloroethane	< 1	1.	ug/l	97		80-120		
1,2-Dichloroethane	< 1	1.	ug/l	101		65-135		
1,1-Dichloroethene	< 1	1.	ug/l	95		76-124		
cis-1,2-Dichloroethene	< 1	1.	ug/l	103		80-120		
trans-1,2-Dichloroethene	< 1	1.	ug/l	101		80-120		
1,2-Dichloropropane	< 1	1.	ug/l	100		80-120		
cis-1,3-Dichloropropene	< 1	1.	ug/l	97		80-120		
trans-1,3-Dichloropropene	< 1	1.	ug/l	96		76-120		
Ethyl t-butyl ether	< 1	1.	ug/l	96		74-120		
Ethylbenzene	< 1	1.	ug/l	97		79-120		
di-Isopropyl ether	< 1	1.	ug/l	102		65-120		
Isopropylbenzene	< 5	5.	ug/l	97		77-120		
p-Isopropyltoluene	< 5	5.	ug/l	93		80-120		
Methylene Chloride	< 3	3.	ug/l	99		80-120		
Naphthalene	< 5	5.	ug/l	92		47-126		
n-Propylbenzene	< 5	5.	ug/l	96		80-120		
1,1,2,2-Tetrachloroethane	< 1	1.	ug/l	92		70-120		
Tetrachloroethene	< 1	1.	ug/l	100		80-120		
Toluene	< 1	1.	ug/l	99		80-120		
1,1,1-Trichloroethane	< 1	1.	ug/l	98		66-126		
1,1,2-Trichloroethane	< 1	1.	ug/l	96		80-120		

*- 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: 1483625
Reported: 06/30/14 at 02:01 PM

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Trichloroethene	< 1	1.	ug/l	100		80-120		
Trichlorofluoromethane	< 1	1.	ug/l	100		65-130		
1,2,4-Trimethylbenzene	< 5	5.	ug/l	96		74-120		
1,3,5-Trimethylbenzene	< 5	5.	ug/l	95		74-120		
Vinyl Chloride	< 1	1.	ug/l	89		63-120		
Xylene (Total)	< 1	1.	ug/l	97		80-120		
Batch number: T141762AA	Sample number(s): 7507457-7507458							
Acetone	< 20	20.	ug/l	103		43-149		
Acrolein	< 100	100.	ug/l	88		52-129		
Acrylonitrile	< 20	20.	ug/l	98		62-120		
t-Amyl methyl ether	< 1	1.	ug/l	88		75-120		
Benzene	< 1	1.	ug/l	97		78-120		
Bromodichloromethane	< 1	1.	ug/l	89		73-120		
Bromoform	< 4	4.	ug/l	97		61-120		
Bromomethane	< 1	1.	ug/l	107		58-120		
2-Butanone	< 10	10.	ug/l	89		54-133		
t-Butyl alcohol	< 20	20.	ug/l	105		75-120		
n-Butylbenzene	< 5	5.	ug/l	96		68-120		
sec-Butylbenzene	< 5	5.	ug/l	96		80-120		
Carbon Tetrachloride	< 1	1.	ug/l	95		74-130		
Chlorobenzene	< 1	1.	ug/l	99		80-120		
Chloroethane	< 1	1.	ug/l	93		56-120		
2-Chloroethyl Vinyl Ether	< 10	10.	ug/l	85		54-126		
Chloroform	< 1	1.	ug/l	96		80-122		
Chloromethane	< 1	1.	ug/l	93		63-120		
Dibromochloromethane	< 1	1.	ug/l	98		72-120		
1,2-Dichlorobenzene	< 5	5.	ug/l	99		80-120		
1,3-Dichlorobenzene	< 5	5.	ug/l	100		80-120		
1,4-Dichlorobenzene	< 5	5.	ug/l	99		80-120		
1,1-Dichloroethane	< 1	1.	ug/l	94		80-120		
1,2-Dichloroethane	< 1	1.	ug/l	96		65-135		
1,1-Dichloroethene	< 1	1.	ug/l	98		76-124		
cis-1,2-Dichloroethene	< 1	1.	ug/l	104		80-120		
trans-1,2-Dichloroethene	< 1	1.	ug/l	105		80-120		
1,2-Dichloropropane	< 1	1.	ug/l	98		80-120		
cis-1,3-Dichloropropene	< 1	1.	ug/l	88		80-120		
trans-1,3-Dichloropropene	< 1	1.	ug/l	87		76-120		
Ethyl t-butyl ether	< 1	1.	ug/l	89		74-120		
Ethylbenzene	< 1	1.	ug/l	97		79-120		
di-Isopropyl ether	< 1	1.	ug/l	88		65-120		
Isopropylbenzene	< 5	5.	ug/l	95		77-120		
p-Isopropyltoluene	< 5	5.	ug/l	94		80-120		
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	84		75-120		
Methylene Chloride	< 3	3.	ug/l	106		80-120		
Naphthalene	< 5	5.	ug/l	98		47-126		
n-Propylbenzene	< 5	5.	ug/l	99		80-120		
1,1,2,2-Tetrachloroethane	< 1	1.	ug/l	91		70-120		
Tetrachloroethene	< 1	1.	ug/l	108		80-120		
Toluene	< 1	1.	ug/l	97		80-120		
1,1,1-Trichloroethane	< 1	1.	ug/l	93		66-126		
1,1,2-Trichloroethane	< 1	1.	ug/l	96		80-120		
Trichloroethene	< 1	1.	ug/l	101		80-120		
Trichlorofluoromethane	< 1	1.	ug/l	102		65-130		
1,2,4-Trimethylbenzene	< 5	5.	ug/l	91		74-120		
1,3,5-Trimethylbenzene	< 5	5.	ug/l	90		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: 1483625
Reported: 06/30/14 at 02:01 PM

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Vinyl Chloride	< 1	1.	ug/l	97		63-120		
Xylene (Total)	< 1	1.	ug/l	95		80-120		
Batch number: T141771AA	Sample number(s): 7507459-7507463							
Acetone	< 20	20.	ug/l	104	103	43-149	1	30
Acrolein	< 100	100.	ug/l	78	80	52-129	3	30
Acrylonitrile	< 20	20.	ug/l	97	96	62-120	1	30
t-Amyl methyl ether	< 1	1.	ug/l	89	90	75-120	1	30
Benzene	< 1	1.	ug/l	94	94	78-120	0	30
Bromodichloromethane	< 1	1.	ug/l	88	87	73-120	0	30
Bromoform	< 4	4.	ug/l	94	97	61-120	3	30
Bromomethane	< 1	1.	ug/l	99	96	58-120	4	30
2-Butanone	< 10	10.	ug/l	90	90	54-133	1	30
t-Butyl alcohol	< 20	20.	ug/l	108	109	75-120	1	30
n-Butylbenzene	< 5	5.	ug/l	99	99	68-120	0	30
sec-Butylbenzene	< 5	5.	ug/l	97	100	80-120	3	30
Carbon Tetrachloride	< 1	1.	ug/l	93	96	74-130	3	30
Chlorobenzene	< 1	1.	ug/l	94	95	80-120	2	30
Chloroethane	< 1	1.	ug/l	94	94	56-120	0	30
2-Chloroethyl Vinyl Ether	< 10	10.	ug/l	89	91	54-126	2	30
Chloroform	< 1	1.	ug/l	96	94	80-122	2	30
Chloromethane	< 1	1.	ug/l	86	85	63-120	1	30
Dibromochloromethane	< 1	1.	ug/l	99	105	72-120	7	30
1,2-Dichlorobenzene	< 5	5.	ug/l	95	100	80-120	5	30
1,3-Dichlorobenzene	< 5	5.	ug/l	93	100	80-120	8	30
1,4-Dichlorobenzene	< 5	5.	ug/l	92	96	80-120	4	30
1,1-Dichloroethane	< 1	1.	ug/l	99	100	80-120	2	30
1,2-Dichloroethane	< 1	1.	ug/l	99	99	65-135	0	30
1,1-Dichloroethene	< 1	1.	ug/l	108	110	76-124	1	30
cis-1,2-Dichloroethene	< 1	1.	ug/l	103	104	80-120	1	30
trans-1,2-Dichloroethene	< 1	1.	ug/l	111	105	80-120	5	30
1,2-Dichloropropane	< 1	1.	ug/l	98	99	80-120	1	30
cis-1,3-Dichloropropene	< 1	1.	ug/l	85	88	80-120	3	30
trans-1,3-Dichloropropene	< 1	1.	ug/l	87	94	76-120	7	30
Ethyl t-butyl ether	< 1	1.	ug/l	94	97	74-120	3	30
Ethylbenzene	< 1	1.	ug/l	100	104	79-120	3	30
di-Isopropyl ether	< 1	1.	ug/l	91	91	65-120	1	30
Isopropylbenzene	< 5	5.	ug/l	95	100	77-120	6	30
p-Isopropyltoluene	< 5	5.	ug/l	95	102	80-120	7	30
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	91	90	75-120	0	30
Methylene Chloride	< 3	3.	ug/l	102	102	80-120	0	30
Naphthalene	< 5	5.	ug/l	99	101	47-126	2	30
n-Propylbenzene	< 5	5.	ug/l	105	107	80-120	2	30
1,1,2,2-Tetrachloroethane	< 1	1.	ug/l	91	94	70-120	2	30
Tetrachloroethene	< 1	1.	ug/l	104	102	80-120	2	30
Toluene	< 1	1.	ug/l	100	103	80-120	2	30
1,1,1-Trichloroethane	< 1	1.	ug/l	94	98	66-126	3	30
1,1,2-Trichloroethane	< 1	1.	ug/l	99	107	80-120	7	30
Trichloroethene	< 1	1.	ug/l	103	104	80-120	1	30
Trichlorofluoromethane	< 1	1.	ug/l	101	100	65-130	1	30
1,2,4-Trimethylbenzene	< 5	5.	ug/l	91	94	74-120	3	30
1,3,5-Trimethylbenzene	< 5	5.	ug/l	91	97	74-120	6	30
Vinyl Chloride	< 1	1.	ug/l	95	97	63-120	2	30
Xylene (Total)	< 1	1.	ug/l	90	95	80-120	5	30
Batch number: T141772AA	Sample number(s): 7507459-7507460							

*- 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: 1483625
Reported: 06/30/14 at 02:01 PM

