



FEDEX: 770691392110

July 25, 2014

Mr. Christopher Ralston
Maryland Department of the Environment
Remediation Division, Oil Control Program
1800 Washington Blvd., Suite 620
Baltimore, Maryland 21230

**RE: Well Installation Report for MW-73C and MW-186D
Inactive Exxon Facility #28077
14258 Jarrettsville Pike
Phoenix, Baltimore County, Maryland
Facility I.D. No. 12342
Case No. 2006-0303-BA2**

Dear Mr. Ralston:

This letter report is submitted by Kleinfelder on behalf of Exxon Mobil Environmental Services Company (ExxonMobil) to summarize monitoring well installation activities associated with MW-73C and MW-186D. The monitoring wells were installed as proposed in the *Additional Site Characterization Work Plan*¹ ("Work Plan"), as approved in the Maryland Department of the Environment's (MDE) February 20, 2013 *Work Plan Approval*.² This report is submitted in response to MDE's January 16, 2014 email³ requesting a report of results, including boring logs, geophysical logs, laboratory data (table summary and lab reports), water level data, and a recommended vertical zone sampling plan.

¹ Kleinfelder, June 21, 2012, Additional Site Characterization Work Plan, Inactive Exxon Facility #28077, 14258 Jarrettsville Pike, Phoenix, Maryland, MDE Case No. 2006-0303-BA2

² MDE, February 20, 2013, Work Plan Approval for Additional Site Characterization Work Plan, Case Number 2006-0303-BA2 Former Exxon R/S No. 2-8077 14258 Jarrettsville Pike, Phoenix, Baltimore County, Maryland

The objectives of the Work Plan were as follows:

1. Establish four additional 'D'-zone monitoring points (greater than 300 feet below ground surface [ft-bgs]) in the near northeast area ('Inner Array') to supplement existing vertical delineation;
2. Encompass the near northeast area with additional monitoring points ('Outer Array') to provide a sentinel array corresponding to the 'D'-zone (greater than 300 ft-bgs);
3. Provide supplemental characterization data beneath, and along strike and down dip of the original release area on the former service station property and within relatively close proximity ('Service Station / Intersection Area').

Monitoring Well Installation

As proposed in the Work Plan and previously reported to MDE in the *Fourth Quarter 2013 Groundwater Monitoring and Remedial Status Report*,⁴ well installation and geophysical surveys have been completed for the Additional 'C-Series' Well, MW-73C and the 'Outer Array' Well, MW-186D.

The well locations were cleared via airknife to a depth of eight feet, after which the borehole was advanced with an air rotary drill rig. Well construction details are summarized in the table below:

Well ID	Casing / Borehole Diameter (inches)	Dates Installed	Final Bottom Depth (fbg)	Steel Casing (feet)	Open Borehole (fbg)
MW-73C	6"	11/16/2013 - 11/23/2013	300	0-125	125-300
MW-186D	6"	12/6/2013 – 12/14/2013	425	0-70	70-425

³ E. Jackson (MDE) email to M. Schaaf (Kleinfelder), January 16, 2014 (no subject line)

⁴ Kleinfelder, February 15, 2013, Fourth Quarter 2013 Groundwater Monitoring and Remedial Status Report, Inactive Exxon Facility #28077, 14258 Jarrettsville Pike, Phoenix, Maryland, Case Number 2006-0303-BA2, Facility I.D. No. 12342

Per the August 21, 2012 email from Kleinfelder to MDE describing the sequence of field work in the Work Plan, rubber “K-packers” were installed at 250’ and 300’ bgs for MW-73C and MW-186D respectively, to temporarily segregate the upper and lower portions of the borehole.

The final locations for the above-listed wells are identified on **Figure 1**. The following data for each of the completed wells is included in this letter report:

- Analytical and gauging results tables (**Tables 1 & 2**);
- Laboratory analytical reports (**Appendix A**);
- Boring and well construction logs (**Appendix B**);
- Geophysical logs (**Appendix C**);
- State Well Completion Reports (**Appendix D**);
- Proposed HydraSleeve™ sampling depths (**Table 3**).

Groundwater Sampling

Following the completion and purging of the wells a rubber “K-packer” was installed to temporarily segregate the upper and lower portions of the newly installed monitoring wells. Grab samples were collected from above and below the packer and submitted to the laboratory for analysis of full list VOCs according to U.S. EPA SW-846 Method 8260B. The temporary packers were removed from all wells prior to downhole geophysics being conducted (discussed below). Following borehole geophysics, the “K-packer” was reinstalled. A summary of analytical results can be found in **Table 2** and laboratory analytical reports are presented in **Appendix A**.

Groundwater Gauging

The depth to groundwater was gauged with an electronic interface probe (EIP) during and after well installation to monitor the rate of groundwater recharge. These wells were gauged the morning after casing was set and grouted into place. Wells were also gauged if drilling was paused overnight before reaching the terminal depth. After installation, wells were initially gauged daily and then less frequently based on the rate of groundwater recovery. Gauging results for the newly installed wells are presented in **Table 1**.

Geophysical Surveys

The newly installed monitoring wells were logged using the following borehole geophysical methods: optical televiwer, acoustic televiwer, 3-arm caliper, fluid temperature, fluid conductivity, natural gamma, and heat pulse flowmeter. Borehole geophysical results are presented in **Appendix C**.

Proposed HydraSleeve™ Sampling Intervals


Based on the analytical results obtained to date and the corresponding geophysical logs (**Appendix C**), proposed intervals for discrete-depth HydraSleeve™ sampling are presented in **Table 3**. Upon MDE approval of these intervals, HydraSleeve™ sampling will be conducted monthly for a period of three months per the Work Plan. Based on the analytical results obtained during this period, modification to the sampling frequency may be proposed for MDE review and approval.

To conduct HydraSleeve™ sampling as described above, the “K-packers” will be removed from the wells. The analytical data summarized in **Table 2** indicate MTBE concentrations in MW-186D are non-detect both above and below the packer. In MW-73C, MTBE concentrations are similar above and below the packer (2,410 ug/L and 2,270 ug/L respectively in the samples collected on 5/13/2014). Based on these analytical results, Kleinfelder requests MDE approval to remove the packers in both wells.

Please contact the undersigned with any questions or requests for additional information.

Sincerely,

KLEINFELDER



Jeffrey R. Hale, P.G.
Principal Hydrogeologist



Mark J. Schaaf, C.P.G.
Project Director

TABLES

- 1 2014 Deep Drilling Program - Groundwater Gauging Data Through May 30, 2014
- 2 2013/2014 Monitoring Well Installation – Analytical Data Summary
- 3 Borehole Geophysical Analysis and Proposed HydraSleeve™ Sample Depths

FIGURE

- 1 New Well Location Map

APPENDICES

- A Laboratory Analytical Reports
- B Boring and Well Construction Logs
- C Geophysical Logs
- D State Well Completion Reports

cc: Mr. John J. Hoban – ExxonMobil (project file)
Ms. Ellen Jackson – Maryland Department of the Environment
Mr. Andrew Miller – Maryland Department of the Environment
Mr. Greg Martin – Roux Associates, Inc.
Carlos Bollar, Esquire – Archer & Greiner, P.C.
Theodore M. Flerlage, Esquire – Law Offices of Peter Angelos

TABLES

Table 1
2014 Deep Drilling Program
Groundwater Gauging Data Through May 30, 2014

Inactive Exxon Facility #28077
14258 Jarrettsville Pike
Phoenix, Maryland

Well	Date	Depth to Groundwater (ft-toc)	Depth to Water Above Packer (ft-toc)	Depth to Water Below Packer (ft-toc)	Comments
MW-73C	11/23/2013	-	Dry	300.4	Well installed to 300.5 ft-bgs and purged on 11/23/2013. Packer installed at 250 ft-bgs. Well gauged immediately after packer installation. Water level rising.
	11/24/2013	-	246.85	299.32	Well purged on 11/23/2013. Packer at 250 ft-bgs. Water level rising.
	11/25/2013	-	230.08	297.01	Well purged on 11/23/2013. Packer at 250 ft-bgs. Water level rising.
	12/3/2013	-	178.46	248.52	Well purged on 11/23/2013. Packer at 250 ft-bgs. Water level rising.
	12/9/2013	-	141.62	164.13	Well purged on 11/23/2013. Packer at 250 ft-bgs. Water level rising.
	12/16/2013	-	110.64	123.51	Well purged on 11/23/2013. Packer at 250 ft-bgs. Water level rising.
	12/27/2013	-	93.52	102.5	Well purged on 11/23/2013. Packer at 250 ft-bgs. Water level rising.
	12/31/2013	-	91.88	96.11	Well purged on 11/23/2013. Packer at 250 ft-bgs. Water level rising.
	1/13/2014	-	87.72	88.83	Well purged on 11/23/2013. Packer at 250 ft-bgs. Water level rising.
	1/30/2014	-	85.44	86.35	Well purged on 11/23/2013. Packer at 250 ft-bgs. Water level rising.
	2/14/2014	-	219.88	223.17	Packer removed from well on 1/31/2013 for borehole geophysical logging. Well purged and packer reinstalled at 250 ft-bgs on 2/7/2014. Water level rising.
	3/12/2014	-	93.71	95.30	Well purged on 2/7/2014. Packer at 250 ft-bgs. Water level rising.
	4/8/2014	-	83.41	85.50	Well purged on 2/7/2014. Packer at 250 ft-bgs. Water level rising.
	5/13/2014	-	88.77	88.79	Well purged on 2/7/2014. Packer at 250 ft-bgs.

Table 1
2014 Deep Drilling Program
Groundwater Gauging Data Through May 30, 2014

Inactive Exxon Facility #28077
14258 Jarrettsville Pike
Phoenix, Maryland

Well	Date	Depth to Groundwater (ft-toc)	Depth to Water Above Packer (ft-toc)	Depth to Water Below Packer (ft-toc)	Comments
MW-186D	12/15/2013	-	130.88	130.31	Well installed to 428 ft-bgs and purged on 12/15/2013. Packer installed at 300 ft-bgs. Well gauged after packer installation. Water level rising.
	12/16/2013	-	95.32	95.35	Well purged on 12/15/2013. Packer at 300 ft-bgs. Water level rising.
	12/17/2013	-	88.24	88.29	Well purged on 12/15/2013. Packer at 300 ft-bgs. Water level rising.
	12/18/2013	-	83.69	83.72	Well purged on 12/15/2013. Packer at 300 ft-bgs. Water level rising.
	12/23/2013	-	72.81	72.83	Well purged on 12/15/2013. Packer at 300 ft-bgs. Water level rising.
	12/24/2013	-	71.73	71.78	Well purged on 12/15/2013. Packer at 300 ft-bgs. Water level rising.
	12/27/2013	-	68.17	68.18	Well purged on 12/15/2013. Packer at 300 ft-bgs. Water level rising.
	12/31/2013	-	64.98	64.99	Well purged on 12/15/2013. Packer at 300 ft-bgs. Water level rising.
	1/13/2014	-	60.59	60.37	Well purged on 12/15/2013. Packer at 300 ft-bgs. Water level rising.
	1/30/2014	-	54.26	48.77	Well purged on 12/15/2013. Packer at 300 ft-bgs. Water level rising.
	2/24/2014	-	53.76	53.37	Packer removed from well on 1/31/2013 for borehole geophysical logging. Well purged and packer reinstalled at 300 ft-bgs on 2/17/2014. Water level rising.
	3/12/2014	-	50.94	50.88	Well purged on 2/17/2014. Packer at 300 ft-bgs. Water level rising.
	4/8/2014	-	48.10	48.44	Well purged on 2/17/2014. Packer at 300 ft-bgs. Water level rising.
5/13/2014	-	45.51	45.46	Well purged on 2/17/2014. Packer at 300 ft-bgs. Water level rising.	

NOTES:

EIP = electronic interface probe
ft-toc = feet below top of casing
ft-bgs = feet below ground surface

Table 2
2013 / 2014 Monitoring Well Installation¹ - Analytical Data Summary
 Inactive Exxon Facility #28077
 14258 Jarrettsville Pike
 Phoenix, Maryland

Sample Name	Final Total Depth (feet)	Open Borehole Interval (ft-toc)	Sample Date	Depth to Water (ft-toc)	Sample Method	Analyzed For	Sample Details	MTBE (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	Date Geophysics Completed	Packer (Yes/No)
MW-73C(DTW125-A)	NA	NA	11/17/2013	115.00	Grab ²	Full	Well install and well development not complete. Grab sample collected from inside ungrouted casing (bottom of open borehole at ~125 fbg).	ND	ND	ND	ND	ND		No
MW-73C(DTW125-B)	NA	NA	11/17/2013	60.00	Grab ²	Full	Well install and well development not complete. Grab sample collected from outside ungrouted casing (bottom of open borehole at ~125 fbg).	ND	ND	ND	ND	ND		No
MW-73C (AP)	300	125-300	11/25/2013	230.08	Grab ²	Full	Well installation completed on 11/23/2013. Temporary packer installed at ~250 fbg on 11/23/2013. Grab sample collected from 125-250 ft zone above packer.	5,070	31.1	124	4.5 J	7.3 J	2/4/2014	Yes
MW-73C (BP)			11/25/2013	297.01	Grab ²	Full	Well installation completed on 11/23/2013. Temporary packer installed at ~250 fbg on 11/23/2013. Grab sample collected from 250-300 ft zone below packer.	2,330	ND	10.1	ND	ND		Yes
MW-73C (AP)			12/9/2013	141.62	Grab ²	Target	Grab sample collected from 125-250 ft zone above packer.	5,430	24.1	ND	ND	ND		Yes
MW-73C (BP)			12/9/2013	164.13	Grab ²	Target	Grab sample collected from 250-300 ft zone below packer.	4,890	100	47.9	4.8 J	5.6 J		Yes
MW-73C (AP)			1/13/2014	87.72	Grab ²	Target	Grab sample collected from 125-250 ft zone above packer.	46.7 ³	0.85 J	53.9	0.32 J	0.44 J		Yes
MW-73C (BP)			1/13/2014	88.83	Grab ²	Target	Grab sample collected from 250-300 ft zone below packer.	4,210	17.1 J	ND	ND	ND		Yes
MW-73C (AP)			1/30/2014	85.44	Grab ²	Target	Grab sample collected from 125-250 ft zone above packer.	5,600	ND	ND	ND	ND		Yes
MW-73C (BP)			1/30/2014	86.35	Grab ²	Target	Grab sample collected from 250-300 ft zone below packer.	4,570	ND	ND	ND	ND		Yes
MW-73C (AP)			2/14/2014	219.88	Grab ²	Target	Grab sample collected from 125-250 ft zone above packer.	2,810	21.5	20.2	4.9	10.1		Yes
MW-73C (BP)			2/14/2014	223.17	Grab ²	Target	Grab sample collected from 250-300 ft zone below packer.	1,930	5.5	6.7	1.6	3.0		Yes
MW-73C (AP)			3/12/2014	93.71	Grab ²	Target	Grab sample collected from 125-250 ft zone above packer.	3,700	ND	ND	ND	ND		Yes
MW-73C (BP)			3/12/2014	95.30	Grab ²	Target	Grab sample collected from 250-300 ft zone below packer.	2,140	ND	ND	1.1 J	1.8 J		Yes
MW-73C (AP)			4/8/2014	83.41	Grab ²	Target	Grab sample collected from 125-250 ft zone above packer.	3,350	ND	ND	ND	ND		Yes
MW-73C (BP)			4/8/2014	85.50	Grab ²	Target	Grab sample collected from 250-300 ft zone below packer.	2,210	ND	ND	ND	ND		Yes
MW-73C (AP)			5/13/2014	88.77	Grab ²	Target	Grab sample collected from 125-250 ft zone above packer.	2,410	ND	ND	ND	ND		Yes
MW-73C (BP)			5/13/2014	88.79	Grab ²	Target	Grab sample collected from 250-300 ft zone below packer.	2,270	ND	ND	ND	ND		Yes

Table 2
2013 / 2014 Monitoring Well Installation¹ - Analytical Data Summary
 Inactive Exxon Facility #28077
 14258 Jarrettsville Pike
 Phoenix, Maryland

Sample Name	Final Total Depth (feet)	Open Borehole Interval (ft-toc)	Sample Date	Depth to Water (ft-toc)	Sample Method	Analyzed For	Sample Details	MTBE (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	Date Geophysics Completed	Packer (Yes/No)
MW-186D(DTB70-I)	NA	NA	12/8/2013	37.00	Grab ²	Full	Well install and well development not complete. Grab sample collected from inside ungrouted casing (bottom of open borehole at ~70 fbg).	ND	ND	ND	ND	ND		No
MW-186D(DTB70-O)	NA	NA	12/8/2013	35.50	Grab ²	Full	Well install and well development not complete. Grab sample collected from outside ungrouted casing (bottom of open borehole at ~70 fbg).	ND	ND	ND	ND	ND		No
MW-186D(DTB70-I)	NA	NA	12/14/2013	37.65	Grab ²	Full	Well install and well development not complete. Grab sample collected from inside grouted casing (bottom of open borehole at ~70 fbg).	ND	ND	ND	ND	ND		No
MW-186D (AP)	428	70-428	12/15/2013	130.88	Grab ²	Full	Well installation completed on 12/15/2013. Temporary packer installed at ~300 fbg on 12/15/2013. Grab sample collected from 70-300 ft zone above packer.	ND	ND	ND	ND	ND	2/7/2014	Yes
MW-186D (BP)			12/15/2013	130.31	Grab ²	Full	Well installation completed on 12/15/2013. Temporary packer installed at ~300 fbg on 12/15/2013. Grab sample collected from 300-428 ft zone below packer.	ND	ND	ND	ND	ND		Yes
MW-186D (AP)			1/13/2014	60.59	Grab ²	Target	Grab sample collected from 70-300 ft zone above packer.	ND	ND	ND	ND	ND		Yes
MW-186D (BP)			1/13/2014	60.37	Grab ²	Target	Grab sample collected from 300-428 ft zone below packer.	ND	ND	ND	ND	ND		Yes
MW-186D (AP)			1/30/2014	54.26	Grab ²	Target	Grab sample collected from 70-300 ft zone above packer.	ND	ND	ND	ND	ND		Yes
MW-186D (BP)			1/30/2014	48.77	Grab ²	Target	Grab sample collected from 300-428 ft zone below packer.	ND	ND	ND	ND	ND		Yes
MW-186D (AP)			2/24/2014	53.76	Grab ²	Target	Grab sample collected from 70-300 ft zone above packer.	ND	ND	0.95 J	ND	ND		Yes
MW-186D (BP)			2/24/2014	53.37	Grab ²	Target	Grab sample collected from 300-428 ft zone below packer.	ND	ND	ND	ND	ND		Yes
MW-186D (AP)			3/12/2014	50.94	Grab ²	Target	Grab sample collected from 70-300 ft zone above packer.	ND	ND	ND	ND	ND		Yes
MW-186D (BP)			3/12/2014	50.88	Grab ²	Target	Grab sample collected from 300-428 ft zone below packer.	ND	ND	ND	ND	ND		Yes
MW-186D (AP)			4/8/2014	48.10	Grab ²	Target	Grab sample collected from 70-300 ft zone above packer.	ND	0.28 J	ND	ND	ND		Yes
MW-186D (BP)			4/8/2014	48.44	Grab ²	Target	Grab sample collected from 300-428 ft zone below packer.	ND	ND	ND	ND	ND		Yes
MW-186D (AP)			5/13/2014	45.51	Grab ²	Target	Grab sample collected from 70-300 ft zone above packer.	ND	1.0	ND	ND	ND		Yes
MW-186D (BP)			5/13/2014	45.46	Grab ²	Target	Grab sample collected from 300-428 ft zone below packer.	ND	ND	ND	ND	ND		Yes

NOTES:
 AP = Above Packer
 BP = Below Packer
 DTB = Depth to Bottom
 DTW = Depth to Water
 ft-toc = feet below top of casing
 fbg = feet below grade
 J = Indicates estimated value
 MTBE = Methyl tert-butyl ether
 NR = Not Recorded
 NA = Not Applicable
 ND = Non-Detect
¹ = According to MDE approved "Additional Site Characterization Work Plan" (6/21/2012)
² = Grab sampled collected from depth of groundwater at the time of sampling using a disposable polyethylene bailer
³ = MTBE data for MW-73C(AP) is an anomalous result

Table 3
Borehole Geophysical Analysis and
Proposed HydraSleeve Sample Depths

Inactive Exxon Facility #28077
14258 Jarrettsville Pike
Phoenix, Maryland

MW-73C

Depth of Feature (ft-bgs)	Proposed HydraSleeve Sample Depth (ft-bgs)	Feature Characteristics	Feature Category
125	128	Bedding / banding / foliation	0
127		Bedding / banding / foliation	
128		Bedding / banding / foliation	
148.5	148.5	Bedding / banding / foliation Gneiss to schist contact - as observed during drilling Natural gamma increase	0
164	166.5	Partially open joint / fracture	2
166.5		Minor open joint / fracture (2.57-inch aperture) Caliper enlargement Fluid conductivity change in slope Faint acoustic travel time	
182	185	Bedding / banding / foliation	0
185		Upward heat pulse flow measurement - (0.02 gpm)	
205	205	Filled fracture / joint Upward heat pulse flow measurement - (0.02 gpm)	0
258	259.5	Bedding / banding / foliation	0
259.5		Bedding / banding / foliation	
293	295	Bedding / banding / foliation	0
294		Bedding / banding / foliation	
295		Bedding / banding / foliation	
Category 0: Bedding, banding, foliation; retained to fill gap in sample coverage Category 1: Joint/fracture; little indication of open fracture Category 2: Joint/fracture; evidence of open fracture or fluid flow			