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Acetone	< 20	20.	ug/l	104	103	43-149	1	30
Acrolein	< 100	100.	ug/l	81	82	52-129	1	30
Acrylonitrile	< 20	20.	ug/l	102	102	62-120	0	30
t-Amyl methyl ether	< 1	1.	ug/l	89	89	75-120	1	30
Benzene	< 1	1.	ug/l	99	102	78-120	3	30
Bromodichloromethane	< 1	1.	ug/l	88	89	73-120	1	30
Bromoform	< 4	4.	ug/l	97	96	61-120	1	30
Bromomethane	< 1	1.	ug/l	106	108	58-120	2	30
2-Butanone	< 10	10.	ug/l	90	91	54-133	1	30
t-Butyl alcohol	< 20	20.	ug/l	105	107	75-120	2	30
n-Butylbenzene	< 5	5.	ug/l	90	98	68-120	8	30
sec-Butylbenzene	< 5	5.	ug/l	91	98	80-120	7	30
Carbon Tetrachloride	< 1	1.	ug/l	94	95	74-130	1	30
Chlorobenzene	< 1	1.	ug/l	98	98	80-120	0	30
Chloroethane	< 1	1.	ug/l	100	103	56-120	3	30
2-Chloroethyl Vinyl Ether	< 10	10.	ug/l	87	89	54-126	2	30
Chloroform	< 1	1.	ug/l	95	96	80-122	0	30
Chloromethane	< 1	1.	ug/l	93	95	63-120	2	30
Dibromochloromethane	< 1	1.	ug/l	96	96	72-120	0	30
1,2-Dichlorobenzene	< 5	5.	ug/l	95	97	80-120	2	30
1,3-Dichlorobenzene	< 5	5.	ug/l	93	96	80-120	3	30
1,4-Dichlorobenzene	< 5	5.	ug/l	93	101	80-120	8	30
1,1-Dichloroethane	< 1	1.	ug/l	97	100	80-120	3	30
1,2-Dichloroethane	< 1	1.	ug/l	96	98	65-135	2	30
1,1-Dichloroethene	< 1	1.	ug/l	103	109	76-124	6	30
cis-1,2-Dichloroethene	< 1	1.	ug/l	103	108	80-120	5	30
trans-1,2-Dichloroethene	< 1	1.	ug/l	110	112	80-120	2	30
1,2-Dichloropropane	< 1	1.	ug/l	99	101	80-120	2	30
cis-1,3-Dichloropropene	< 1	1.	ug/l	89	90	80-120	1	30
trans-1,3-Dichloropropene	< 1	1.	ug/l	87	88	76-120	1	30
Ethyl t-butyl ether	< 1	1.	ug/l	92	94	74-120	2	30
Ethylbenzene	< 1	1.	ug/l	96	101	79-120	5	30
di-Isopropyl ether	< 1	1.	ug/l	91	94	65-120	3	30
Isopropylbenzene	< 5	5.	ug/l	95	96	77-120	1	30
p-Isopropyltoluene	< 5	5.	ug/l	94	97	80-120	4	30
Methylene Chloride	< 3	3.	ug/l	108	112	80-120	3	30
Naphthalene	< 5	5.	ug/l	94	100	47-126	6	30
n-Propylbenzene	< 5	5.	ug/l	96	103	80-120	7	30
1,1,2,2-Tetrachloroethane	< 1	1.	ug/l	90	93	70-120	2	30
Tetrachloroethene	< 1	1.	ug/l	99	109	80-120	10	30
Toluene	< 1	1.	ug/l	99	102	80-120	4	30
1,1,1-Trichloroethane	< 1	1.	ug/l	89	96	66-126	8	30
1,1,2-Trichloroethane	< 1	1.	ug/l	99	97	80-120	2	30
Trichloroethene	< 1	1.	ug/l	99	102	80-120	3	30
Trichlorofluoromethane	< 1	1.	ug/l	97	102	65-130	5	30
1,2,4-Trimethylbenzene	< 5	5.	ug/l	86	93	74-120	8	30
1,3,5-Trimethylbenzene	< 5	5.	ug/l	89	92	74-120	4	30
Vinyl Chloride	< 1	1.	ug/l	96	100	63-120	4	30
Xylene (Total)	< 1	1.	ug/l	91	94	80-120	3	30

Sample Matrix Quality Control

*- 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: 1483625
Reported: 06/30/14 at 02:01 PM
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: L141802AA	Sample number(s): 7507462 UNSPK: P511537								
Acetone	96	99	35-144	3	30				
Acrolein	83	74	39-136	11	30				
Acrylonitrile	95	98	51-125	3	30				
t-Amyl methyl ether	97	99	65-117	2	30				
Benzene	109	109	72-134	0	30				
Bromodichloromethane	103	102	73-125	1	30				
Bromoform	89	87	48-118	3	30				
Bromomethane	93	93	47-129	0	30				
2-Butanone	96	99	44-135	3	30				
t-Butyl alcohol	86	83	67-119	4	30				
n-Butylbenzene	101	103	74-134	1	30				
sec-Butylbenzene	103	104	74-137	1	30				
Carbon Tetrachloride	118	116	75-148	2	30				
Chlorobenzene	105	105	87-124	1	30				
Chloroethane	92	90	55-130	2	30				
2-Chloroethyl Vinyl Ether	0*	0*	10-151	0	30				
Chloroform	108	108	81-134	0	30				
Chloromethane	93	94	61-125	1	30				
Dibromochloromethane	101	99	74-116	2	30				
1,2-Dichlorobenzene	98	99	84-119	1	30				
1,3-Dichlorobenzene	99	100	86-121	2	30				
1,4-Dichlorobenzene	99	101	85-121	2	30				
1,1-Dichloroethane	104	108	84-129	3	30				
1,2-Dichloroethane	106	105	63-142	1	30				
1,1-Dichloroethene	111	107	79-137	2	30				
cis-1,2-Dichloroethene	40 (2)	72 (2)	80-141	5	30				
trans-1,2-Dichloroethene	113	113	86-131	0	30				
1,2-Dichloropropane	107	107	83-124	0	30				
cis-1,3-Dichloropropene	97	101	70-116	3	30				
trans-1,3-Dichloropropene	100	100	74-119	0	30				
Ethyl t-butyl ether	98	101	74-122	3	30				
Ethylbenzene	106	105	71-134	0	30				
di-Isopropyl ether	105	108	70-129	2	30				
Isopropylbenzene	104	104	75-128	0	30				
p-Isopropyltoluene	100	101	76-123	1	30				
Methylene Chloride	105	106	78-133	1	30				
Naphthalene	89	93	52-125	5	30				
n-Propylbenzene	103	106	74-134	2	30				
1,1,2,2-Tetrachloroethane	93	95	72-128	3	30				
Tetrachloroethene	112	110	80-128	2	30				
Toluene	108	107	80-125	1	30				
1,1,1-Trichloroethane	100	99	69-140	0	30				
1,1,2-Trichloroethane	98	97	71-141	1	30				
Trichloroethene	41 (2)	57 (2)	88-133	1	30				
Trichlorofluoromethane	118	114	63-163	4	30				
1,2,4-Trimethylbenzene	101	103	72-130	2	30				
1,3,5-Trimethylbenzene	101	103	65-132	2	30				
Vinyl Chloride	103	102	66-133	1	30				
Xylene (Total)	105	105	79-125	0	30				
Batch number: T141762AA	Sample number(s): 7507457-7507458 UNSPK: P509105								

*- 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: 1483625
Reported: 06/30/14 at 02:01 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
Acetone	102	104	35-144	3	30				
Acrolein	84	86	39-136	2	30				
Acrylonitrile	97	100	51-125	3	30				
t-Amyl methyl ether	91	92	65-117	2	30				
Benzene	103	104	72-134	1	30				
Bromodichloromethane	93	91	73-125	2	30				
Bromoform	96	94	48-118	2	30				
Bromomethane	113	111	47-129	2	30				
2-Butanone	87	88	44-135	1	30				
t-Butyl alcohol	105	104	67-119	0	30				
n-Butylbenzene	102	109	74-134	7	30				
sec-Butylbenzene	102	104	74-137	3	30				
Carbon Tetrachloride	106	103	75-148	3	30				
Chlorobenzene	101	101	87-124	0	30				
Chloroethane	111	106	55-130	5	30				
2-Chloroethyl Vinyl Ether	0*	0*	10-151	0	30				
Chloroform	104	101	81-134	3	30				
Chloromethane	100	100	61-125	0	30				
Dibromochloromethane	95	100	74-116	6	30				
1,2-Dichlorobenzene	104	103	84-119	1	30				
1,3-Dichlorobenzene	106	101	86-121	4	30				
1,4-Dichlorobenzene	101	100	85-121	1	30				
1,1-Dichloroethane	102	103	84-129	1	30				
1,2-Dichloroethane	99	102	63-142	3	30				
1,1-Dichloroethene	114	111	79-137	3	30				
cis-1,2-Dichloroethene	109	110	80-141	1	30				
trans-1,2-Dichloroethene	112	118	86-131	6	30				
1,2-Dichloropropane	103	105	83-124	2	30				
cis-1,3-Dichloropropene	87	93	70-116	6	30				
trans-1,3-Dichloropropene	84	89	74-119	5	30				
Ethyl t-butyl ether	91	96	74-122	5	30				
Ethylbenzene	105	110	71-134	4	30				
di-Isopropyl ether	90	93	70-129	3	30				
Isopropylbenzene	102	110	75-128	7	30				
p-Isopropyltoluene	104	106	76-123	1	30				
Methyl Tertiary Butyl Ether	87	90	72-126	4	30				
Methylene Chloride	117	114	78-133	3	30				
Naphthalene	102	105	52-125	3	30				
n-Propylbenzene	107	113	74-134	4	30				
1,1,2,2-Tetrachloroethane	89	92	72-128	3	30				
Tetrachloroethene	114	117	80-128	3	30				
Toluene	99	105	80-125	6	30				
1,1,1-Trichloroethane	101	101	69-140	0	30				
1,1,2-Trichloroethane	103	106	71-141	3	30				
Trichloroethene	111	107	88-133	3	30				
Trichlorofluoromethane	116	115	63-163	1	30				
1,2,4-Trimethylbenzene	97	99	72-130	1	30				
1,3,5-Trimethylbenzene	100	102	65-132	2	30				
Vinyl Chloride	105	108	66-133	3	30				
Xylene (Total)	101	103	79-125	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: 1483625
Reported: 06/30/14 at 02:01 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: L141802AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7507462	102	99	97	95
Blank	105	103	97	95
LCS	102	102	101	101
MS	102	99	100	100
MSD	102	102	101	99
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 8260 VOCs
Batch number: T141762AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7507457	101	97	93	89
7507458	102	102	91	89
Blank	102	97	92	90
LCS	97	99	96	96
MS	96	97	92	94
MSD	95	96	96	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 8260 VOCs
Batch number: T141771AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7507461	102	102	90	89
7507463	104	102	92	85
Blank	98	95	95	95
LCS	93	92	99	100
LCSD	92	92	102	104
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 8260 VOCs
Batch number: T141772AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7507459	104	107	91	87
7507460	106	101	92	89
Blank	100	99	94	93
LCS	94	95	94	98
LCSD	95	97	98	99
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.