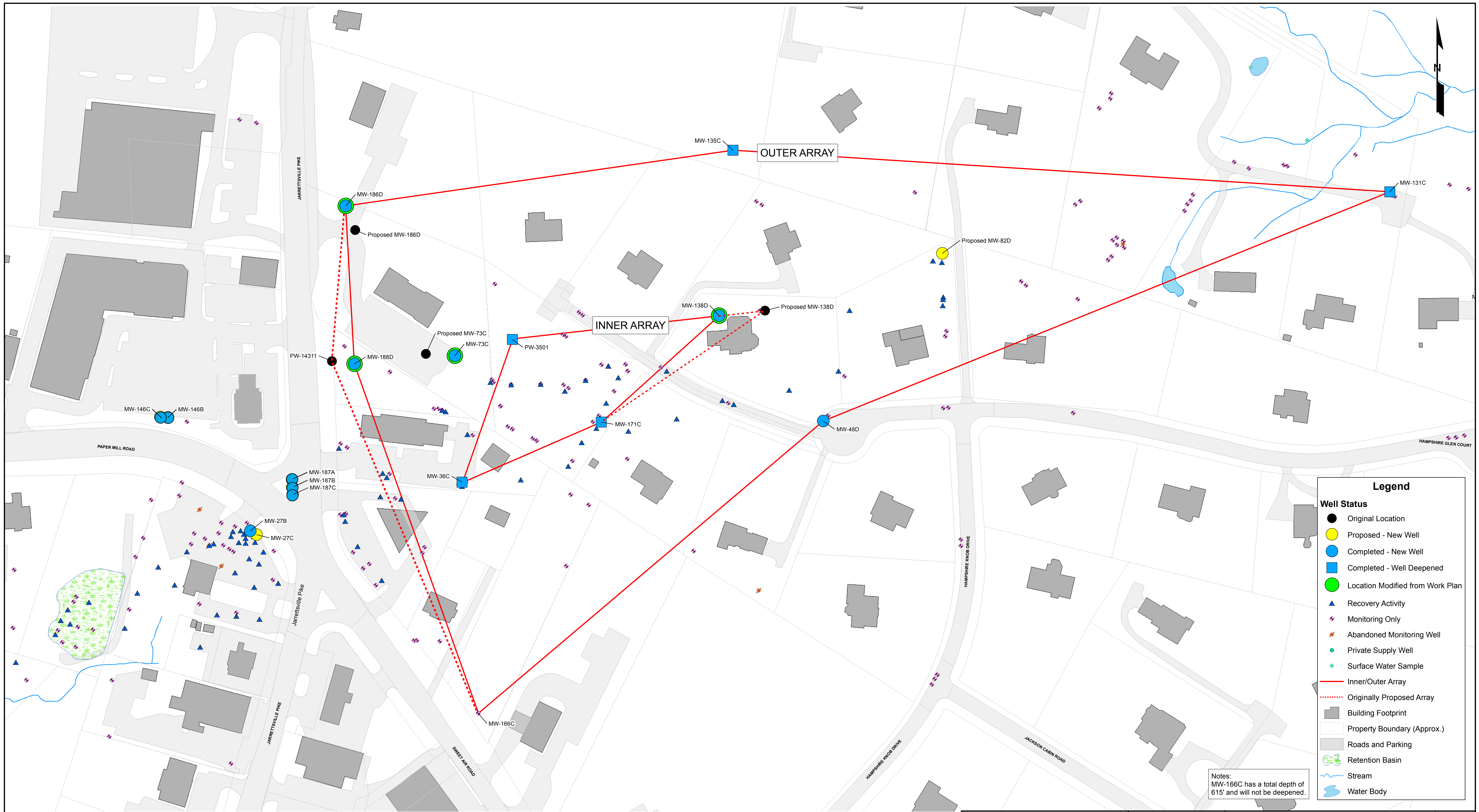
Table 3
Borehole Geophysical Analysis and
Proposed HydraSleeve Sample Depths

Inactive Exxon Facility #28077
14258 Jarrettsville Pike
Phoenix, Maryland

MW-186D

Depth of Feature (ft-bgs)	Proposed HydraSleeve Sample Depth (ft-bgs)	Feature Characteristics	Feature Category
81	81	Minor open joint / fracture Caliper enlargement Faint acoustic travel time	1
135	138	Upward heat pulse flow measurement - (0.02 gpm)	0
138		Filled fracture / joint	
175	175	Minor open joint / fracture Caliper enlargement Faint acoustic travel time	1
210	212	Bedding / banding / foliation Upward heat pulse flow measurement - (0.02 gpm)	0
212		Bedding / banding / foliation	
327	330	Minor open joint / fracture Faint acoustic travel time	2
328		Fluid conductivity deviation	
330		Minor open joint / fracture (4.06-inch aperture) Caliper enlargement Faint acoustic travel time	
332.5	336	Minor open joint / fracture	2
333.5		Minor open joint / fracture (4.51-inch aperture) Caliper enlargement Faint acoustic travel time	
336		Partially open joint / fracture Faint acoustic travel time Caliper enlargement	
415	417	Bedding / banding / foliation	0
416		Bedding / banding / foliation	
417		Bedding / banding / foliation	
Category 0: Bedding, banding, foliation; retained to fill gap in sample coverage Category 1: Joint/fracture; little indication of open fracture Category 2: Joint/fracture; evidence of open fracture or fluid flow			

FIGURE



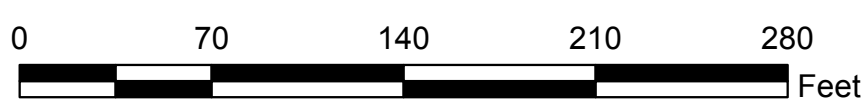
Legend

Well Status

- Original Location
- Proposed - New Well
- Completed - New Well
- Completed - Well Deepened
- Location Modified from Work Plan
- ▲ Recovery Activity
- ✦ Monitoring Only
- ✦ Abandoned Monitoring Well
- Private Supply Well
- Surface Water Sample
- Inner/Outer Array
- Originally Proposed Array
- Building Footprint
- Property Boundary (Approx.)
- Roads and Parking
- Retention Basin
- Stream
- Water Body

Notes:
MW-166C has a total depth of 615' and will not be deepened.

The information included on this graphic representation has been compiled from a variety of sources and is subject to change without notice. It is intended for informational purposes only and should not be used for any other purpose. This document is not intended to be used as a legal document. It is the responsibility of the user to verify the accuracy of the information presented. The user shall release and hold harmless the provider of this information from any and all claims, damages, and expenses, including reasonable attorneys' fees, arising from the use or misuse of this information.



KLEINFELDER
Bright People. Right Solutions.

1340 Charwood Road, Suite 1
Hanover, Maryland 21076
T 866.862.9700
F 410.850.0049
www.kleinfelder.com

PROJECT NO.	138681
DRAWN:	2/19/2014
DRAWN BY:	B. Myers
CHECKED BY:	S. Rochford
FILE NAME:	

NEW WELL MAP

INACTIVE EXXON FACILITY #28077
14258 JARRETTVILLE PIKE
PHOENIX, MARYLAND
BALTIMORE COUNTY

APPENDIX A

Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

PO#51141-243044

Accutest Job Number: JB53579

Sampling Date: 11/17/13

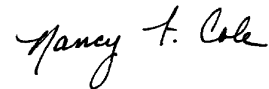
Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **17**



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



Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

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

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Summary of Hits	4
Section 3: Sample Results	5
3.1: JB53579-1: MW073C(DTW125-A)	6
3.2: JB53579-2: MW073C(DTW125-B)	9
3.3: JB53579-3: TRIP BLANK JCM 1	12
Section 4: Misc. Forms	15
4.1: Chain of Custody	16



Sample Summary

ExxonMobil Corporation

Job No: JB53579

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO#51141-243044

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB53579-1	11/17/13	08:20 JCM	11/19/13	AQ	Ground Water	MW073C(DTW125-A)
JB53579-2	11/17/13	08:30 JCM	11/19/13	AQ	Ground Water	MW073C(DTW125-B)
JB53579-3	11/17/13	08:30 JCM	11/19/13	AQ	Trip Blank Water	TRIP BLANK JCM 1

Summary of Hits

Job Number: JB53579
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 11/17/13

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

JB53579-1 MW073C(DTW125-A)

No hits reported in this sample.

JB53579-2 MW073C(DTW125-B)

Acetone	4.5 J	10	3.3	ug/l	SW846 8260B
2-Butanone (MEK)	219	50	16	ug/l	SW846 8260B

JB53579-3 TRIP BLANK JCM 1

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

3.1
3

Client Sample ID: MW073C(DTW125-A)	
Lab Sample ID: JB53579-1	Date Sampled: 11/17/13
Matrix: AQ - Ground Water	Date Received: 11/19/13
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V4985.D	1	11/20/13	TP	n/a	n/a	V3V207
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.39	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.48	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.17	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW073C(DTW125-A)	
Lab Sample ID: JB53579-1	Date Sampled: 11/17/13
Matrix: AQ - Ground Water	Date Received: 11/19/13
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.21	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.17	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.42	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.42	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.5	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.33	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
91-20-3	Naphthalene	ND	5.0	0.25	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.32	ug/l	
100-42-5	Styrene	ND	5.0	0.30	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.33	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.67	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.23	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.19	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		79-117%

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

Report of Analysis

Client Sample ID: MW073C(DTW125-A)	
Lab Sample ID: JB53579-1	Date Sampled: 11/17/13
Matrix: AQ - Ground Water	Date Received: 11/19/13
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	82%		72-123%
2037-26-5	Toluene-D8	92%		82-118%
460-00-4	4-Bromofluorobenzene	88%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

32
3

Client Sample ID: MW073C(DTW125-B)		Date Sampled: 11/17/13
Lab Sample ID: JB53579-2		Date Received: 11/19/13
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	88%	91%	72-123%
2037-26-5	Toluene-D8	90%	90%	82-118%
460-00-4	4-Bromofluorobenzene	89%	89%	75-118%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JCM 1	Date Sampled:	11/17/13
Lab Sample ID:	JB53579-3	Date Received:	11/19/13
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A141373.D	1	11/20/13	CC	n/a	n/a	V2A6044
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.39	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.48	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.17	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JCM 1	Date Sampled:	11/17/13
Lab Sample ID:	JB53579-3	Date Received:	11/19/13
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.21	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.17	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.42	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.42	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.5	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.33	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
91-20-3	Naphthalene	ND	5.0	0.25	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.32	ug/l	
100-42-5	Styrene	ND	5.0	0.30	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.33	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.67	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.23	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.19	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		79-117%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANK JCM 1	
Lab Sample ID: JB53579-3	Date Sampled: 11/17/13
Matrix: AQ - Trip Blank Water	Date Received: 11/19/13
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	102%		72-123%
2037-26-5	Toluene-D8	106%		82-118%
460-00-4	4-Bromofluorobenzene	94%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB53579 Client: _____ Project: _____
 Date / Time Received: 11/19/2013 Delivery Method: _____ Airbill #'s: _____

Cooler Temps (Initial/Adjusted): #1: (1/1); 0

<u>Cooler Security</u>	<u>Y</u>	<u>or</u>	<u>N</u>		<u>Y</u>	<u>or</u>	<u>N</u>
1. Custody Seals Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:	Intact		

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

Accutest Laboratories
V: 732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www.accutest.com

4.1
4

Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

PO#51141-243044

Accutest Job Number: JB54261

Sampling Date: 11/25/13

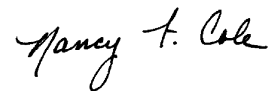
Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: 17



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



Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

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

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Summary of Hits	4
Section 3: Sample Results	5
3.1: JB54261-1: MW073C(AP)	6
3.2: JB54261-2: MW073C(BP)	9
3.3: JB54261-3: TRIP BLANK JCM 1	12
Section 4: Misc. Forms	15
4.1: Chain of Custody	16



Sample Summary

ExxonMobil Corporation

Job No: JB54261

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO#51141-243044

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB54261-1	11/25/13	15:30 JCM	11/26/13	AQ	Ground Water	MW073C(AP)
JB54261-2	11/25/13	15:40 JCM	11/26/13	AQ	Ground Water	MW073C(BP)
JB54261-3	11/25/13	15:40 JCM	11/26/13	AQ	Trip Blank Water	TRIP BLANK JCM 1

Summary of Hits

Job Number: JB54261
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 11/25/13

Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
---------------	------------------	--------------------	----	-----	-------	--------

JB54261-1 MW073C(AP)

Benzene	31.1	20	5.6	ug/l	SW846 8260B
Di-Isopropyl ether	15.9 J	100	4.8	ug/l	SW846 8260B
Ethylbenzene	4.5 J	20	4.2	ug/l	SW846 8260B
Methyl Tert Butyl Ether	5070	100	29	ug/l	SW846 8260B
Tert Butyl Alcohol	1180	500	38	ug/l	SW846 8260B
tert-Amyl Methyl Ether	394	100	4.1	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	91.5 J	100	4.9	ug/l	SW846 8260B
Toluene	124	20	8.9	ug/l	SW846 8260B
Xylene (total)	7.3 J	20	3.9	ug/l	SW846 8260B

JB54261-2 MW073C(BP)

Acetone	45.4 J	50	17	ug/l	SW846 8260B
Di-Isopropyl ether	2.6 J	25	1.2	ug/l	SW846 8260B
Methyl Tert Butyl Ether	2330	50	14	ug/l	SW846 8260B
Tert Butyl Alcohol	1090	130	9.4	ug/l	SW846 8260B
tert-Amyl Methyl Ether	137	25	1.0	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	24.7 J	25	1.2	ug/l	SW846 8260B
Toluene	10.1	5.0	2.2	ug/l	SW846 8260B

JB54261-3 TRIP BLANK JCM 1

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW073C(AP)	Date Sampled:	11/25/13
Lab Sample ID:	JB54261-1	Date Received:	11/26/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D43057.D	20	11/27/13	PR	n/a	n/a	V4D1933
Run #2	4D43043.D	100	11/27/13	PR	n/a	n/a	V4D1933

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	200	67	ug/l	
71-43-2	Benzene	31.1	20	5.6	ug/l	
108-86-1	Bromobenzene	ND	100	5.0	ug/l	
74-97-5	Bromochloromethane	ND	100	8.3	ug/l	
75-27-4	Bromodichloromethane	ND	20	4.2	ug/l	
75-25-2	Bromoform	ND	80	6.0	ug/l	
74-83-9	Bromomethane	ND	40	11	ug/l	
78-93-3	2-Butanone (MEK)	ND	200	64	ug/l	
104-51-8	n-Butylbenzene	ND	100	7.8	ug/l	
135-98-8	sec-Butylbenzene	ND	100	9.5	ug/l	
98-06-6	tert-Butylbenzene	ND	100	4.9	ug/l	
56-23-5	Carbon tetrachloride	ND	20	4.5	ug/l	
108-90-7	Chlorobenzene	ND	20	6.9	ug/l	
75-00-3	Chloroethane	ND	20	7.8	ug/l	
67-66-3	Chloroform	ND	20	4.9	ug/l	
74-87-3	Chloromethane	ND	20	7.3	ug/l	
95-49-8	o-Chlorotoluene	ND	100	3.4	ug/l	
106-43-4	p-Chlorotoluene	ND	100	5.5	ug/l	
108-20-3	Di-Isopropyl ether	15.9	100	4.8	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	200	25	ug/l	
124-48-1	Dibromochloromethane	ND	20	3.8	ug/l	
106-93-4	1,2-Dibromoethane	ND	40	3.2	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	20	4.1	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	20	6.3	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	20	6.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	13	ug/l	
75-34-3	1,1-Dichloroethane	ND	20	5.2	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	4.4	ug/l	
75-35-4	1,1-Dichloroethene	ND	20	6.9	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	20	4.8	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	20	7.6	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	5.6	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW073C(AP)	Date Sampled:	11/25/13
Lab Sample ID:	JB54261-1	Date Received:	11/26/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	100	4.5	ug/l	
594-20-7	2,2-Dichloropropane	ND	100	4.2	ug/l	
563-58-6	1,1-Dichloropropene	ND	100	3.4	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	3.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	4.1	ug/l	
100-41-4	Ethylbenzene	4.5	20	4.2	ug/l	J
87-68-3	Hexachlorobutadiene	ND	100	8.4	ug/l	
98-82-8	Isopropylbenzene	ND	40	4.5	ug/l	
99-87-6	p-Isopropyltoluene	ND	100	8.3	ug/l	
1634-04-4	Methyl Tert Butyl Ether	5070 ^a	100	29	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	100	30	ug/l	
74-95-3	Methylene bromide	ND	100	6.5	ug/l	
75-09-2	Methylene chloride	ND	40	17	ug/l	
91-20-3	Naphthalene	ND	100	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	100	6.5	ug/l	
100-42-5	Styrene	ND	100	6.0	ug/l	
75-65-0	Tert Butyl Alcohol	1180	500	38	ug/l	
994-05-8	tert-Amyl Methyl Ether	394	100	4.1	ug/l	
637-92-3	tert-Butyl Ethyl Ether	91.5	100	4.9	ug/l	J
630-20-6	1,1,1,2-Tetrachloroethane	ND	100	4.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	3.9	ug/l	
127-18-4	Tetrachloroethene	ND	20	5.0	ug/l	
108-88-3	Toluene	124	20	8.9	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	100	4.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	100	4.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	20	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	4.2	ug/l	
79-01-6	Trichloroethene	ND	20	10	ug/l	
75-69-4	Trichlorofluoromethane	ND	100	6.7	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	100	13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	40	4.6	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	40	8.5	ug/l	
75-01-4	Vinyl chloride	ND	20	8.3	ug/l	
	m,p-Xylene	ND	20	8.0	ug/l	
95-47-6	o-Xylene	ND	20	3.9	ug/l	
1330-20-7	Xylene (total)	7.3	20	3.9	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%	89%	79-117%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW073C(AP)	
Lab Sample ID: JB54261-1	Date Sampled: 11/25/13
Matrix: AQ - Ground Water	Date Received: 11/26/13
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	89%	88%	72-123%
2037-26-5	Toluene-D8	93%	92%	82-118%
460-00-4	4-Bromofluorobenzene	99%	98%	75-118%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

32
3

Client Sample ID: MW073C(BP)		
Lab Sample ID: JB54261-2		Date Sampled: 11/25/13
Matrix: AQ - Ground Water		Date Received: 11/26/13
Method: SW846 8260B		Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D43058.D	5	11/27/13	PR	n/a	n/a	V4D1933
Run #2	1A134816.D	50	11/30/13	CC	n/a	n/a	V1A5811

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	45.4	50	17	ug/l	J
71-43-2	Benzene	ND	5.0	1.4	ug/l	
108-86-1	Bromobenzene	ND	25	1.3	ug/l	
74-97-5	Bromochloromethane	ND	25	2.1	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	1.1	ug/l	
75-25-2	Bromoform	ND	20	1.5	ug/l	
74-83-9	Bromomethane	ND	10	2.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	16	ug/l	
104-51-8	n-Butylbenzene	ND	25	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	25	2.4	ug/l	
98-06-6	tert-Butylbenzene	ND	25	1.2	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	1.1	ug/l	
108-90-7	Chlorobenzene	ND	5.0	1.7	ug/l	
75-00-3	Chloroethane	ND	5.0	1.9	ug/l	
67-66-3	Chloroform	ND	5.0	1.2	ug/l	
74-87-3	Chloromethane	ND	5.0	1.8	ug/l	
95-49-8	o-Chlorotoluene	ND	25	0.86	ug/l	
106-43-4	p-Chlorotoluene	ND	25	1.4	ug/l	
108-20-3	Di-Isopropyl ether	2.6	25	1.2	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	6.3	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	0.96	ug/l	
106-93-4	1,2-Dibromoethane	ND	10	0.80	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.6	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.5	ug/l	
75-71-8	Dichlorodifluoromethane	ND	25	3.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	1.3	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.1	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	1.7	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	1.2	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	1.9	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	1.4	ug/l	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW073C(BP)	Date Sampled:	11/25/13
Lab Sample ID:	JB54261-2	Date Received:	11/26/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	25	1.1	ug/l	
594-20-7	2,2-Dichloropropane	ND	25	1.1	ug/l	
563-58-6	1,1-Dichloropropene	ND	25	0.85	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.76	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/l	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	25	2.1	ug/l	
98-82-8	Isopropylbenzene	ND	10	1.1	ug/l	
99-87-6	p-Isopropyltoluene	ND	25	2.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2330 ^a	50	14	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	25	7.4	ug/l	
74-95-3	Methylene bromide	ND	25	1.6	ug/l	
75-09-2	Methylene chloride	ND	10	4.3	ug/l	
91-20-3	Naphthalene	ND	25	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	25	1.6	ug/l	
100-42-5	Styrene	ND	25	1.5	ug/l	
75-65-0	Tert Butyl Alcohol	1090	130	9.4	ug/l	
994-05-8	tert-Amyl Methyl Ether	137	25	1.0	ug/l	
637-92-3	tert-Butyl Ethyl Ether	24.7	25	1.2	ug/l	J
630-20-6	1,1,1,2-Tetrachloroethane	ND	25	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.98	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	1.3	ug/l	
108-88-3	Toluene	10.1	5.0	2.2	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	25	1.2	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	25	1.1	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.2	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.1	ug/l	
79-01-6	Trichloroethene	ND	5.0	2.5	ug/l	
75-69-4	Trichlorofluoromethane	ND	25	1.7	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	25	3.3	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	10	1.1	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	10	2.1	ug/l	
75-01-4	Vinyl chloride	ND	5.0	2.1	ug/l	
	m,p-Xylene	ND	5.0	2.0	ug/l	
95-47-6	o-Xylene	ND	5.0	0.97	ug/l	
1330-20-7	Xylene (total)	ND	5.0	0.97	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%	98%	79-117%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW073C(BP)	
Lab Sample ID: JB54261-2	Date Sampled: 11/25/13
Matrix: AQ - Ground Water	Date Received: 11/26/13
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	91%	88%	72-123%
2037-26-5	Toluene-D8	92%	99%	82-118%
460-00-4	4-Bromofluorobenzene	99%	89%	75-118%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JCM 1	Date Sampled:	11/25/13
Lab Sample ID:	JB54261-3	Date Received:	11/26/13
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D43056.D	1	11/27/13	PR	n/a	n/a	V4D1933
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.39	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.48	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.17	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JCM 1	Date Sampled:	11/25/13
Lab Sample ID:	JB54261-3	Date Received:	11/26/13
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.21	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.17	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.42	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.42	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.5	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.33	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
91-20-3	Naphthalene	ND	5.0	0.25	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.32	ug/l	
100-42-5	Styrene	ND	5.0	0.30	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.33	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.67	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.23	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.19	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		79-117%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANK JCM 1	
Lab Sample ID: JB54261-3	Date Sampled: 11/25/13
Matrix: AQ - Trip Blank Water	Date Received: 11/26/13
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	89%		72-123%
2037-26-5	Toluene-D8	94%		82-118%
460-00-4	4-Bromofluorobenzene	98%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB54261 Client: _____ Project: _____
 Date / Time Received: 11/26/2013 Delivery Method: _____ Airbill #'s: _____

Cooler Temps (Initial/Adjusted): #1: (3.9/3.9); 0

<u>Cooler Security</u>	<u>Y</u>	<u>or</u>	<u>N</u>		<u>Y</u>	<u>or</u>	<u>N</u>
1. Custody Seals Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Cooler temp verification:	<u>IR Gun</u>		
3. Cooler media:	<u>Ice (Bag)</u>		
4. No. Coolers:	<u>1</u>		