Quality Control Summary

Client Name: Kleinfelder
Group Number: 1483625
Reported: 06/30/14 at 02:01 PM

*- 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 #: 1483625 Sample #: 7507457-63

Client: Fairfax Petroleum | Acct. #:
Project Name/#: 26140 | PWSID #:
Project Manager: Mark C. Steele | P.O. #:
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	Potable Water	NPDES Water	Other	Total # of Containers	BTEX + Oxy 8260	Full TCL + VOCs + 8260								Remarks	Temperature of samples upon receipt (if requested)
										H	H									
MW14	6/19/14	1000	X			X			3	[redacted]	X									
MW-13	6/19/14	1035	X			X			3	[redacted]	X									
MW235	6/19/14	1110	X			X			3	[redacted]	X									
W-2	6/19/14	1145	X			X			3	X										
W-1	6/19/14	1220	X			X			3	X										
MW160(95)	6/19/14	1305	X			X			3		X									
PW-1(65)	6/19/14	1340	X			X			3		X									

cooler

2.8

2.8

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
[signature]	6/19/14	1500	Cooler room	6/19/14	1500
V. Willer	6/20/14	1035	[signature]	6/20/14	1035
			[signature]	6/20/14	1900

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

Explanation of Symbols and Abbreviations

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

RL	[illegible]	**BMQL**	[illegible]
N.D.	[illegible]	**MPN**	[illegible]
TNTC	[illegible]	**CP Units**	[illegible]
IU	[illegible]	**NTU**	[illegible]
umhos/cm	[illegible]	**ng**	[illegible]
C	[illegible]	**F**	[illegible]
meq	[illegible]	**lb.**	[illegible]
g	[illegible]	**kg**	[illegible]
µg	[illegible]	**mg**	[illegible]
mL	[illegible]	**L**	[illegible]
m3	[illegible]	**µL**	[illegible]
		pg/L	[illegible]

< [illegible] of [illegible]

> [illegible]

ppm [illegible]

ppb [illegible]

Dry weight basis [illegible]

Data Qualifiers:

C – [illegible]

J - [illegible]

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	[illegible]	**B**	[illegible]
B	[illegible]	**E**	[illegible]
C	[illegible]	**M**	[illegible]
D	[illegible]	**N**	[illegible]
E	[illegible]	**S**	[illegible]
N	[illegible]	**U**	[illegible]
P	[illegible]	**W**	[illegible]
U	[illegible]	*****	[illegible]
X,Y,Z	[illegible]	**+**	[illegible]

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

[illegible]

[illegible]

[illegible]

WARRANTY AND LIMITS OF LIABILITY [illegible]

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Kleinfelder
1 Speen Street
Framingham MA 01701

June 27, 2014

Project: Fairfax 26140

Submittal Date: 06/21/2014
Group Number: 1483715
PO Number: 51141-294573
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
MW-19D Grab Water	7508145
MW-2 Grab Water	7508146
MW-15 Grab Water	7508147
MW-11 Grab Water	7508148
MW-7 Grab Water	7508149
MW-1 Grab Water	7508150

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: Paxton Wertz
ELECTRONIC COPY TO	Kleinfelder	Attn: Nathan Stevens

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 7508145
LL Group # 1483715
Account # 12152

Project Name: Fairfax 26140

Collected: 06/20/2014 06:30 by TB

Kleinfelder
1 Speen Street
Framingham MA 01701

Submitted: 06/21/2014 08:50
Reported: 06/27/2014 18:09

FX261

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	**9**	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	**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
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 7508145
LL Group # 1483715
Account # 12152

Project Name: Fairfax 26140

Collected: 06/20/2014 06:30 by TB

Submitted: 06/21/2014 08:50
Reported: 06/27/2014 18:09

Kleinfelder
1 Speen Street
Framingham MA 01701

FX261

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	Y141772AA	06/26/2014 23:04	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y141772AA	06/26/2014 23:04	Sara E Johnson	1

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Analysis Report

Sample Description: MW-2 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7508146
LL Group # 1483715
Account # 12152

Project Name: Fairfax 26140

Collected: 06/20/2014 07:05 by TB

Submitted: 06/21/2014 08:50
Reported: 06/27/2014 18:09

Kleinfelder
1 Speen Street
Framingham MA 01701

FX262

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	**7**	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	**29**	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	**450**	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-2 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7508146
LL Group # 1483715
Account # 12152

Project Name: Fairfax 26140

Collected: 06/20/2014 07:05 by TB

Submitted: 06/21/2014 08:50
Reported: 06/27/2014 18:09

Kleinfelder
1 Speen Street
Framingham MA 01701

FX262

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	Y141772AA	06/26/2014 23:26	Sara E Johnson	1
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	Y141772AA	06/26/2014 23:47	Sara E Johnson	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y141772AA	06/26/2014 23:26	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y141772AA	06/26/2014 23:47	Sara E Johnson	10

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Analysis Report

Sample Description: MW-15 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7508147
LL Group # 1483715
Account # 12152

Project Name: Fairfax 26140

Collected: 06/20/2014 07:40 by TB

Submitted: 06/21/2014 08:50
Reported: 06/27/2014 18:09

Kleinfelder
1 Speen Street
Framingham MA 01701

FX263

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	< 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	**17**	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	**42**	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	< 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-15 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7508147
LL Group # 1483715
Account # 12152

Project Name: Fairfax 26140

Collected: 06/20/2014 07:40 by TB

Submitted: 06/21/2014 08:50
Reported: 06/27/2014 18:09

Kleinfelder
1 Speen Street
Framingham MA 01701

FX263

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	Y141772AA	06/27/2014 00:08	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y141772AA	06/27/2014 00:08	Sara E Johnson	1

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Analysis Report

Sample Description: MW-11 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7508148
LL Group # 1483715
Account # 12152

Project Name: Fairfax 26140

Collected: 06/20/2014 08:20 by TB

Kleinfelder
1 Speen Street
Framingham MA 01701

Submitted: 06/21/2014 08:50
Reported: 06/27/2014 18:09

FX264

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	< 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	**6**	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	**27**	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	< 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-11 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7508148
LL Group # 1483715
Account # 12152

Project Name: Fairfax 26140

Collected: 06/20/2014 08:20 by TB

Submitted: 06/21/2014 08:50
Reported: 06/27/2014 18:09

Kleinfelder
1 Speen Street
Framingham MA 01701

FX264

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	Y141772AA	06/27/2014 00:29	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y141772AA	06/27/2014 00:29	Sara E Johnson	1

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Analysis Report

Sample Description: MW-7 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7508149
LL Group # 1483715
Account # 12152

Project Name: Fairfax 26140

Collected: 06/20/2014 08:55 by TB

Submitted: 06/21/2014 08:50
Reported: 06/27/2014 18:09

Kleinfelder
1 Speen Street
Framingham MA 01701

FX265

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	**35**	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	**9**	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	**72**	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	**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: MW-7 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7508149
LL Group # 1483715
Account # 12152

Project Name: Fairfax 26140

Collected: 06/20/2014 08:55 by TB

Submitted: 06/21/2014 08:50
Reported: 06/27/2014 18:09

Kleinfelder
1 Speen Street
Framingham MA 01701

FX265

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	Y141772AA	06/27/2014 00:51	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y141772AA	06/27/2014 00:51	Sara E Johnson	1

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Analysis Report

Sample Description: MW-1 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7508150
LL Group # 1483715
Account # 12152

Project Name: Fairfax 26140

Collected: 06/20/2014 09:40 by TB

Submitted: 06/21/2014 08:50
Reported: 06/27/2014 18:09

Kleinfelder
1 Speen Street
Framingham MA 01701

FX266

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	< 400	400	20
10335	Acrolein	107-02-8	< 2,000	2,000	20
10335	Acrylonitrile	107-13-1	< 400	400	20
10335	**t-Amyl methyl ether**	994-05-8	**210**	20	20
10335	Benzene	71-43-2	< 20	20	20
10335	Bromodichloromethane	75-27-4	< 20	20	20
10335	Bromoform	75-25-2	< 80	80	20
10335	Bromomethane	74-83-9	< 20	20	20
10335	2-Butanone	78-93-3	< 200	200	20
10335	t-Butyl alcohol	75-65-0	< 400	400	20
10335	n-Butylbenzene	104-51-8	< 100	100	20
10335	sec-Butylbenzene	135-98-8	< 100	100	20
10335	Carbon Tetrachloride	56-23-5	< 20	20	20
10335	Chlorobenzene	108-90-7	< 20	20	20
10335	Chloroethane	75-00-3	< 20	20	20
10335	2-Chloroethyl Vinyl Ether	110-75-8	< 200	200	20
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	< 20	20	20
10335	Chloromethane	74-87-3	< 20	20	20
10335	Dibromochloromethane	124-48-1	< 20	20	20
10335	1,2-Dichlorobenzene	95-50-1	< 100	100	20
10335	1,3-Dichlorobenzene	541-73-1	< 100	100	20
10335	1,4-Dichlorobenzene	106-46-7	< 100	100	20
10335	1,1-Dichloroethane	75-34-3	< 20	20	20
10335	1,2-Dichloroethane	107-06-2	< 20	20	20
10335	1,1-Dichloroethene	75-35-4	< 20	20	20
10335	cis-1,2-Dichloroethene	156-59-2	< 20	20	20
10335	trans-1,2-Dichloroethene	156-60-5	< 20	20	20
10335	1,2-Dichloropropane	78-87-5	< 20	20	20
10335	cis-1,3-Dichloropropene	10061-01-5	< 20	20	20
10335	trans-1,3-Dichloropropene	10061-02-6	< 20	20	20
10335	Ethyl t-butyl ether	637-92-3	< 20	20	20
10335	Ethylbenzene	100-41-4	< 20	20	20
10335	**di-Isopropyl ether**	108-20-3	**490**	20	20
10335	Isopropylbenzene	98-82-8	< 100	100	20
10335	p-Isopropyltoluene	99-87-6	< 100	100	20
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**20,000**	200	200
10335	Methylene Chloride	75-09-2	< 60	60	20
10335	Naphthalene	91-20-3	< 100	100	20
10335	n-Propylbenzene	103-65-1	< 100	100	20
10335	1,1,2,2-Tetrachloroethane	79-34-5	< 20	20	20
10335	Tetrachloroethene	127-18-4	< 20	20	20
10335	Toluene	108-88-3	< 20	20	20
10335	1,1,1-Trichloroethane	71-55-6	< 20	20	20
10335	1,1,2-Trichloroethane	79-00-5	< 20	20	20
10335	Trichloroethene	79-01-6	< 20	20	20
10335	Trichlorofluoromethane	75-69-4	< 20	20	20
10335	1,2,4-Trimethylbenzene	95-63-6	< 100	100	20
10335	1,3,5-Trimethylbenzene	108-67-8	< 100	100	20

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Analysis Report

Sample Description: MW-1 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7508150
LL Group # 1483715
Account # 12152

Project Name: Fairfax 26140

Collected: 06/20/2014 09:40 by TB

Submitted: 06/21/2014 08:50
Reported: 06/27/2014 18:09

Kleinfelder
1 Speen Street
Framingham MA 01701

FX266

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	< 20	20	20
10335	Xylene (Total)	1330-20-7	< 20	20	20

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	Y141772AA	06/27/2014 01:12	Sara E Johnson	20
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	Y141772AA	06/27/2014 01:33	Sara E Johnson	200
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y141772AA	06/27/2014 01:12	Sara E Johnson	20
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y141772AA	06/27/2014 01:33	Sara E Johnson	200