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:	<u>Intact</u>		

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

Accutest Laboratories
V: 732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www.accutest.com

JB54261: Chain of Custody

Page 2 of 2

4.1
4

Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

PO#51141-243044

Accutest Job Number: JB55210

Sampling Date: 12/09/13

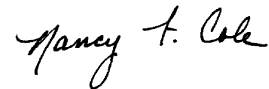
Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: 11



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



Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

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

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Summary of Hits	4
Section 3: Sample Results	5
3.1: JB55210-1: MW073C(AP)	6
3.2: JB55210-2: MW073C(BP)	7
3.3: JB55210-3: TRIP BLANK BR	8
Section 4: Misc. Forms	9
4.1: Chain of Custody	10



Sample Summary

ExxonMobil Corporation

Job No: JB55210

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO#51141-243044

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB55210-1	12/09/13	09:30 JW	12/10/13	AQ	Ground Water	MW073C(AP)
JB55210-2	12/09/13	09:35 JW	12/10/13	AQ	Ground Water	MW073C(BP)
JB55210-3	12/09/13	09:35 JW	12/10/13	AQ	Trip Blank Water	TRIP BLANK BR

Summary of Hits

Job Number: JB55210
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 12/09/13

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

JB55210-1 MW073C(AP)

Benzene	24.1	20	5.6	ug/l	SW846 8260B
Methyl Tert Butyl Ether	5430	200	57	ug/l	SW846 8260B
Tert Butyl Alcohol	1080	500	38	ug/l	SW846 8260B
Di-Isopropyl ether	20.0 J	100	4.8	ug/l	SW846 8260B
tert-Amyl Methyl Ether	399	100	4.1	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	88.4 J	100	4.9	ug/l	SW846 8260B

JB55210-2 MW073C(BP)

Benzene	100	20	5.6	ug/l	SW846 8260B
Toluene	47.9	20	8.9	ug/l	SW846 8260B
Ethylbenzene	4.8 J	20	4.2	ug/l	SW846 8260B
Xylene (total)	5.6 J	20	3.9	ug/l	SW846 8260B
Methyl Tert Butyl Ether	4890	200	57	ug/l	SW846 8260B
Tert Butyl Alcohol	1150	500	38	ug/l	SW846 8260B
Di-Isopropyl ether	22.2 J	100	4.8	ug/l	SW846 8260B
tert-Amyl Methyl Ether	398	100	4.1	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	92.0 J	100	4.9	ug/l	SW846 8260B

JB55210-3 TRIP BLANK BR

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

3.1
3

Client Sample ID: MW073C(AP)		Date Sampled: 12/09/13
Lab Sample ID: JB55210-1		Date Received: 12/10/13
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C114591.D	20	12/11/13	DR	n/a	n/a	V2C5270
Run #2	2C114595.D	200	12/11/13	DR	n/a	n/a	V2C5270

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	24.1	20	5.6	ug/l	
108-88-3	Toluene	ND	20	8.9	ug/l	
100-41-4	Ethylbenzene	ND	20	4.2	ug/l	
1330-20-7	Xylene (total)	ND	20	3.9	ug/l	
1634-04-4	Methyl Tert Butyl Ether	5430 ^a	200	57	ug/l	
75-65-0	Tert Butyl Alcohol	1080	500	38	ug/l	
108-20-3	Di-Isopropyl ether	20.0	100	4.8	ug/l	J
994-05-8	tert-Amyl Methyl Ether	399	100	4.1	ug/l	
637-92-3	tert-Butyl Ethyl Ether	88.4	100	4.9	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%	90%	79-117%
17060-07-0	1,2-Dichloroethane-D4	96%	98%	72-123%
2037-26-5	Toluene-D8	91%	91%	82-118%
460-00-4	4-Bromofluorobenzene	98%	97%	75-118%

(a) Result is from Run# 2

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

Report of Analysis

Client Sample ID:	MW073C(BP)	Date Sampled:	12/09/13
Lab Sample ID:	JB55210-2	Date Received:	12/10/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C114592.D	20	12/11/13	DR	n/a	n/a	V2C5270
Run #2	2C114596.D	200	12/11/13	DR	n/a	n/a	V2C5270

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	100	20	5.6	ug/l	
108-88-3	Toluene	47.9	20	8.9	ug/l	
100-41-4	Ethylbenzene	4.8	20	4.2	ug/l	J
1330-20-7	Xylene (total)	5.6	20	3.9	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	4890 ^a	200	57	ug/l	
75-65-0	Tert Butyl Alcohol	1150	500	38	ug/l	
108-20-3	Di-Isopropyl ether	22.2	100	4.8	ug/l	J
994-05-8	tert-Amyl Methyl Ether	398	100	4.1	ug/l	
637-92-3	tert-Butyl Ethyl Ether	92.0	100	4.9	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%	89%	79-117%
17060-07-0	1,2-Dichloroethane-D4	96%	98%	72-123%
2037-26-5	Toluene-D8	91%	91%	82-118%
460-00-4	4-Bromofluorobenzene	98%	98%	75-118%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK BR	Date Sampled:	12/09/13
Lab Sample ID:	JB55210-3	Date Received:	12/10/13
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C114587.D	1	12/11/13	DR	n/a	n/a	V2C5270
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		79-117%
17060-07-0	1,2-Dichloroethane-D4	95%		72-123%
2037-26-5	Toluene-D8	91%		82-118%
460-00-4	4-Bromofluorobenzene	97%		75-118%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

BR



CHAIN OF CUSTODY- ExxonMobil Projects

Accutest New Jersey (Mid Atlantic) Regional Lab 2235
Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #
Accutest Job # **JB55210**

Client / Reporting Information		SITE NAME - Provide Site Name for Retail or AFE Number for Major Projects										Requested Analysis (see TEST CODE sheet)										Matrix Codes									
Company Name Kleinfelder		Retail Project (Site Name) Exxon - Phoenix										DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIO - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank										LAB USE ONLY									
Street Address 1340 Chanwood Road Ste. 1		Major Project (AFE) 28077																													
City Hanover, MD		Project Name 14258 Jarrettsville Pike										If Project is Direct Bill to Consultant Company Name Kleinfelder Street Address 1 Speen Street, Second Floor City Phoenix State MD Zip 21076																			
State MD		City Phoenix State MD Zip 21076																													
Project Contact Stacey Schiding		ExxonMobil Manager John Hoban										City Framingham State MA Zip 01701																			
Phone # 410-850-0404		ExxonMobil Purchase Order # N/A										Attention: Accounts Payable PO# 51141-243044																			
Samples Name(s) Jessica Warren		Collection										Number of preserved Bottles																			
Field ID / Point of Collection		MEDI/DI Val #		Date		Time		Sampled by		Matrix		# of bottles		ACI		MCH		MHD		MDO			MNO		DI Water		MEDI		ENCLOSURE		
1				12/19/13		0930		JW		GW		3		3																X	
2				12/19/13		0935		JW		GW		3		3																X	
3				12/23/13		0900		-		TB		2		2														X			

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB55210 Client: _____ Project: _____

Date / Time Received: 12/10/2013 Delivery Method: _____ Airbill #'s: _____

Cooler Temps (Initial/Adjusted): #1: (2.6/2.6); 0

<u>Cooler Security</u>	<u>Y or N</u>	<u>Y or N</u>
1. Custody Seals Present:	<input checked="" type="checkbox"/> <input type="checkbox"/>	3. COC Present: <input checked="" type="checkbox"/> <input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/> <input type="checkbox"/>	4. Smpl Dates/Time OK <input checked="" type="checkbox"/> <input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y or N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Cooler temp verification:	_____
3. Cooler media:	<u>Ice (Bag)</u>
4. No. Coolers:	<u>1</u>

<u>Quality Control Preservation</u>	<u>Y or N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
2. Trip Blank listed on COC:	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
3. Samples preserved properly:	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
4. VOCs headspace free:	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

<u>Sample Integrity - Documentation</u>	<u>Y or N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/> <input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/> <input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y or N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/> <input type="checkbox"/>
3. Condition of sample:	_____ Intact

<u>Sample Integrity - Instructions</u>	<u>Y or N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/> <input type="checkbox"/>	
2. Bottles received for unspecified tests:	<input type="checkbox"/> <input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/> <input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

4.1
4

Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

PO#51141-243044

Accutest Job Number: JB55214

Sampling Date: 12/08/13

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: 17



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

Nancy F. Cole

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

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

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Summary of Hits	4
Section 3: Sample Results	5
3.1: JB55214-1: MW186D(DTB70-I)	6
3.2: JB55214-2: MW186D(DTB70-O)	9
3.3: JB55214-3: TRIP BLANK JCM 1	12
Section 4: Misc. Forms	15
4.1: Chain of Custody	16



Sample Summary

ExxonMobil Corporation

Job No: JB55214

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO#51141-243044

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB55214-1	12/08/13	08:30 JCM	12/10/13	AQ	Ground Water	MW186D(DTB70-I)
JB55214-2	12/08/13	08:45 JCM	12/10/13	AQ	Ground Water	MW186D(DTB70-O)
JB55214-3	12/08/13	08:45 JCM	12/10/13	AQ	Trip Blank Water	TRIP BLANK JCM 1

Summary of Hits

Job Number: JB55214
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 12/08/13

Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
---------------	------------------	--------------------	----	-----	-------	--------

JB55214-1	MW186D(DTB70-I)						
		Styrene	4.4 J	5.0	0.30	ug/l	SW846 8260B

JB55214-2 MW186D(DTB70-O)

No hits reported in this sample.

JB55214-3 TRIP BLANK JCM 1

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW186D(DTB70-I)	Date Sampled:	12/08/13
Lab Sample ID:	JB55214-1	Date Received:	12/10/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C114593.D	1	12/11/13	DR	n/a	n/a	V2C5270
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.39	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.48	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.17	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW186D(DTB70-I)	Date Sampled:	12/08/13
Lab Sample ID:	JB55214-1	Date Received:	12/10/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.21	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.17	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.42	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.42	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.5	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.33	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
91-20-3	Naphthalene	ND	5.0	0.25	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.32	ug/l	
100-42-5	Styrene	4.4	5.0	0.30	ug/l	J
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.33	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.67	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.23	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.19	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		79-117%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW186D(DTB70-I)	
Lab Sample ID: JB55214-1	Date Sampled: 12/08/13
Matrix: AQ - Ground Water	Date Received: 12/10/13
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	96%		72-123%
2037-26-5	Toluene-D8	92%		82-118%
460-00-4	4-Bromofluorobenzene	97%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW186D(DTB70-O)	
Lab Sample ID: JB55214-2	Date Sampled: 12/08/13
Matrix: AQ - Ground Water	Date Received: 12/10/13
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C114594.D	1	12/11/13	DR	n/a	n/a	V2C5270
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.39	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.48	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.17	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW186D(DTB70-O)	
Lab Sample ID: JB55214-2	Date Sampled: 12/08/13
Matrix: AQ - Ground Water	Date Received: 12/10/13
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	97%		72-123%
2037-26-5	Toluene-D8	91%		82-118%
460-00-4	4-Bromofluorobenzene	98%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JCM 1	Date Sampled:	12/08/13
Lab Sample ID:	JB55214-3	Date Received:	12/10/13
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C114588.D	1	12/11/13	DR	n/a	n/a	V2C5270
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.39	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.48	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.17	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JCM 1	Date Sampled:	12/08/13
Lab Sample ID:	JB55214-3	Date Received:	12/10/13
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.21	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.17	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.42	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.42	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.5	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.33	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
91-20-3	Naphthalene	ND	5.0	0.25	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.32	ug/l	
100-42-5	Styrene	ND	5.0	0.30	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.33	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.67	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.23	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.19	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		79-117%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANK JCM 1	
Lab Sample ID: JB55214-3	Date Sampled: 12/08/13
Matrix: AQ - Trip Blank Water	Date Received: 12/10/13
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	96%		72-123%
2037-26-5	Toluene-D8	91%		82-118%
460-00-4	4-Bromofluorobenzene	97%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY- ExxonMobil Projects