Quality Control Summary

Client Name: Kleinfelder Group Number: 1483715
Reported: 06/27/14 at 06:09 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: Y141772AA	Sample number(s): 7508145-7508150							
Acetone	< 20	20.	ug/l	98		43-149		
Acrolein	< 100	100.	ug/l	78		52-129		
Acrylonitrile	< 20	20.	ug/l	94		62-120		
t-Amyl methyl ether	< 1	1.	ug/l	96		75-120		
Benzene	< 1	1.	ug/l	102		78-120		
Bromodichloromethane	< 1	1.	ug/l	99		73-120		
Bromoform	< 4	4.	ug/l	82		61-120		
Bromomethane	< 1	1.	ug/l	98		58-120		
2-Butanone	< 10	10.	ug/l	101		54-133		
t-Butyl alcohol	< 20	20.	ug/l	116		75-120		
n-Butylbenzene	< 5	5.	ug/l	107		68-120		
sec-Butylbenzene	< 5	5.	ug/l	106		80-120		
Carbon Tetrachloride	< 1	1.	ug/l	108		74-130		
Chlorobenzene	< 1	1.	ug/l	104		80-120		
Chloroethane	< 1	1.	ug/l	92		56-120		
2-Chloroethyl Vinyl Ether	< 10	10.	ug/l	98		54-126		
Chloroform	< 1	1.	ug/l	108		80-122		
Chloromethane	< 1	1.	ug/l	100		63-120		
Dibromochloromethane	< 1	1.	ug/l	88		72-120		
1,2-Dichlorobenzene	< 5	5.	ug/l	102		80-120		
1,3-Dichlorobenzene	< 5	5.	ug/l	100		80-120		
1,4-Dichlorobenzene	< 5	5.	ug/l	101		80-120		
1,1-Dichloroethane	< 1	1.	ug/l	106		80-120		
1,2-Dichloroethane	< 1	1.	ug/l	122		65-135		
1,1-Dichloroethene	< 1	1.	ug/l	96		76-124		
cis-1,2-Dichloroethene	< 1	1.	ug/l	103		80-120		
trans-1,2-Dichloroethene	< 1	1.	ug/l	103		80-120		
1,2-Dichloropropane	< 1	1.	ug/l	99		80-120		
cis-1,3-Dichloropropene	< 1	1.	ug/l	94		80-120		
trans-1,3-Dichloropropene	< 1	1.	ug/l	98		76-120		
Ethyl t-butyl ether	< 1	1.	ug/l	96		74-120		
Ethylbenzene	< 1	1.	ug/l	101		79-120		
di-Isopropyl ether	< 1	1.	ug/l	101		65-120		
Isopropylbenzene	< 5	5.	ug/l	102		77-120		
p-Isopropyltoluene	< 5	5.	ug/l	104		80-120		
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	101		75-120		
Methylene Chloride	< 3	3.	ug/l	101		80-120		
Naphthalene	< 5	5.	ug/l	104		47-126		
n-Propylbenzene	< 5	5.	ug/l	106		80-120		
1,1,2,2-Tetrachloroethane	< 1	1.	ug/l	103		70-120		
Tetrachloroethene	< 1	1.	ug/l	103		80-120		
Toluene	< 1	1.	ug/l	104		80-120		
1,1,1-Trichloroethane	< 1	1.	ug/l	100		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: 1483715
Reported: 06/27/14 at 06:09 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	104		80-120		
Trichloroethene	< 1	1.	ug/l	105		80-120		
Trichlorofluoromethane	< 1	1.	ug/l	94		65-130		
1,2,4-Trimethylbenzene	< 5	5.	ug/l	104		74-120		
1,3,5-Trimethylbenzene	< 5	5.	ug/l	104		74-120		
Vinyl Chloride	< 1	1.	ug/l	98		63-120		
Xylene (Total)	< 1	1.	ug/l	102		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: Y141772AA	Sample number(s): 7508145-7508150 UNSPK: P507471								
Acetone	85	86	35-144	1	30				
Acrolein	87	83	39-136	5	30				
Acrylonitrile	93	94	51-125	1	30				
t-Amyl methyl ether	100	101	65-117	1	30				
Benzene	67 (2)	30 (2)	72-134	5	30				
Bromodichloromethane	106	104	73-125	2	30				
Bromoform	87	85	48-118	2	30				
Bromomethane	107	105	47-129	2	30				
2-Butanone	92	91	44-135	1	30				
t-Butyl alcohol	113	89	67-119	23	30				
n-Butylbenzene	104	100	74-134	4	30				
sec-Butylbenzene	110	107	74-137	2	30				
Carbon Tetrachloride	124	121	75-148	3	30				
Chlorobenzene	110	108	87-124	2	30				
Chloroethane	102	103	55-130	1	30				
2-Chloroethyl Vinyl Ether	0*	0*	10-151	0	30				
Chloroform	115	113	81-134	1	30				
Chloromethane	113	116	61-125	2	30				
Dibromochloromethane	96	93	74-116	3	30				
1,2-Dichlorobenzene	103	101	84-119	2	30				
1,3-Dichlorobenzene	102	101	86-121	1	30				
1,4-Dichlorobenzene	103	102	85-121	2	30				
1,1-Dichloroethane	113	113	84-129	0	30				
1,2-Dichloroethane	139	134	63-142	4	30				
1,1-Dichloroethene	111	111	79-137	0	30				
cis-1,2-Dichloroethene	111	111	80-141	0	30				
trans-1,2-Dichloroethene	118	117	86-131	1	30				
1,2-Dichloropropane	107	106	83-124	1	30				
cis-1,3-Dichloropropene	99	98	70-116	0	30				
trans-1,3-Dichloropropene	103	102	74-119	1	30				
Ethyl t-butyl ether	102	103	74-122	1	30				
Ethylbenzene	103	93	71-134	4	30				
di-Isopropyl ether	105	108	70-129	3	30				
Isopropylbenzene	112	108	75-128	4	30				
p-Isopropyltoluene	104	106	76-123	1	30				
Methyl Tertiary Butyl Ether	108	108	72-126	0	30				
Methylene Chloride	110	113	78-133	3	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: 1483715
Reported: 06/27/14 at 06:09 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	69 (2)	43 (2)	52-125	4	30				
n-Propylbenzene	112	108	74-134	3	30				
1,1,2,2-Tetrachloroethane	105	103	72-128	2	30				
Tetrachloroethene	109	108	80-128	2	30				
Toluene	113	110	80-125	2	30				
1,1,1-Trichloroethane	113	111	69-140	2	30				
1,1,2-Trichloroethane	111	110	71-141	1	30				
Trichloroethene	117	114	88-133	3	30				
Trichlorofluoromethane	107	105	63-163	2	30				
1,2,4-Trimethylbenzene	101	95	72-130	3	30				
1,3,5-Trimethylbenzene	107	103	65-132	3	30				
Vinyl Chloride	115	114	66-133	1	30				
Xylene (Total)	108	103	79-125	3	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: Y141772AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7508145	102	100	102	98
7508146	102	101	100	98
7508147	103	102	101	99
7508148	103	101	101	99
7508149	103	101	100	97
7508150	102	102	101	97
Blank	104	102	100	97
LCS	103	101	103	103
MS	102	101	102	103
MSD	102	102	102	103
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 #: 1483715 Sample #: 7508145-50

Client: Fairfax Petroleum
Acct. #:
Project Name/#: 26140
PWSID #:
Project Manager: Mark C. Steele
P.O. #:
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	Potable	NPDES	Water	Other	Total # of Containers	[redacted]	Full List VOCs + oxygenates 8260								Remarks	Temperature of samples upon receipt (if requested)
MW190	6/20/14	0630	X					X		3		X									
MW-2	6/20/14	0705	X					X		3		X								water	
MW-15	6/20/14	0740	X					X		3		X									
MW-11	6/20/14	0820	X					X		3		X									
MW-7	6/20/14	0855	X					X		3		X									
MW-1	6/20/14	0940	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
[signature]	6/20/14	1520	UPS	6/24/14	1520
			[signature]	6/21/14	0850

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	[illegible]	**BMQL**	[illegible]
N.D.	[illegible]	**MPN**	[illegible]
TNTC	[illegible]	**CP Units**	[illegible]
IU	[illegible]	**NTU**	[illegible]
umhos/cm	[illegible]	**ng**	[illegible]
C	[illegible]	**F**	[illegible]
meq	[illegible]	**lb.**	[illegible]
g	[illegible]	**kg**	[illegible]
µg	[illegible]	**mg**	[illegible]
mL	[illegible]	**L**	[illegible]
m3	[illegible]	**µL**	[illegible]
		pg/L	[illegible]

< [illegible] of [illegible]

> [illegible]

ppm [illegible]

ppb [illegible]

Dry weight basis [illegible]

Data Qualifiers:

C – [illegible]

J - [illegible]

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	[illegible]	**B**	[illegible]
B	[illegible]	**E**	[illegible]
C	[illegible]	**M**	[illegible]
D	[illegible]	**N**	[illegible]
E	[illegible]	**S**	[illegible]
N	[illegible]	**U**	[illegible]
P	[illegible]	**W**	[illegible]
U	[illegible]	*****	[illegible]
X,Y,Z	[illegible]	**+**	[illegible]

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

[illegible]

[illegible]

[illegible]

WARRANTY AND LIMITS OF LIABILITY [illegible]

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Kleinfelder
1 Speen Street
Framingham MA 01701

June 27, 2014

Project: Fairfax 26140

Submittal Date: 06/21/2014
Group Number: 1483716
PO Number: 51141-294573
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
GFSTMW-1 Grab Water	7508151

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: Paxton Wertz
ELECTRONIC COPY TO	Kleinfelder	Attn: Nathan Stevens

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

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Lancaster Laboratories Environmental
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Analysis Report

Sample Description: GFSTMW-1 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7508151
LL Group # 1483716
Account # 12152

Project Name: Fairfax 26140

Collected: 06/20/2014 13:10 by TB

Submitted: 06/21/2014 08:50
Reported: 06/27/2014 18:09

Kleinfelder
1 Speen Street
Framingham MA 01701

GTFSM

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	**10**	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	< 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	< 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
10335	Vinyl Chloride	75-01-4	< 1	1	1

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Analysis Report

Sample Description: GFSTMW-1 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7508151
LL Group # 1483716
Account # 12152

Project Name: Fairfax 26140

Collected: 06/20/2014 13:10 by TB

Submitted: 06/21/2014 08:50
Reported: 06/27/2014 18:09

Kleinfelder
1 Speen Street
Framingham MA 01701

GTFSM

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	Y141772AA	06/27/2014 01:54	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y141772AA	06/27/2014 01:54	Sara E Johnson	1