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB55214

Client / Reporting Information		SITE NAME - Provide Site Name for Retail or AFE Number for Major Projects				Requested Analysis (see TEST CODE sheet)												Matrix Codes
Company Name Kleinfelder Street Address 1340 Charwood Road Ste. 1 City Hanover, MD State MD Zip 21076 Project Contact Stacey Schlding Phone # 410-850-0404 Fax # 410-850-0049 Sampler(s) Name(s) Jonathan Mead 860-508-4663		Retail Project (Site Name) Exxon - Phoenix Major Project (AFE) 28077 Project Name 14258 Jarrettsville Pike City Phoenix State MD ExxonMobil Manager John Hoban ExxonMobil Purchase Order # N/A				ExxonMobil Environmental Services Co. If Project is Direct Bill to Consultant Company Name Kleinfelder Street Address 1 Speen Street, Second Floor City Framingham State MA Zip 01701 Attention: Accounts Payable PO# 51141-243044												DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank
Field ID / Point of Collection MW186D(DTB70-I) MW186D(DTB70-O) Trip Blank JCM 1		MECHDI Val # Date 12/8/2013 Time 8:30 Sampled by JCM Matrix GW # of bottles 3 HCl 3 Number of preserved bottles HCl, MECH, HNO3, H2SO4, NONE, DI Water, MECH, ENCORE				8260B - Full List, VOCs + Fuel Oxygenates LAB USE ONLY												

Turnaround Time (Business days)		Data Deliverable Information										Comments / Special Instructions	
<input type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> 8 Day RUSH <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input checked="" type="checkbox"/> 1 Day EMERGENCY Emergency & Rush T/A data available VIA Lablink		Approved By (Accutest PM): / Date: _____ <input checked="" type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> NYASP Category A <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NYASP Category B <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> State Forms <input type="checkbox"/> NJ Reduced <input type="checkbox"/> EDD Format <input type="checkbox"/> Commercial "C" Commercial "A" = Results Only Commercial "B" = Results + QC Summary NJ Reduced = Results + QC Summary + Partial Raw data										24-hr Turn Around Time _____ _____	

Relinquished by Sampler: _____ Date Time: _____ Received By: _____ Date Time: 12-10-13 Relinquished by Sampler: _____ Date Time: _____ Received By: _____ Date Time: 12-10-13 Relinquished by: _____ Date Time: _____ Received By: _____ Date Time: 1/6/14								Custody Seal # NONE <input type="checkbox"/> Intact <input type="checkbox"/> Not intact		Preserved where applicable <input type="checkbox"/> On Ice <input checked="" type="checkbox"/> Cooler Temp. 12.8 C	
---	--	--	--	--	--	--	--	---	--	---	--



Accutest Job Number: JB55214 **Client:** _____ **Project:** _____
Date / Time Received: 12/10/2013 **Delivery Method:** _____ **Airbill #s:** _____
Cooler Temps (Initial/Adjusted): #1: (1.8/1.8); 0

<u>Cooler Security</u>	<u>Y or N</u>	<u>Y or N</u>
1. Custody Seals Present:	<input checked="" type="checkbox"/> <input type="checkbox"/>	3. COC Present: <input checked="" type="checkbox"/> <input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/> <input type="checkbox"/>	4. Smpl Dates/Time OK <input checked="" type="checkbox"/> <input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y or N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Cooler temp verification:	_____
3. Cooler media:	Ice (Bag)
4. No. Coolers:	1

<u>Quality Control Preservation</u>	<u>Y or N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
2. Trip Blank listed on COC:	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
3. Samples preserved properly:	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
4. VOCs headspace free:	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

<u>Sample Integrity - Documentation</u>	<u>Y or N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/> <input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/> <input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y or N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/> <input type="checkbox"/>
3. Condition of sample:	Intact

<u>Sample Integrity - Instructions</u>	<u>Y or N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/> <input type="checkbox"/>	
2. Bottles received for unspecified tests:	<input type="checkbox"/> <input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/> <input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

4.1
4

Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

51141-243044

Accutest Job Number: JB55839

Sampling Dates: 12/14/13 - 12/15/13

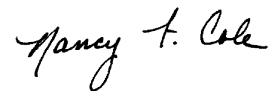
Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **21**



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



Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

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

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Summary of Hits	4
Section 3: Sample Results	5
3.1: JB55839-1: MW186D(DTB70-1)	6
3.2: JB55839-2: TRIP BLANK JCM1	9
3.3: JB55839-3: MW186D(AP)	12
3.4: JB55839-4: MW186D(BP)	15
Section 4: Misc. Forms	18
4.1: Chain of Custody	19



Sample Summary

ExxonMobil Corporation

Job No: JB55839

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: 51141-243044

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB55839-1	12/14/13	09:00 JCM	12/17/13	AQ	Ground Water	MW186D(DTB70-1)
JB55839-2	12/15/13	17:00 JCM	12/17/13	AQ	Trip Blank Water	TRIP BLANK JCM1
JB55839-3	12/15/13	17:00 JCM	12/17/13	AQ	Ground Water	MW186D(AP)
JB55839-4	12/15/13	16:50 JCM	12/17/13	AQ	Ground Water	MW186D(BP)

Summary of Hits

Job Number: JB55839
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 12/14/13 thru 12/15/13

Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
---------------	------------------	--------------------	----	-----	-------	--------

JB55839-1	MW186D(DTB70-1)					
		Styrene	2.9 J	5.0	0.30	ug/l SW846 8260B

JB55839-2 TRIP BLANK JCM1

No hits reported in this sample.

JB55839-3 MW186D(AP)

No hits reported in this sample.

JB55839-4 MW186D(BP)

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW186D(DTB70-1)	Date Sampled:	12/14/13
Lab Sample ID:	JB55839-1	Date Received:	12/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A142351.D	1	12/18/13	CC	n/a	n/a	V2A6084
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.39	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.48	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.17	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW186D(DTB70-1)	
Lab Sample ID: JB55839-1	Date Sampled: 12/14/13
Matrix: AQ - Ground Water	Date Received: 12/17/13
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.21	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.17	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.42	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.42	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.5	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.33	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
91-20-3	Naphthalene	ND	5.0	0.25	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.32	ug/l	
100-42-5	Styrene	2.9	5.0	0.30	ug/l	J
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.33	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.67	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.23	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.19	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-117%

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

Report of Analysis

Client Sample ID: MW186D(DTB70-1)	
Lab Sample ID: JB55839-1	Date Sampled: 12/14/13
Matrix: AQ - Ground Water	Date Received: 12/17/13
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	105%		72-123%
2037-26-5	Toluene-D8	101%		82-118%
460-00-4	4-Bromofluorobenzene	87%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JCM1	Date Sampled:	12/15/13
Lab Sample ID:	JB55839-2	Date Received:	12/17/13
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A126731.D	1	12/18/13	TS	n/a	n/a	V3A5476
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.39	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.48	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.17	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK JCM1	Date Sampled:	12/15/13
Lab Sample ID:	JB55839-2	Date Received:	12/17/13
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.21	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.17	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.42	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.42	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.5	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.33	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
91-20-3	Naphthalene	ND	5.0	0.25	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.32	ug/l	
100-42-5	Styrene	ND	5.0	0.30	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.33	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.67	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.23	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.19	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		79-117%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANK JCM1	
Lab Sample ID: JB55839-2	Date Sampled: 12/15/13
Matrix: AQ - Trip Blank Water	Date Received: 12/17/13
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	94%		72-123%
2037-26-5	Toluene-D8	113%		82-118%
460-00-4	4-Bromofluorobenzene	104%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW186D(AP)	Date Sampled:	12/15/13
Lab Sample ID:	JB55839-3	Date Received:	12/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A142352.D	1	12/18/13	CC	n/a	n/a	V2A6084
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.39	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.48	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.17	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW186D(AP)	Date Sampled:	12/15/13
Lab Sample ID:	JB55839-3	Date Received:	12/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.23	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.21	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.17	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.42	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.42	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.5	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.33	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
91-20-3	Naphthalene	ND	5.0	0.25	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.32	ug/l	
100-42-5	Styrene	ND	5.0	0.30	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.22	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.33	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.67	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.23	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	ND	1.0	0.40	ug/l	
95-47-6	o-Xylene	ND	1.0	0.19	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-117%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW186D(AP)	
Lab Sample ID: JB55839-3	Date Sampled: 12/15/13
Matrix: AQ - Ground Water	Date Received: 12/17/13
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	105%		72-123%
2037-26-5	Toluene-D8	101%		82-118%
460-00-4	4-Bromofluorobenzene	88%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW186D(BP)	
Lab Sample ID: JB55839-4	Date Sampled: 12/15/13
Matrix: AQ - Ground Water	Date Received: 12/17/13
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A126730.D	1	12/18/13	TS	n/a	n/a	V3A5476
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.56	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.39	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.48	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.25	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.35	ug/l	
75-00-3	Chloroethane	ND	1.0	0.39	ug/l	
67-66-3	Chloroform	ND	1.0	0.25	ug/l	
74-87-3	Chloromethane	ND	1.0	0.36	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.17	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.28	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.19	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.16	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.28	ug/l	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW186D(BP)	
Lab Sample ID: JB55839-4	Date Sampled: 12/15/13
Matrix: AQ - Ground Water	Date Received: 12/17/13
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	94%		72-123%
2037-26-5	Toluene-D8	112%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Job Number: JB55839 **Client:** KLEINFELDER **Project:** PHOENIX
Date / Time Received: 12/17/2013 1720 **Delivery Method:** Accutest Courier **Airbill #s:**

Cooler Temps (Initial/Adjusted): #1: (1.8/1.8): 0

<u>Cooler Security</u>		<u>Y or N</u>		<u>Y or N</u>	
1. Custody Seals Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Smpl Dates/Time OK	<input type="checkbox"/>	<input checked="" type="checkbox"/>

<u>Cooler Temperature</u>		<u>Y or N</u>	
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers	1		

<u>Quality Control Preservation</u>			
	<u>Y</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. VOCs headspace free:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Documentation</u>		<u>Y or N</u>	
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Sample container label / COC agree:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

<u>Sample Integrity - Condition</u>		<u>Y or N</u>	
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Condition of sample:	Intact		

<u>Sample Integrity - Instructions</u>			
	<u>Y</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments -3 Label time 1700, not 1650 ID & date ok
 -4 Label time 1650, not 1700 ID & date ok

4.1
4



Sample Receipt Summary - Problem Resolution

Accutest Job Number: JB55839

CSR: Michelle _____

Response Date: 12/18/2013

Response: Please use label times per Sean Rochford

4.1
4

Accutest Laboratories
V: 732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www.accutest.com

JB55839: Chain of Custody
Page 3 of 3

Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

PO#4410181426 80021012 0008

Accutest Job Number: JB57692

Sampling Dates: 01/13/14 - 01/14/14

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: 17



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

Nancy F. Cole

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

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

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Summary of Hits	4
Section 3: Sample Results	6
3.1: JB57692-1: MW073C(AP)	7
3.2: JB57692-2: MW073C(BP)	8
3.3: JB57692-3: MW188D(AP)	9
3.4: JB57692-4: MW188D(BP)	10
3.5: JB57692-5: TRIP BLANK JW1	11
3.6: JB57692-6: MW186D(BP)	12
3.7: JB57692-7: MW186D(AP)	13
3.8: JB57692-8: MW054C(HS-D)	14
Section 4: Misc. Forms	15
4.1: Chain of Custody	16



Sample Summary

ExxonMobil Corporation

Job No: JB57692

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO#4410181426 80021012 0008

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB57692-1	01/13/14	10:00 JW	01/14/14	AQ	Ground Water	MW073C(AP)
JB57692-2	01/13/14	10:05 JW	01/14/14	AQ	Ground Water	MW073C(BP)
JB57692-3	01/13/14	09:35 JW	01/14/14	AQ	Ground Water	MW188D(AP)
JB57692-4	01/13/14	09:40 JW	01/14/14	AQ	Ground Water	MW188D(BP)
JB57692-5	01/14/14	12:00 JW	01/14/14	AQ	Trip Blank Water	TRIP BLANK JW1
JB57692-6	01/13/14	10:15 JW	01/14/14	AQ	Ground Water	MW186D(BP)
JB57692-7	01/13/14	10:10 JW	01/14/14	AQ	Ground Water	MW186D(AP)
JB57692-8	01/14/14	12:00 JW	01/14/14	AQ	Ground Water	MW054C(HS-D)

Summary of Hits

Job Number: JB57692
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 01/13/14 thru 01/14/14

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

JB57692-1 MW073C(AP)

Benzene	0.85 J	1.0	0.28	ug/l	SW846 8260B
Toluene	53.9	1.0	0.44	ug/l	SW846 8260B
Ethylbenzene	0.32 J	1.0	0.21	ug/l	SW846 8260B
Xylene (total)	0.44 J	1.0	0.19	ug/l	SW846 8260B
Methyl Tert Butyl Ether	46.7	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether	2.8 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	0.62 J	5.0	0.25	ug/l	SW846 8260B

JB57692-2 MW073C(BP)

Benzene	17.1 J	25	7.0	ug/l	SW846 8260B
Methyl Tert Butyl Ether	4210	25	7.1	ug/l	SW846 8260B
Tert Butyl Alcohol	1070	630	47	ug/l	SW846 8260B
Di-Isopropyl ether	15.3 J	130	6.0	ug/l	SW846 8260B
tert-Amyl Methyl Ether	309	130	5.1	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	69.0 J	130	6.2	ug/l	SW846 8260B

JB57692-3 MW188D(AP)

Toluene	0.49 J	1.0	0.44	ug/l	SW846 8260B
Methyl Tert Butyl Ether	1.6	1.0	0.29	ug/l	SW846 8260B

JB57692-4 MW188D(BP)

Toluene	1.5	1.0	0.44	ug/l	SW846 8260B
Methyl Tert Butyl Ether	21.6	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether	1.6 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	0.34 J	5.0	0.25	ug/l	SW846 8260B

JB57692-5 TRIP BLANK JW1

No hits reported in this sample.

JB57692-6 MW186D(BP)

No hits reported in this sample.

JB57692-7 MW186D(AP)

No hits reported in this sample.

Summary of Hits

Job Number: JB57692
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 01/13/14 thru 01/14/14

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

JB57692-8 MW054C(HS-D)

Benzene	289	100	28	ug/l	SW846 8260B
Toluene	457	100	44	ug/l	SW846 8260B
Ethylbenzene	63.9 J	100	21	ug/l	SW846 8260B
Xylene (total)	239	100	19	ug/l	SW846 8260B
Methyl Tert Butyl Ether	36300	1000	290	ug/l	SW846 8260B
Tert Butyl Alcohol	2640	2500	190	ug/l	SW846 8260B
Di-Isopropyl ether	114 J	500	24	ug/l	SW846 8260B
tert-Amyl Methyl Ether	2060	500	20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	425 J	500	25	ug/l	SW846 8260B

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW073C(AP)		
Lab Sample ID: JB57692-1		Date Sampled: 01/13/14
Matrix: AQ - Ground Water		Date Received: 01/14/14
Method: SW846 8260B		Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C115799.D	1	01/22/14	TP	n/a	n/a	V2C5328
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.85	1.0	0.28	ug/l	J
108-88-3	Toluene	53.9	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	0.32	1.0	0.21	ug/l	J
1330-20-7	Xylene (total)	0.44	1.0	0.19	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	46.7	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	2.8	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.62	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-117%
17060-07-0	1,2-Dichloroethane-D4	96%		72-123%
2037-26-5	Toluene-D8	107%		82-118%
460-00-4	4-Bromofluorobenzene	101%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

32
3

Client Sample ID: MW073C(BP)		Date Sampled: 01/13/14
Lab Sample ID: JB57692-2		Date Received: 01/14/14
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C115802.D	25	01/22/14	TP	n/a	n/a	V2C5328
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	17.1	25	7.0	ug/l	J
108-88-3	Toluene	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	25	5.2	ug/l	
1330-20-7	Xylene (total)	ND	25	4.8	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4210	25	7.1	ug/l	
75-65-0	Tert Butyl Alcohol	1070	630	47	ug/l	
108-20-3	Di-Isopropyl ether	15.3	130	6.0	ug/l	J
994-05-8	tert-Amyl Methyl Ether	309	130	5.1	ug/l	
637-92-3	tert-Butyl Ethyl Ether	69.0	130	6.2	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-117%
17060-07-0	1,2-Dichloroethane-D4	97%		72-123%
2037-26-5	Toluene-D8	107%		82-118%
460-00-4	4-Bromofluorobenzene	99%		75-118%

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

Report of Analysis

Client Sample ID: MW188D(AP)		Date Sampled: 01/13/14
Lab Sample ID: JB57692-3		Date Received: 01/14/14
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C115800.D	1	01/22/14	TP	n/a	n/a	V2C5328
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	0.49	1.0	0.44	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.6	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-117%
17060-07-0	1,2-Dichloroethane-D4	94%		72-123%
2037-26-5	Toluene-D8	108%		82-118%
460-00-4	4-Bromofluorobenzene	99%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW188D(BP)	
Lab Sample ID: JB57692-4	Date Sampled: 01/13/14
Matrix: AQ - Ground Water	Date Received: 01/14/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C115801.D	1	01/22/14	TP	n/a	n/a	V2C5328
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	1.5	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	21.6	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	1.6	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.34	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		79-117%
17060-07-0	1,2-Dichloroethane-D4	94%		72-123%
2037-26-5	Toluene-D8	106%		82-118%
460-00-4	4-Bromofluorobenzene	100%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.5
3

Client Sample ID:	TRIP BLANK JW1	Date Sampled:	01/14/14
Lab Sample ID:	JB57692-5	Date Received:	01/14/14
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C115798.D	1	01/22/14	TP	n/a	n/a	V2C5328
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		79-117%
17060-07-0	1,2-Dichloroethane-D4	94%		72-123%
2037-26-5	Toluene-D8	106%		82-118%
460-00-4	4-Bromofluorobenzene	98%		75-118%

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

Report of Analysis

Client Sample ID: MW186D(BP)	Date Sampled: 01/13/14
Lab Sample ID: JB57692-6	Date Received: 01/14/14
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C115803.D	1	01/22/14	TP	n/a	n/a	V2C5328
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		79-117%
17060-07-0	1,2-Dichloroethane-D4	94%		72-123%
2037-26-5	Toluene-D8	107%		82-118%
460-00-4	4-Bromofluorobenzene	98%		75-118%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW186D(AP)	Date Sampled:	01/13/14
Lab Sample ID:	JB57692-7	Date Received:	01/14/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C115849.D	1	01/23/14	TP	n/a	n/a	V2C5330
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-117%
17060-07-0	1,2-Dichloroethane-D4	112%		72-123%
2037-26-5	Toluene-D8	106%		82-118%
460-00-4	4-Bromofluorobenzene	102%		75-118%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

3.8
3

Client Sample ID: MW054C(HS-D)		Date Sampled: 01/14/14
Lab Sample ID: JB57692-8		Date Received: 01/14/14
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C115897.D	100	01/24/14	TP	n/a	n/a	V2C5332
Run #2	2C115901.D	1000	01/24/14	TP	n/a	n/a	V2C5332

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	289	100	28	ug/l	
108-88-3	Toluene	457	100	44	ug/l	
100-41-4	Ethylbenzene	63.9	100	21	ug/l	J
1330-20-7	Xylene (total)	239	100	19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	36300 ^a	1000	290	ug/l	
75-65-0	Tert Butyl Alcohol	2640	2500	190	ug/l	
108-20-3	Di-Isopropyl ether	114	500	24	ug/l	J
994-05-8	tert-Amyl Methyl Ether	2060	500	20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	425	500	25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%	99%	79-117%
17060-07-0	1,2-Dichloroethane-D4	112%	111%	72-123%
2037-26-5	Toluene-D8	106%	105%	82-118%
460-00-4	4-Bromofluorobenzene	103%	101%	75-118%

(a) Result is from Run# 2

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Job Number: JB57692 **Client:** _____ **Project:** _____
Date / Time Received: 1/14/2014 **Delivery Method:** _____ **Airbill #'s:** _____
Cooler Temps (Initial/Adjusted): #1: (2.3/2.3); 0

<u>Cooler Security</u>	<u>Y or N</u>	<u>Y or N</u>
1. Custody Seals Present:	<input checked="" type="checkbox"/> <input type="checkbox"/>	3. COC Present: <input checked="" type="checkbox"/> <input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/> <input type="checkbox"/>	4. Smpl Dates/Time OK <input checked="" type="checkbox"/> <input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y or N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Cooler temp verification:	_____
3. Cooler media:	Ice (Bag)
4. No. Coolers:	1

<u>Quality Control Preservation</u>	<u>Y or N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
2. Trip Blank listed on COC:	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
3. Samples preserved properly:	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
4. VOCs headspace free:	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

<u>Sample Integrity - Documentation</u>	<u>Y or N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/> <input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/> <input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y or N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/> <input type="checkbox"/>
3. Condition of sample:	Intact

<u>Sample Integrity - Instructions</u>	<u>Y or N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/> <input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/> <input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/> <input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

4.1
4

Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

PO#4410181426 80021012 0008

Accutest Job Number: JB58946

Sampling Date: 01/30/14

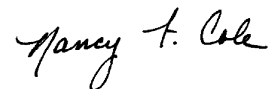
Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: 13



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



Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

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

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Summary of Hits	4
Section 3: Sample Results	5
3.1: JB58946-1: MW186D(AP)	6
3.2: JB58946-2: MW186D(BP)	7
3.3: JB58946-3: MW073C(AP)	8
3.4: JB58946-4: MW073C(BP)	9
3.5: JB58946-5: TRIP BLANK CC1	10
Section 4: Misc. Forms	11
4.1: Chain of Custody	12



Sample Summary

ExxonMobil Corporation

Job No: JB58946

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO#4410181426 80021012 0008

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB58946-1	01/30/14	10:45 CC	01/31/14	AQ	Ground Water	MW186D(AP)
JB58946-2	01/30/14	10:50 CC	01/31/14	AQ	Ground Water	MW186D(BP)
JB58946-3	01/30/14	11:20 CC	01/31/14	AQ	Ground Water	MW073C(AP)
JB58946-4	01/30/14	11:25 CC	01/31/14	AQ	Ground Water	MW073C(BP)
JB58946-5	01/30/14	11:25 CC	01/31/14	AQ	Trip Blank Water	TRIP BLANK CC1

Summary of Hits

Job Number: JB58946
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 01/30/14

Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
---------------	------------------	--------------------	----	-----	-------	--------

JB58946-1 MW186D(AP)

No hits reported in this sample.