Quality Control Summary

Client Name: Kleinfelder Group Number: 1483716
Reported: 06/27/14 at 06:09 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: Y141772AA	Sample number(s): 7508151							
Acetone	< 20	20.	ug/l	98		43-149		
Acrolein	< 100	100.	ug/l	78		52-129		
Acrylonitrile	< 20	20.	ug/l	94		62-120		
t-Amyl methyl ether	< 1	1.	ug/l	96		75-120		
Benzene	< 1	1.	ug/l	102		78-120		
Bromodichloromethane	< 1	1.	ug/l	99		73-120		
Bromoform	< 4	4.	ug/l	82		61-120		
Bromomethane	< 1	1.	ug/l	98		58-120		
2-Butanone	< 10	10.	ug/l	101		54-133		
t-Butyl alcohol	< 20	20.	ug/l	116		75-120		
n-Butylbenzene	< 5	5.	ug/l	107		68-120		
sec-Butylbenzene	< 5	5.	ug/l	106		80-120		
Carbon Tetrachloride	< 1	1.	ug/l	108		74-130		
Chlorobenzene	< 1	1.	ug/l	104		80-120		
Chloroethane	< 1	1.	ug/l	92		56-120		
2-Chloroethyl Vinyl Ether	< 10	10.	ug/l	98		54-126		
Chloroform	< 1	1.	ug/l	108		80-122		
Chloromethane	< 1	1.	ug/l	100		63-120		
Dibromochloromethane	< 1	1.	ug/l	88		72-120		
1,2-Dichlorobenzene	< 5	5.	ug/l	102		80-120		
1,3-Dichlorobenzene	< 5	5.	ug/l	100		80-120		
1,4-Dichlorobenzene	< 5	5.	ug/l	101		80-120		
1,1-Dichloroethane	< 1	1.	ug/l	106		80-120		
1,2-Dichloroethane	< 1	1.	ug/l	122		65-135		
1,1-Dichloroethene	< 1	1.	ug/l	96		76-124		
cis-1,2-Dichloroethene	< 1	1.	ug/l	103		80-120		
trans-1,2-Dichloroethene	< 1	1.	ug/l	103		80-120		
1,2-Dichloropropane	< 1	1.	ug/l	99		80-120		
cis-1,3-Dichloropropene	< 1	1.	ug/l	94		80-120		
trans-1,3-Dichloropropene	< 1	1.	ug/l	98		76-120		
Ethyl t-butyl ether	< 1	1.	ug/l	96		74-120		
Ethylbenzene	< 1	1.	ug/l	101		79-120		
di-Isopropyl ether	< 1	1.	ug/l	101		65-120		
Isopropylbenzene	< 5	5.	ug/l	102		77-120		
p-Isopropyltoluene	< 5	5.	ug/l	104		80-120		
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	101		75-120		
Methylene Chloride	< 3	3.	ug/l	101		80-120		
Naphthalene	< 5	5.	ug/l	104		47-126		
n-Propylbenzene	< 5	5.	ug/l	106		80-120		
1,1,2,2-Tetrachloroethane	< 1	1.	ug/l	103		70-120		
Tetrachloroethene	< 1	1.	ug/l	103		80-120		
Toluene	< 1	1.	ug/l	104		80-120		
1,1,1-Trichloroethane	< 1	1.	ug/l	100		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: 1483716
Reported: 06/27/14 at 06:09 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	104		80-120		
Trichloroethene	< 1	1.	ug/l	105		80-120		
Trichlorofluoromethane	< 1	1.	ug/l	94		65-130		
1,2,4-Trimethylbenzene	< 5	5.	ug/l	104		74-120		
1,3,5-Trimethylbenzene	< 5	5.	ug/l	104		74-120		
Vinyl Chloride	< 1	1.	ug/l	98		63-120		
Xylene (Total)	< 1	1.	ug/l	102		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: Y141772AA	Sample number(s): 7508151 UNSPK: P507471								
Acetone	85	86	35-144	1	30				
Acrolein	87	83	39-136	5	30				
Acrylonitrile	93	94	51-125	1	30				
t-Amyl methyl ether	100	101	65-117	1	30				
Benzene	67 (2)	30 (2)	72-134	5	30				
Bromodichloromethane	106	104	73-125	2	30				
Bromoform	87	85	48-118	2	30				
Bromomethane	107	105	47-129	2	30				
2-Butanone	92	91	44-135	1	30				
t-Butyl alcohol	113	89	67-119	23	30				
n-Butylbenzene	104	100	74-134	4	30				
sec-Butylbenzene	110	107	74-137	2	30				
Carbon Tetrachloride	124	121	75-148	3	30				
Chlorobenzene	110	108	87-124	2	30				
Chloroethane	102	103	55-130	1	30				
2-Chloroethyl Vinyl Ether	0*	0*	10-151	0	30				
Chloroform	115	113	81-134	1	30				
Chloromethane	113	116	61-125	2	30				
Dibromochloromethane	96	93	74-116	3	30				
1,2-Dichlorobenzene	103	101	84-119	2	30				
1,3-Dichlorobenzene	102	101	86-121	1	30				
1,4-Dichlorobenzene	103	102	85-121	2	30				
1,1-Dichloroethane	113	113	84-129	0	30				
1,2-Dichloroethane	139	134	63-142	4	30				
1,1-Dichloroethene	111	111	79-137	0	30				
cis-1,2-Dichloroethene	111	111	80-141	0	30				
trans-1,2-Dichloroethene	118	117	86-131	1	30				
1,2-Dichloropropane	107	106	83-124	1	30				
cis-1,3-Dichloropropene	99	98	70-116	0	30				
trans-1,3-Dichloropropene	103	102	74-119	1	30				
Ethyl t-butyl ether	102	103	74-122	1	30				
Ethylbenzene	103	93	71-134	4	30				
di-Isopropyl ether	105	108	70-129	3	30				
Isopropylbenzene	112	108	75-128	4	30				
p-Isopropyltoluene	104	106	76-123	1	30				
Methyl Tertiary Butyl Ether	108	108	72-126	0	30				
Methylene Chloride	110	113	78-133	3	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: 1483716
Reported: 06/27/14 at 06:09 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	69 (2)	43 (2)	52-125	4	30				
n-Propylbenzene	112	108	74-134	3	30				
1,1,2,2-Tetrachloroethane	105	103	72-128	2	30				
Tetrachloroethene	109	108	80-128	2	30				
Toluene	113	110	80-125	2	30				
1,1,1-Trichloroethane	113	111	69-140	2	30				
1,1,2-Trichloroethane	111	110	71-141	1	30				
Trichloroethene	117	114	88-133	3	30				
Trichlorofluoromethane	107	105	63-163	2	30				
1,2,4-Trimethylbenzene	101	95	72-130	3	30				
1,3,5-Trimethylbenzene	107	103	65-132	3	30				
Vinyl Chloride	115	114	66-133	1	30				
Xylene (Total)	108	103	79-125	3	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: Y141772AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7508151	104	102	100	98
Blank	104	102	100	97
LCS	103	101	103	103
MS	102	101	102	103
MSD	102	102	102	103
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 #: 1483716 Sample #: 7508151

Client: Fairfax Petroleum
Project Name/#: 26140
Project Manager: Mark C. Steele
Sampler: Tim Bishop
Name of State where samples were collected: Virginia

Acct. #:
PWSID #:
P.O. #:
Quote #:

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 (8260)									Remarks	Temperature of samples upon receipt (if requested)
									H										
GFSTMW-1	6/20/14	1310	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
[signature]	6/24/14	1500	UPS	6/24/14	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

eurofins | Lancaster Laboratories Environmental

Explanation of Symbols and Abbreviations

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

RL	[illegible]	**BMQL**	[illegible]
N.D.	[illegible]	**MPN**	[illegible]
TNTC	[illegible]	**CP Units**	[illegible]
IU	[illegible]	**NTU**	[illegible]
umhos/cm	[illegible]	**ng**	[illegible]
C	[illegible]	**F**	[illegible]
meq	[illegible]	**lb.**	[illegible]
g	[illegible]	**kg**	[illegible]
µg	[illegible]	**mg**	[illegible]
mL	[illegible]	**L**	[illegible]
m3	[illegible]	**µL**	[illegible]
		pg/L	[illegible]

< [illegible] of [illegible]

> [illegible]

ppm [illegible]

ppb [illegible]

Dry weight basis [illegible]

Data Qualifiers:

C – [illegible]

J - [illegible]

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	[illegible]	**B**	[illegible]
B	[illegible]	**E**	[illegible]
C	[illegible]	**M**	[illegible]
D	[illegible]	**N**	[illegible]
E	[illegible]	**S**	[illegible]
N	[illegible]	**U**	[illegible]
P	[illegible]	**W**	[illegible]
U	[illegible]	*****	[illegible]
X,Y,Z	[illegible]	**+**	[illegible]

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

[illegible]

[illegible]

[illegible]

WARRANTY AND LIMITS OF LIABILITY [illegible]

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Kleinfelder
1 Speen Street
Framingham MA 01701

July 15, 2014

Project: Fairfax 26140

Submittal Date: 07/11/2014
Group Number: 1488375
PO Number: 51141-294572
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
MW-20D (75) Water	7530409
MW-20D (95) Water	7530410
MW-20D (110) Water	7530411
MW-20D (138) Water	7530412

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: Nathan Stevens
ELECTRONIC COPY TO	Kleinfelder	Attn: Paxton Wertz

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

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Lancaster Laboratories Environmental
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Analysis Report

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

LL Sample # WW 7530409
LL Group # 1488375
Account # 12152

Project Name: Fairfax 26140

Collected: 07/10/2014 12:50 by PW

Submitted: 07/11/2014 15:38
Reported: 07/15/2014 12:45

Kleinfelder
1 Speen Street
Framingham MA 01701

20D75

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	**28**	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	**3**	1	1
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**100**	1	1
10335	Toluene	108-88-3	< 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	BTEX + 5 Oxys	SW-846 8260B	1	W141951AA	07/14/2014 12:44	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W141951AA	07/14/2014 12:44	Sarah A Guill	1

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Analysis Report

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

LL Sample # WW 7530410
LL Group # 1488375
Account # 12152

Project Name: Fairfax 26140

Collected: 07/10/2014 12:55 by PW

Submitted: 07/11/2014 15:38
Reported: 07/15/2014 12:45

Kleinfelder
1 Speen Street
Framingham MA 01701

20D95

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	**21**	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	**73**	1	1
10335	Toluene	108-88-3	< 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	BTEX + 5 Oxys	SW-846 8260B	1	W141951AA	07/14/2014 13:07	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W141951AA	07/14/2014 13:07	Sarah A Guill	1

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Analysis Report

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

LL Sample # WW 7530411
LL Group # 1488375
Account # 12152

Project Name: Fairfax 26140

Collected: 07/10/2014 13:00 by PW

Submitted: 07/11/2014 15:38
Reported: 07/15/2014 12:45

Kleinfelder
1 Speen Street
Framingham MA 01701

20510

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	**43**	1	1
10335	Toluene	108-88-3	< 1	1	1
10335	Xylene (Total)	1330-20-7	< 1	1	1

A positive result for residual chlorine was detected in the sample container used for analysis.

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	W141951AA	07/14/2014 13:30	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W141951AA	07/14/2014 13:30	Sarah A Guill	1

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Analysis Report

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

LL Sample # WW 7530412
LL Group # 1488375
Account # 12152

Project Name: Fairfax 26140

Collected: 07/10/2014 13:05 by PW

Submitted: 07/11/2014 15:38
Reported: 07/15/2014 12:45

Kleinfelder
1 Speen Street
Framingham MA 01701

20D38

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	**55**	1	1
10335	Toluene	108-88-3	< 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	BTEX + 5 Oxys	SW-846 8260B	1	W141951AA	07/14/2014 13:54	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W141951AA	07/14/2014 13:54	Sarah A Guill	1

Quality Control Summary

Client Name: Kleinfelder Group Number: 1488375
Reported: 07/15/14 at 12:45 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: W141951AA	Sample number(s): 7530409-7530412							
t-Amyl methyl ether	< 1	1.	ug/l	89	89	75-120	1	30
Benzene	< 1	1.	ug/l	95	96	78-120	1	30
t-Butyl alcohol	< 20	20.	ug/l	93	97	75-120	4	30
Ethyl t-butyl ether	< 1	1.	ug/l	88	88	74-120	0	30
Ethylbenzene	< 1	1.	ug/l	89	90	79-120	1	30
di-Isopropyl ether	< 1	1.	ug/l	88	88	65-120	0	30
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	92	91	75-120	1	30
Toluene	< 1	1.	ug/l	92	94	80-120	2	30
Xylene (Total)	< 1	1.	ug/l	88	90	80-120	2	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: W141951AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7530409	101	99	97	96
7530410	103	100	96	96
7530411	104	103	97	96
7530412	103	99	97	96
Blank	99	100	98	98
LCS	102	104	99	100
LCSD	101	97	99	100
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 #: 1488375 Sample #: 75.30409-12

Client: Fairfax Petroleum
Acct. #:
Project Name/#: 26140
PWSID #:
Project Manager: Mark C. Steele
P.O. #: 51141 - 294572
Sampler: Paxton Wertz
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)	7/10/2014	1250	X			X		3	X										
MW-20D (95)	7/10/2014	1255	X			X		3	X										
MW-20D (110)	7/10/2014	1300	X			X		3	X										
MW-20D (138)	7/10/2014	1305	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: 7/15/14
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 triplecate volume)
Internal COC required? Yes No

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	7/10/14	1600	Sample Storage	7/10/14	1600
V. Willis	7/11/14	1106	[signature]	7-11-14	1106
			[signature]	7/11/14	1538

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	[illegible]	**BMQL**	[illegible]
N.D.	[illegible]	**MPN**	[illegible]
TNTC	[illegible]	**CP Units**	[illegible]
IU	[illegible]	**NTU**	[illegible]
umhos/cm	[illegible]	**ng**	[illegible]
C	[illegible]	**F**	[illegible]
meq	[illegible]	**lb.**	[illegible]
g	[illegible]	**kg**	[illegible]
µg	[illegible]	**mg**	[illegible]
mL	[illegible]	**L**	[illegible]
m3	[illegible]	**µL**	[illegible]
		pg/L	[illegible]

< [illegible] of [illegible]

> [illegible]

ppm [illegible]

ppb [illegible]

Dry weight basis [illegible]

Data Qualifiers:

C – [illegible]

J - [illegible]

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	[illegible]	**B**	[illegible]
B	[illegible]	**E**	[illegible]
C	[illegible]	**M**	[illegible]
D	[illegible]	**N**	[illegible]
E	[illegible]	**S**	[illegible]
N	[illegible]	**U**	[illegible]
P	[illegible]	**W**	[illegible]
U	[illegible]	*****	[illegible]
X,Y,Z	[illegible]	**+**	[illegible]

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

[illegible]

[illegible]

[illegible]

WARRANTY AND LIMITS OF LIABILITY [illegible]

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Kleinfelder
1 Speen Street
Framingham MA 01701

July 15, 2014

Project: Fairfax 26140

Submittal Date: 07/11/2014
Group Number: 1488373
PO Number: 51141-294572
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
GFSTPW-1 Grab Water	7530403
EB-1 Water	7530404

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: Nathan Stevens
ELECTRONIC COPY TO	Kleinfelder	Attn: Paxton Wertz

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

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Analysis Report

Sample Description: GFSTPW-1 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7530403
LL Group # 1488373
Account # 12152

Project Name: Fairfax 26140

Collected: 07/10/2014 08:05 by PW

Submitted: 07/11/2014 15:38
Reported: 07/15/2014 12:44

Kleinfelder
1 Speen Street
Framingham MA 01701

40PW1

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	< 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	< 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	< 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
10335	Vinyl Chloride	75-01-4	< 1	1	1

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Analysis Report

Sample Description: GFSTPW-1 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7530403
LL Group # 1488373
Account # 12152

Project Name: Fairfax 26140

Collected: 07/10/2014 08:05 by PW

Submitted: 07/11/2014 15:38
Reported: 07/15/2014 12:44

Kleinfelder
1 Speen Street
Framingham MA 01701

40PW1

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

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	W141951AA	07/14/2014 10:24	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W141951AA	07/14/2014 10:24	Sarah A Guill	1

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Analysis Report

Sample Description: EB-1 Water
Fairfax Petroleum 26140

LL Sample # WW 7530404
LL Group # 1488373
Account # 12152

Project Name: Fairfax 26140

Collected: 07/10/2014 08:50 by PW

Submitted: 07/11/2014 15:38
Reported: 07/15/2014 12:44

Kleinfelder
1 Speen Street
Framingham MA 01701

40EB1

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	< 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	< 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	< 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
10335	Vinyl Chloride	75-01-4	< 1	1	1

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Analysis Report

Sample Description: EB-1 Water
Fairfax Petroleum 26140

LL Sample # WW 7530404
LL Group # 1488373
Account # 12152

Project Name: Fairfax 26140

Collected: 07/10/2014 08:50 by PW

Submitted: 07/11/2014 15:38
Reported: 07/15/2014 12:44

Kleinfelder
1 Speen Street
Framingham MA 01701

40EB1

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

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	W141951AA	07/14/2014 10:47	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W141951AA	07/14/2014 10:47	Sarah A Guill	1

Quality Control Summary

Client Name: Kleinfelder Group Number: 1488373
Reported: 07/15/14 at 12:44 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: W141951AA	Sample number(s): 7530403-7530404							
Acetone	< 20	20.	ug/l	67	66	43-149	2	30
Acrolein	< 100	100.	ug/l	89	88	52-129	0	30
Acrylonitrile	< 20	20.	ug/l	68	67	62-120	1	30
t-Amyl methyl ether	< 1	1.	ug/l	89	89	75-120	1	30
Benzene	< 1	1.	ug/l	95	96	78-120	1	30
Bromodichloromethane	< 1	1.	ug/l	88	89	73-120	1	30
Bromoform	< 4	4.	ug/l	72	72	61-120	0	30
Bromomethane	< 1	1.	ug/l	98	98	58-120	0	30
2-Butanone	< 10	10.	ug/l	68	68	54-133	0	30
t-Butyl alcohol	< 20	20.	ug/l	93	97	75-120	4	30
n-Butylbenzene	< 5	5.	ug/l	95	101	68-120	6	30
sec-Butylbenzene	< 5	5.	ug/l	94	99	80-120	5	30
Carbon Tetrachloride	< 1	1.	ug/l	97	99	74-130	2	30
Chlorobenzene	< 1	1.	ug/l	93	95	80-120	2	30
Chloroethane	< 1	1.	ug/l	94	92	56-120	2	30
2-Chloroethyl Vinyl Ether	< 10	10.	ug/l	99	97	54-126	2	30
Chloroform	< 1	1.	ug/l	97	95	80-122	2	30
Chloromethane	< 1	1.	ug/l	94	94	63-120	0	30
Dibromochloromethane	< 1	1.	ug/l	86	85	72-120	1	30
1,2-Dichlorobenzene	< 5	5.	ug/l	88	91	80-120	3	30
1,3-Dichlorobenzene	< 5	5.	ug/l	88	88	80-120	1	30
1,4-Dichlorobenzene	< 5	5.	ug/l	87	90	80-120	3	30
1,1-Dichloroethane	< 1	1.	ug/l	93	93	80-120	0	30
1,2-Dichloroethane	< 1	1.	ug/l	101	99	65-135	2	30
1,1-Dichloroethene	< 1	1.	ug/l	94	97	76-124	3	30
cis-1,2-Dichloroethene	< 1	1.	ug/l	97	96	80-120	1	30
trans-1,2-Dichloroethene	< 1	1.	ug/l	98	100	80-120	2	30
1,2-Dichloropropane	< 1	1.	ug/l	90	92	80-120	3	30
cis-1,3-Dichloropropene	< 1	1.	ug/l	88	89	80-120	1	30
trans-1,3-Dichloropropene	< 1	1.	ug/l	87	90	76-120	3	30
Ethyl t-butyl ether	< 1	1.	ug/l	88	88	74-120	0	30
Ethylbenzene	< 1	1.	ug/l	89	90	79-120	1	30
di-Isopropyl ether	< 1	1.	ug/l	88	88	65-120	0	30
Isopropylbenzene	< 5	5.	ug/l	86	89	77-120	3	30
p-Isopropyltoluene	< 5	5.	ug/l	90	96	80-120	7	30
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	92	91	75-120	1	30
Methylene Chloride	< 3	3.	ug/l	95	92	80-120	2	30
Naphthalene	< 5	5.	ug/l	71	74	47-126	3	30
n-Propylbenzene	< 5	5.	ug/l	86	91	80-120	5	30
1,1,2,2-Tetrachloroethane	< 1	1.	ug/l	80	78	70-120	2	30
Tetrachloroethene	< 1	1.	ug/l	88	93	80-120	5	30
Toluene	< 1	1.	ug/l	92	94	80-120	2	30
1,1,1-Trichloroethane	< 1	1.	ug/l	88	88	66-126	0	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: 1488373
Reported: 07/15/14 at 12:44 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	87	89	80-120	3	30
Trichloroethene	< 1	1.	ug/l	97	98	80-120	2	30
Trichlorofluoromethane	< 1	1.	ug/l	103	105	65-130	1	30
1,2,4-Trimethylbenzene	< 5	5.	ug/l	87	91	74-120	4	30
1,3,5-Trimethylbenzene	< 5	5.	ug/l	87	90	74-120	3	30
Vinyl Chloride	< 1	1.	ug/l	94	95	63-120	1	30
Xylene (Total)	< 1	1.	ug/l	88	90	80-120	2	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: W141951AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7530403	101	99	98	98
7530404	101	100	97	97
Blank	99	100	98	98
LCS	102	104	99	100
LCSD	101	97	99	100
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 #: 148873 Sample #: 730403-04

Client:	Fairfax Petroleum	Acct. #:	
Project Name/#:	26140	PWSID #:	
Project Manager:	Mark C. Steele	P.O. #:	51141-294572
Sampler:	P. Wertz	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	Full list VOCs + OXY (8260) (H)								Remarks	Temperature of samples upon receipt (if requested)
GFSTPW-1	7/10/2014	0805	X			X			X									
EB-1	7/10/2014	0850	X			X			X									

Analyses Requested / Preservation Codes

Turnaround Time Requested (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed: 7/15/14
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]	7/10/14	1600	Sample Storage	7/10/14	1600
[signature]	7/11/14	11:06	[signature]	7/11/14	1103
			[signature]	7/11/14	1538

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	[illegible]	**BMQL**	[illegible]
N.D.	[illegible]	**MPN**	[illegible]
TNTC	[illegible]	**CP Units**	[illegible]
IU	[illegible]	**NTU**	[illegible]
umhos/cm	[illegible]	**ng**	[illegible]
C	[illegible]	**F**	[illegible]
meq	[illegible]	**lb.**	[illegible]
g	[illegible]	**kg**	[illegible]
µg	[illegible]	**mg**	[illegible]
mL	[illegible]	**L**	[illegible]
m3	[illegible]	**µL**	[illegible]
		pg/L	[illegible]

< [illegible] of [illegible]

> [illegible]

ppm [illegible]

ppb [illegible]

Dry weight basis [illegible]

Data Qualifiers:

C – [illegible]

J - [illegible]

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	[illegible]	**B**	[illegible]
B	[illegible]	**E**	[illegible]
C	[illegible]	**M**	[illegible]
D	[illegible]	**N**	[illegible]
E	[illegible]	**S**	[illegible]
N	[illegible]	**U**	[illegible]
P	[illegible]	**W**	[illegible]
U	[illegible]	*****	[illegible]
X,Y,Z	[illegible]	**+**	[illegible]

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

[illegible]

[illegible]

[illegible]

WARRANTY AND LIMITS OF LIABILITY [illegible]

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Kleinfelder
1 Speen Street
Framingham MA 01701

July 15, 2014

Project: Fairfax 26140

Submittal Date: 07/11/2014
Group Number: 1488374
PO Number: 51141-294572
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
805 Costellation (97') Water	7530405
805 Costellation (115') Water	7530406
805 Costellation (183') Water	7530407
EB-2 Water	7530408

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: Nathan Stevens
ELECTRONIC COPY TO	Kleinfelder	Attn: Paxton Wertz

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

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Analysis Report

Sample Description: 805 Costellation (97') Water
Fairfax Petroleum 26140

LL Sample # WW 7530405
LL Group # 1488374
Account # 12152

Project Name: Fairfax 26140

Collected: 07/10/2014 13:30 by PW

Submitted: 07/11/2014 15:38
Reported: 07/15/2014 12:44

Kleinfelder
1 Speen Street
Framingham MA 01701

14097

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	< 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	< 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	< 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
10335	Vinyl Chloride	75-01-4	< 1	1	1

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Analysis Report

Sample Description: 805 Costellation (97') Water
Fairfax Petroleum 26140

LL Sample # WW 7530405
LL Group # 1488374
Account # 12152

Project Name: Fairfax 26140

Collected: 07/10/2014 13:30 by PW

Submitted: 07/11/2014 15:38
Reported: 07/15/2014 12:44

Kleinfelder
1 Speen Street
Framingham MA 01701

14097

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

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	W141951AA	07/14/2014 11:11	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W141951AA	07/14/2014 11:11	Sarah A Guill	1

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Analysis Report

Sample Description: 805 Costellation (115') Water
Fairfax Petroleum 26140

LL Sample # WW 7530406
LL Group # 1488374
Account # 12152

Project Name: Fairfax 26140

Collected: 07/10/2014 12:50 by PW

Submitted: 07/11/2014 15:38
Reported: 07/15/2014 12:44

Kleinfelder
1 Speen Street
Framingham MA 01701

40115

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	< 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	< 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	< 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
10335	Vinyl Chloride	75-01-4	< 1	1	1

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Analysis Report

Sample Description: 805 Costellation (115') Water
Fairfax Petroleum 26140

LL Sample # WW 7530406
LL Group # 1488374
Account # 12152

Project Name: Fairfax 26140

Collected: 07/10/2014 12:50 by PW

Submitted: 07/11/2014 15:38
Reported: 07/15/2014 12:44

Kleinfelder
1 Speen Street
Framingham MA 01701

40115

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

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	W141951AA	07/14/2014 11:34	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W141951AA	07/14/2014 11:34	Sarah A Guill	1

Sample Description: 805 Costellation (183') Water
Fairfax Petroleum 26140

LL Sample # WW 7530407
LL Group # 1488374
Account # 12152

Project Name: Fairfax 26140

Collected: 07/10/2014 12:05 by PW

Submitted: 07/11/2014 15:38
Reported: 07/15/2014 12:44

Kleinfelder
1 Speen Street
Framingham MA 01701

40183

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	< 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	< 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	< 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
10335	Vinyl Chloride	75-01-4	< 1	1	1

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Analysis Report

Sample Description: 805 Costellation (183') Water
Fairfax Petroleum 26140

LL Sample # WW 7530407
LL Group # 1488374
Account # 12152

Project Name: Fairfax 26140

Collected: 07/10/2014 12:05 by PW

Submitted: 07/11/2014 15:38
Reported: 07/15/2014 12:44

Kleinfelder
1 Speen Street
Framingham MA 01701

40183

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

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	W141951AA	07/14/2014 11:57	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W141951AA	07/14/2014 11:57	Sarah A Guill	1

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Analysis Report

Sample Description: EB-2 Water
Fairfax Petroleum 26140

LL Sample # WW 7530408
LL Group # 1488374
Account # 12152

Project Name: Fairfax 26140

Collected: 07/10/2014 10:25 by PW

Submitted: 07/11/2014 15:38
Reported: 07/15/2014 12:44

Kleinfelder
1 Speen Street
Framingham MA 01701

40EB2

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	< 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	< 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	< 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
10335	Vinyl Chloride	75-01-4	< 1	1	1

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Analysis Report

Sample Description: EB-2 Water
Fairfax Petroleum 26140

LL Sample # WW 7530408
LL Group # 1488374
Account # 12152

Project Name: Fairfax 26140

Collected: 07/10/2014 10:25 by PW

Submitted: 07/11/2014 15:38
Reported: 07/15/2014 12:44

Kleinfelder
1 Speen Street
Framingham MA 01701

40EB2

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

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	W141951AA	07/14/2014 12:21	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W141951AA	07/14/2014 12:21	Sarah A Guill	1

Quality Control Summary

Client Name: Kleinfelder Group Number: 1488374
Reported: 07/15/14 at 12:44 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: W141951AA	Sample number(s): 7530405-7530408							
Acetone	< 20	20.	ug/l	67	66	43-149	2	30
Acrolein	< 100	100.	ug/l	89	88	52-129	0	30
Acrylonitrile	< 20	20.	ug/l	68	67	62-120	1	30
t-Amyl methyl ether	< 1	1.	ug/l	89	89	75-120	1	30
Benzene	< 1	1.	ug/l	95	96	78-120	1	30
Bromodichloromethane	< 1	1.	ug/l	88	89	73-120	1	30
Bromoform	< 4	4.	ug/l	72	72	61-120	0	30
Bromomethane	< 1	1.	ug/l	98	98	58-120	0	30
2-Butanone	< 10	10.	ug/l	68	68	54-133	0	30
t-Butyl alcohol	< 20	20.	ug/l	93	97	75-120	4	30
n-Butylbenzene	< 5	5.	ug/l	95	101	68-120	6	30
sec-Butylbenzene	< 5	5.	ug/l	94	99	80-120	5	30
Carbon Tetrachloride	< 1	1.	ug/l	97	99	74-130	2	30
Chlorobenzene	< 1	1.	ug/l	93	95	80-120	2	30
Chloroethane	< 1	1.	ug/l	94	92	56-120	2	30
2-Chloroethyl Vinyl Ether	< 10	10.	ug/l	99	97	54-126	2	30
Chloroform	< 1	1.	ug/l	97	95	80-122	2	30
Chloromethane	< 1	1.	ug/l	94	94	63-120	0	30
Dibromochloromethane	< 1	1.	ug/l	86	85	72-120	1	30
1,2-Dichlorobenzene	< 5	5.	ug/l	88	91	80-120	3	30
1,3-Dichlorobenzene	< 5	5.	ug/l	88	88	80-120	1	30
1,4-Dichlorobenzene	< 5	5.	ug/l	87	90	80-120	3	30
1,1-Dichloroethane	< 1	1.	ug/l	93	93	80-120	0	30
1,2-Dichloroethane	< 1	1.	ug/l	101	99	65-135	2	30
1,1-Dichloroethene	< 1	1.	ug/l	94	97	76-124	3	30
cis-1,2-Dichloroethene	< 1	1.	ug/l	97	96	80-120	1	30
trans-1,2-Dichloroethene	< 1	1.	ug/l	98	100	80-120	2	30
1,2-Dichloropropane	< 1	1.	ug/l	90	92	80-120	3	30
cis-1,3-Dichloropropene	< 1	1.	ug/l	88	89	80-120	1	30
trans-1,3-Dichloropropene	< 1	1.	ug/l	87	90	76-120	3	30
Ethyl t-butyl ether	< 1	1.	ug/l	88	88	74-120	0	30
Ethylbenzene	< 1	1.	ug/l	89	90	79-120	1	30
di-Isopropyl ether	< 1	1.	ug/l	88	88	65-120	0	30
Isopropylbenzene	< 5	5.	ug/l	86	89	77-120	3	30
p-Isopropyltoluene	< 5	5.	ug/l	90	96	80-120	7	30
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	92	91	75-120	1	30
Methylene Chloride	< 3	3.	ug/l	95	92	80-120	2	30
Naphthalene	< 5	5.	ug/l	71	74	47-126	3	30
n-Propylbenzene	< 5	5.	ug/l	86	91	80-120	5	30
1,1,2,2-Tetrachloroethane	< 1	1.	ug/l	80	78	70-120	2	30
Tetrachloroethene	< 1	1.	ug/l	88	93	80-120	5	30
Toluene	< 1	1.	ug/l	92	94	80-120	2	30
1,1,1-Trichloroethane	< 1	1.	ug/l	88	88	66-126	0	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: 1488374
Reported: 07/15/14 at 12:44 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	87	89	80-120	3	30
Trichloroethene	< 1	1.	ug/l	97	98	80-120	2	30
Trichlorofluoromethane	< 1	1.	ug/l	103	105	65-130	1	30
1,2,4-Trimethylbenzene	< 5	5.	ug/l	87	91	74-120	4	30
1,3,5-Trimethylbenzene	< 5	5.	ug/l	87	90	74-120	3	30
Vinyl Chloride	< 1	1.	ug/l	94	95	63-120	1	30
Xylene (Total)	< 1	1.	ug/l	88	90	80-120	2	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: W141951AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7530405	101	101	97	98
7530406	101	100	97	97
7530407	101	99	97	97
7530408	102	102	97	97
Blank	99	100	98	98
LCS	102	104	99	100
LCSD	101	97	99	100
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 #: 148832 Sample #: 75 50405-08

Client:	Fairfax Petroleum	Acct. #:	
Project Name/#:	26140	PWSID #:	
Project Manager:	Mark C. Steele	P.O. #:	51141-294572
Sampler:	P Wertz	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+ OXY (8260) (H)								Remarks	Temperature of samples upon receipt (if requested)
805 Constellation (97')	7/10/2014	1330				X			X									
805 Constellation (115')	7/10/2014	1250				X			X									
805 Constellation (183')	7/10/2014	1205				X			X									
EB-2	7/10/2014	1025				X			X									

Turnaround Time Requested (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed: 7/15/14
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]	7/10/14	1600	Sample Storage	7/10/14	1600
[signature]	7/11/14	1106	[signature]	7/11/14	1106
			[signature]	7/11/14	1538

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

eurofins | Lancaster Laboratories Environmental

Explanation of Symbols and Abbreviations

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

RL	[illegible]	**BMQL**	[illegible]
N.D.	[illegible]	**MPN**	[illegible]
TNTC	[illegible]	**CP Units**	[illegible]
IU	[illegible]	**NTU**	[illegible]
umhos/cm	[illegible]	**ng**	[illegible]
C	[illegible]	**F**	[illegible]
meq	[illegible]	**lb.**	[illegible]
g	[illegible]	**kg**	[illegible]
µg	[illegible]	**mg**	[illegible]
mL	[illegible]	**L**	[illegible]
m3	[illegible]	**µL**	[illegible]
		pg/L	[illegible]

< [illegible] of [illegible]

> [illegible]

ppm [illegible]

ppb [illegible]

Dry weight basis [illegible]

Data Qualifiers:

C – [illegible]

J - [illegible]

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	[illegible]	**B**	[illegible]
B	[illegible]	**E**	[illegible]
C	[illegible]	**M**	[illegible]
D	[illegible]	**N**	[illegible]
E	[illegible]	**S**	[illegible]
N	[illegible]	**U**	[illegible]
P	[illegible]	**W**	[illegible]
U	[illegible]	*****	[illegible]
X,Y,Z	[illegible]	**+**	[illegible]

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

[illegible]

[illegible]

[illegible]

WARRANTY AND LIMITS OF LIABILITY [illegible]

APPENDIX C

Lancaster Laboratories Analysis Reports – Temporary SVE System Effluent Samples

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Kleinfelder
1 Speen Street
Framingham MA 01701

June 23, 2014

Project: Fairfax 26140

Submittal Date: 06/18/2014
Group Number: 1482845
PO Number: 51141-296452
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
Blower Effluent Grab Air	7503278

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: 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: Blower Effluent Grab Air
Fairfax Petroleum 26140

LL Sample # AQ 7503278
LL Group # 1482845
Account # 12152

Project Name: Fairfax 26140

Collected: 06/17/2014 13:30 by PW

Submitted: 06/18/2014 14:30
Reported: 06/23/2014 09:34

Kleinfelder
1 Speen Street
Framingham MA 01701

CAT No.	Analysis Name	CAS Number	As Received Final Result	LOQ	As Received Final Result	LOQ	DF
Volatiles in Air	**EPA 18 mod/EPA 25 mod**		**mg/m3**	**mg/m3**	**ppm(v)**	**ppm(v)**	
07090	Benzene	71-43-2	< 3	3	< 1	1	1
07090	C1-C4 Hydrocarbons as propane	n.a.	< 18	18	< 10	10	1
07090	>C4-C10 Hydrocarbons hexane	n.a.	< 35	35	< 10	10	1
07090	Ethylbenzene	100-41-4	< 4	4	< 1	1	1
07090	MTBE	1634-04-4	< 4	4	< 1	1	1
07090	Toluene	108-88-3	< 4	4	< 1	1	1
07090	Xylene (total)	1330-20-7	< 9	9	< 2	2	1

LOQ = Limit of Quantitation

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
07090	BTEX/MTBE/C1-C4/>C4-C10	EPA 18 mod/EPA 25 mod	1	M1417030AA	06/19/2014 18:54	Florida A Cimino	1

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Environmental

Analysis Report

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

Quality Control Summary

Client Name: Kleinfelder
Group Number: 1482845
Reported: 06/23/14 at 09:34 AM

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: M1417030AA	Sample number(s): 7503278							
Benzene	< 3	3.	mg/m3	84	83	75-111	1	30
C1-C4 Hydrocarbons as propane	< 18	18.	mg/m3					
>C4-C10 Hydrocarbons hexane	< 35	35.	mg/m3					
Ethylbenzene	< 4	4.	mg/m3	82	89	76-135	9	30
MTBE	< 4	4.	mg/m3					
Toluene	< 4	4.	mg/m3	93	99	66-123	7	30
Xylene (total)	< 9	9.	mg/m3	85	92	70-134	8	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.

Lancaster Laboratories

Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 12152
Group #: _____ Sample #: _____
1482845 7503278

Client: Fairfax Petroleum
Acct. #:
Project Name/#: 26140
PWSID #:
Project Manager: Mark C. Steele
P.O. #: 51141-296452
Sampler: Paxton Wertz
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	BTEX, MTBE by 18/25	TPH C1-C4 by 18/25	TPH >C4-C10 by 18/25							Remarks	Temperature of samples upon receipt (if requested)
Blower Effluent	6/17/14	1330	X				X	2	X	X	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
[signature]	6/17/14	1600	Sample Storage	6/17/14	1600

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

4886.01

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Explanation of Symbols and Abbreviations

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

RL	[illegible]	**BMQL**	[illegible]
N.D.	[illegible]	**MPN**	[illegible]
TNTC	[illegible]	**CP Units**	[illegible]
IU	[illegible]	**NTU**	[illegible]
umhos/cm	[illegible]	**ng**	[illegible]
C	[illegible]	**F**	[illegible]
meq	[illegible]	**lb.**	[illegible]
g	[illegible]	**kg**	[illegible]
µg	[illegible]	**mg**	[illegible]
mL	[illegible]	**L**	[illegible]
m3	[illegible]	**µL**	[illegible]
		pg/L	[illegible]

< [illegible] of [illegible]

> [illegible]

ppm [illegible]

ppb [illegible]

Dry weight basis [illegible]

Data Qualifiers:

C – [illegible]

J - [illegible]

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	[illegible]	**B**	[illegible]
B	[illegible]	**E**	[illegible]
C	[illegible]	**M**	[illegible]
D	[illegible]	**N**	[illegible]
E	[illegible]	**S**	[illegible]
N	[illegible]	**U**	[illegible]
P	[illegible]	**W**	[illegible]
U	[illegible]	*****	[illegible]
X,Y,Z	[illegible]	**+**	[illegible]

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

[illegible]

[illegible]

WARRANTY AND LIMITS OF LIABILITY [illegible]

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Kleinfelder
1 Speen Street
Framingham MA 01701

June 27, 2014

Project: Fairfax 26140

Submittal Date: 06/24/2014
Group Number: 1484223
PO Number: 51141-296452
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
Blower Effluent Grab Air	7510253

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: 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: Blower Effluent Grab Air
Fairfax Petroleum 26140

LL Sample # AQ 7510253
LL Group # 1484223
Account # 12152

Project Name: Fairfax 26140

Collected: 06/24/2014 10:00 by JW

Submitted: 06/24/2014 17:55
Reported: 06/27/2014 15:46

Kleinfelder
1 Speen Street
Framingham MA 01701

CAT No.	Analysis Name	CAS Number	As Received Final Result	LOQ	As Received Final Result	LOQ	DF
Volatiles in Air	**EPA 18 mod/EPA 25 mod**		**mg/m3**	**mg/m3**	**ppm(v)**	**ppm(v)**	
07090	Benzene	71-43-2	< 3	3	< 1	1	1
07090	C1-C4 Hydrocarbons as propane	n.a.	< 18	18	< 10	10	1
07090	>C4-C10 Hydrocarbons hexane	n.a.	< 35	35	< 10	10	1
07090	Ethylbenzene	100-41-4	< 4	4	< 1	1	1
07090	MTBE	1634-04-4	< 4	4	< 1	1	1
07090	Toluene	108-88-3	< 4	4	< 1	1	1
07090	Xylene (total)	1330-20-7	< 9	9	< 2	2	1

LOQ = Limit of Quantitation

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
07090	BTEX/MTBE/C1-C4/>C4-C10	EPA 18 mod/EPA 25 mod	1	M1417530AA	06/25/2014 02:27	Florida A Cimino	1

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Environmental

Analysis Report

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Quality Control Summary

Client Name: Kleinfelder
Group Number: 1484223
Reported: 06/27/14 at 03:46 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: M1417530AA	Sample number(s): 7510253							
Benzene	< 3	3.	mg/m3	106	106	75-111	0	30
C1-C4 Hydrocarbons as propane	< 18	18.	mg/m3					
>C4-C10 Hydrocarbons hexane	< 35	35.	mg/m3					
Ethylbenzene	< 4	4.	mg/m3	108	107	76-135	1	30
MTBE	< 4	4.	mg/m3					
Toluene	< 4	4.	mg/m3	121	119	66-123	2	30
Xylene (total)	< 9	9.	mg/m3	112	111	70-134	0	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.

Lancaster Laboratories

Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 12152 (3)
Group #: 1484223 Sample #: 7510253

Client:	Fairfax Petroleum	Acct. #:	
Project Name/#:	26140	PWSID #:	
Project Manager:	Mark C. Steele	P.O. #:	51141-296452
Sampler:	Jessica Weber	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	BTEX, MTBE (by EPA 18 mod/EPA 25 mod)	TPH-C1-C4 (by EPA 18 mod/ EOA 25 mod)	TPH - C5-C10 (by EPA 18 mod/EPA 25 mod)							Remarks	Temperature of samples upon receipt (if requested)
Blower Effluent	6/24/14	1000	✓				✓	2	X	X	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
[signature]	6/24/14	1200	[signature]	6/24/14	14:00
[signature]	6/24/14	17:55			
			[signature]	6/24/14	1755

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	[illegible]	**BMQL**	[illegible]
N.D.	[illegible]	**MPN**	[illegible]
TNTC	[illegible]	**CP Units**	[illegible]
IU	[illegible]	**NTU**	[illegible]
umhos/cm	[illegible]	**ng**	[illegible]
C	[illegible]	**F**	[illegible]
meq	[illegible]	**lb.**	[illegible]
g	[illegible]	**kg**	[illegible]
µg	[illegible]	**mg**	[illegible]
mL	[illegible]	**L**	[illegible]
m3	[illegible]	**µL**	[illegible]
		pg/L	[illegible]

< [illegible] of [illegible]

> [illegible]

ppm [illegible]

ppb [illegible]

Dry weight basis [illegible]

Data Qualifiers:

C – [illegible]

J - [illegible]

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	[illegible]	**B**	[illegible]
B	[illegible]	**E**	[illegible]
C	[illegible]	**M**	[illegible]
D	[illegible]	**N**	[illegible]
E	[illegible]	**S**	[illegible]
N	[illegible]	**U**	[illegible]
P	[illegible]	**W**	[illegible]
U	[illegible]	*****	[illegible]
X,Y,Z	[illegible]	**+**	[illegible]

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

[illegible]

[illegible]

WARRANTY AND LIMITS OF LIABILITY [illegible]

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Kleinfelder
1 Speen Street
Framingham MA 01701

July 15, 2014

Project: Fairfax 26140

Submittal Date: 07/11/2014
Group Number: 1488383
PO Number: 51141-296452
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
Blower Effluent Grab Air	7530427

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: Paxton Wertz
ELECTRONIC COPY TO	Kleinfelder	Attn: Nathan Stevens

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

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Analysis Report

Sample Description: Blower Effluent Grab Air
Fairfax Petroleum 26140

LL Sample # AQ 7530427
LL Group # 1488383
Account # 12152

Project Name: Fairfax 26140

Collected: 07/10/2014 11:30 by PW

Submitted: 07/11/2014 15:38
Reported: 07/15/2014 10:23

Kleinfelder
1 Speen Street
Framingham MA 01701

CAT No.	Analysis Name	CAS Number	As Received Final Result	LOQ	As Received Final Result	LOQ	DF
Volatiles in Air	**EPA 18 mod/EPA 25 mod**		mg/m3	mg/m3	ppm(v)	ppm(v)	
07090	Benzene	71-43-2	< 3	3	< 1	1	1
07090	C1-C4 Hydrocarbons as propane	n.a.	< 18	18	< 10	10	1
07090	>C4-C10 Hydrocarbons hexane	n.a.	< 35	35	< 10	10	1
07090	Ethylbenzene	100-41-4	< 4	4	< 1	1	1
07090	MTBE	1634-04-4	< 4	4	< 1	1	1
07090	Toluene	108-88-3	< 4	4	< 1	1	1
07090	Xylene (total)	1330-20-7	< 9	9	< 2	2	1

LOQ = Limit of Quantitation

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
07090	BTEX/MTBE/C1-C4/>C4-C10	EPA 18 mod/EPA 25 mod	1	M1419430AA	07/13/2014 11:12	Jeffrey B Smith	1

Quality Control Summary

Client Name: Kleinfelder Group Number: 1488383
Reported: 07/15/14 at 10:23 AM

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: M1419430AA	Sample number(s): 7530427							
Benzene	< 3	3.	mg/m3	105	101	75-111	4	30
C1-C4 Hydrocarbons as propane	< 18	18.	mg/m3					
>C4-C10 Hydrocarbons hexane	< 35	35.	mg/m3					
Ethylbenzene	< 4	4.	mg/m3	105	105	76-135	0	30
MTBE	< 4	4.	mg/m3					
Toluene	< 4	4.	mg/m3	118	115	66-123	3	30
Xylene (total)	< 9	9.	mg/m3	112	109	70-134	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.

Lancaster Laboratories

Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 12152
Group #: _____ Sample #: _____
1488383 7530427

Client: Fairfax Petroleum | Acct. #:
Project Name/#: 26140 | PWSID #:
Project Manager: Mark C. Steele | P.O. #: 51141-296452
Sampler: P Wertz | 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	BTEX, MTBE (by EPA 18 mod/EPA 25 mod)	TPH-C1-C4 (by EPA 18 mod/ EOA 25 mod)	TPH - C5-C10 (by EPA 18 mod/EPA 25 mod)							Remarks	Temperature of samples upon receipt (if requested)
Blower Effluent	7/10/2014	1130	X				X		X	X	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
[signature]	7/10/14	1600	Sample Storage	7/10/14	1600
V. Weller	7/11/14	11:06	[signature]	7-11-14	1106

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

7/11/14 1538

eurofins | Lancaster Laboratories Environmental

Explanation of Symbols and Abbreviations

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

RL	[illegible]	**BMQL**	[illegible]
N.D.	[illegible]	**MPN**	[illegible]
TNTC	[illegible]	**CP Units**	[illegible]
IU	[illegible]	**NTU**	[illegible]
umhos/cm	[illegible]	**ng**	[illegible]
C	[illegible]	**F**	[illegible]
meq	[illegible]	**lb.**	[illegible]
g	[illegible]	**kg**	[illegible]
µg	[illegible]	**mg**	[illegible]
mL	[illegible]	**L**	[illegible]
m3	[illegible]	**µL**	[illegible]
		pg/L	[illegible]

< [illegible] of [illegible]

> [illegible]

ppm [illegible]

ppb [illegible]

Dry weight basis [illegible]

Data Qualifiers:

C – [illegible]

J - [illegible]

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	[illegible]	**B**	[illegible]
B	[illegible]	**E**	[illegible]
C	[illegible]	**M**	[illegible]
D	[illegible]	**N**	[illegible]
E	[illegible]	**S**	[illegible]
N	[illegible]	**U**	[illegible]
P	[illegible]	**W**	[illegible]
U	[illegible]	*****	[illegible]
X,Y,Z	[illegible]	**+**	[illegible]

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

[illegible]

[illegible]

[illegible]

WARRANTY AND LIMITS OF LIABILITY [illegible]