JB58946-2 MW186D(BP)

No hits reported in this sample.

JB58946-3 MW073C(AP)

Methyl Tert Butyl Ether	5600	50	14	ug/l	SW846 8260B
Tert Butyl Alcohol	3200	1300	94	ug/l	SW846 8260B
Di-Isopropyl ether	17.2	5.0	0.24	ug/l	SW846 8260B
tert-Amyl Methyl Ether	409	250	10	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	84.3	5.0	0.25	ug/l	SW846 8260B

JB58946-4 MW073C(BP)

Methyl Tert Butyl Ether	4570	25	7.1	ug/l	SW846 8260B
Tert Butyl Alcohol	1220	630	47	ug/l	SW846 8260B
Di-Isopropyl ether	17.0 J	130	6.0	ug/l	SW846 8260B
tert-Amyl Methyl Ether	341	130	5.1	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	76.0 J	130	6.2	ug/l	SW846 8260B

JB58946-5 TRIP BLANK CC1

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW186D(AP)	Date Sampled:	01/30/14
Lab Sample ID:	JB58946-1	Date Received:	01/31/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180229.D	1	02/03/14	VC	n/a	n/a	VS7425
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		79-117%
17060-07-0	1,2-Dichloroethane-D4	105%		72-123%
2037-26-5	Toluene-D8	114%		82-118%
460-00-4	4-Bromofluorobenzene	107%		75-118%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

32
3

Client Sample ID: MW186D(BP)		Date Sampled: 01/30/14
Lab Sample ID: JB58946-2		Date Received: 01/31/14
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180230.D	1	02/03/14	VC	n/a	n/a	VS7425
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		79-117%
17060-07-0	1,2-Dichloroethane-D4	107%		72-123%
2037-26-5	Toluene-D8	112%		82-118%
460-00-4	4-Bromofluorobenzene	105%		75-118%

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

Report of Analysis

Client Sample ID: MW073C(AP)		
Lab Sample ID: JB58946-3		Date Sampled: 01/30/14
Matrix: AQ - Ground Water		Date Received: 01/31/14
Method: SW846 8260B		Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180231.D	1	02/03/14	VC	n/a	n/a	VS7425
Run #2	O142502.D	50	02/04/14	VC	n/a	n/a	VO6326

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	5600 ^a	50	14	ug/l	
75-65-0	Tert Butyl Alcohol	3200 ^a	1300	94	ug/l	
108-20-3	Di-Isopropyl ether	17.2	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	409 ^a	250	10	ug/l	
637-92-3	tert-Butyl Ethyl Ether	84.3	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%	111%	79-117%
17060-07-0	1,2-Dichloroethane-D4	111%	111%	72-123%
2037-26-5	Toluene-D8	115%	107%	82-118%
460-00-4	4-Bromofluorobenzene	107%	106%	75-118%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW073C(BP)		Date Sampled: 01/30/14
Lab Sample ID: JB58946-4		Date Received: 01/31/14
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180232.D	25	02/03/14	VC	n/a	n/a	VS7425
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	25	7.0	ug/l	
108-88-3	Toluene	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	25	5.2	ug/l	
1330-20-7	Xylene (total)	ND	25	4.8	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4570	25	7.1	ug/l	
75-65-0	Tert Butyl Alcohol	1220	630	47	ug/l	
108-20-3	Di-Isopropyl ether	17.0	130	6.0	ug/l	J
994-05-8	tert-Amyl Methyl Ether	341	130	5.1	ug/l	
637-92-3	tert-Butyl Ethyl Ether	76.0	130	6.2	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		79-117%
17060-07-0	1,2-Dichloroethane-D4	109%		72-123%
2037-26-5	Toluene-D8	111%		82-118%
460-00-4	4-Bromofluorobenzene	103%		75-118%

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

Report of Analysis

3.5
3

Client Sample ID: TRIP BLANK CC1		
Lab Sample ID: JB58946-5		Date Sampled: 01/30/14
Matrix: AQ - Trip Blank Water		Date Received: 01/31/14
Method: SW846 8260B		Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180233.D	1	02/03/14	VC	n/a	n/a	VS7425
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		79-117%
17060-07-0	1,2-Dichloroethane-D4	110%		72-123%
2037-26-5	Toluene-D8	110%		82-118%
460-00-4	4-Bromofluorobenzene	104%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB58946 **Client:** _____ **Project:** _____
Date / Time Received: 1/31/2014 **Delivery Method:** _____ **Airbill #'s:** _____
Cooler Temps (Initial/Adjusted): #1: (1.4/1.4); 0

Cooler Security		<u>Y or N</u>		<u>Y or N</u>
1. Custody Seals Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/> <input type="checkbox"/>

Cooler Temperature		<u>Y or N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Cooler temp verification:	IR Gun	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

Quality Control Preservation	<u>Y or N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>
4. VOCs headspace free:	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>

Sample Integrity - Documentation		<u>Y or N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Sample Integrity - Condition		<u>Y or N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Condition of sample:	Intact	

Sample Integrity - Instructions		<u>Y or N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

PO#4410181426 80021012 0008

Accutest Job Number: JB59893

Sampling Dates: 02/11/14 - 02/14/14

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: 50



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

Nancy F. Cole

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

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

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Summary of Hits	6
Section 3: Sample Results	10
3.1: JB59893-1: MW054C (HS-D)	11
3.2: JB59893-2: MW036C (HS-S)	12
3.3: JB59893-3: MW036C (HS-D)	13
3.4: JB59893-4: MW171C (HS-S)	14
3.5: JB59893-5: MW171C (HS-D)	15
3.6: JB59893-6: MW135C (HS-S)	16
3.7: JB59893-7: MW135C (HS-D)	17
3.8: JB59893-8: MW131C (HS-S)	18
3.9: JB59893-9: MW131C (HS-D)	19
3.10: JB59893-10: MW188D (AP)	20
3.11: JB59893-11: MW188D (BP)	21
3.12: JB59893-12: MW181C (126)	22
3.13: JB59893-13: MW181C (179)	23
3.14: JB59893-14: MW181C (187)	24
3.15: JB59893-15: MW181C (215)	25
3.16: JB59893-16: MW181C (221)	26
3.17: JB59893-17: MW181C (259.5)	27
3.18: JB59893-18: MW181C (284.5)	28
3.19: JB59893-19: MW181C (291)	29
3.20: JB59893-20: MW177 (130)	30
3.21: JB59893-21: MW177 (143)	31
3.22: JB59893-22: MW177 (220)	32
3.23: JB59893-23: MW177 (228)	33
3.24: JB59893-24: MW177 (236)	34
3.25: JB59893-25: MW091D	35
3.26: JB59893-26: MW073C (AP)	36
3.27: JB59893-27: MW073C (BP)	37
3.28: JB59893-28: MW179C (HS-S)	38
3.29: JB59893-29: MW179C (HS-D)	39
3.30: JB59893-30: MW176CC (HS)	40
3.31: JB59893-31: TRIP BLANK JW1	41
Section 4: Misc. Forms	42
4.1: Chain of Custody	43



Sample Summary

ExxonMobil Corporation

Job No: JB59893

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO#4410181426 80021012 0008

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB59893-1	02/11/14	12:00 BR	02/14/14	AQ	Ground Water	MW054C (HS-D)
JB59893-2	02/12/14	08:30 BR	02/14/14	AQ	Ground Water	MW036C (HS-S)
JB59893-3	02/12/14	08:35 BR	02/14/14	AQ	Ground Water	MW036C (HS-D)
JB59893-4	02/11/14	10:00 BR	02/14/14	AQ	Ground Water	MW171C (HS-S)
JB59893-5	02/11/14	10:05 BR	02/14/14	AQ	Ground Water	MW171C (HS-D)
JB59893-6	02/12/14	09:30 BR	02/14/14	AQ	Ground Water	MW135C (HS-S)
JB59893-7	02/12/14	09:35 BR	02/14/14	AQ	Ground Water	MW135C (HS-D)
JB59893-8	02/12/14	09:00 BR	02/14/14	AQ	Ground Water	MW131C (HS-S)
JB59893-9	02/12/14	09:05 BR	02/14/14	AQ	Ground Water	MW131C (HS-D)
JB59893-10	02/12/14	10:15 BR	02/14/14	AQ	Ground Water	MW188D (AP)
JB59893-11	02/12/14	10:25 BR	02/14/14	AQ	Ground Water	MW188D (BP)
JB59893-12	02/11/14	08:15 BR	02/14/14	AQ	Ground Water	MW181C (126)
JB59893-13	02/11/14	08:17 BR	02/14/14	AQ	Ground Water	MW181C (179)



Sample Summary (continued)

ExxonMobil Corporation

Job No: JB59893

**GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO#4410181426 80021012 0008**

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB59893-14	02/11/14	08:19 BR	02/14/14	AQ	Ground Water	MW181C (187)
JB59893-15	02/11/14	08:21 BR	02/14/14	AQ	Ground Water	MW181C (215)
JB59893-16	02/11/14	08:23 BR	02/14/14	AQ	Ground Water	MW181C (221)
JB59893-17	02/11/14	08:25 BR	02/14/14	AQ	Ground Water	MW181C (259.5)
JB59893-18	02/11/14	08:27 BR	02/14/14	AQ	Ground Water	MW181C (284.5)
JB59893-19	02/11/14	08:29 BR	02/14/14	AQ	Ground Water	MW181C (291)
JB59893-20	02/11/14	09:40 BR	02/14/14	AQ	Ground Water	MW177 (130)
JB59893-21	02/11/14	09:42 BR	02/14/14	AQ	Ground Water	MW177 (143)
JB59893-22	02/11/14	09:44 BR	02/14/14	AQ	Ground Water	MW177 (220)
JB59893-23	02/11/14	09:46 BR	02/14/14	AQ	Ground Water	MW177 (228)
JB59893-24	02/11/14	09:48 BR	02/14/14	AQ	Ground Water	MW177 (236)
JB59893-25	02/14/14	11:15 BR	02/14/14	AQ	Ground Water	MW091D
JB59893-26	02/14/14	10:30 BR	02/14/14	AQ	Ground Water	MW073C (AP)



Sample Summary (continued)

ExxonMobil Corporation

Job No: JB59893

**GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO#4410181426 80021012 0008**

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB59893-27	02/14/14	10:40 BR	02/14/14	AQ	Ground Water	MW073C (BP)
JB59893-28	02/12/14	11:15 BR	02/14/14	AQ	Ground Water	MW179C (HS-S)
JB59893-29	02/12/14	11:20 BR	02/14/14	AQ	Ground Water	MW179C (HS-D)
JB59893-30	02/12/14	13:50 BR	02/14/14	AQ	Ground Water	MW176CC (HS)
JB59893-31	02/12/14	13:50 BR	02/14/14	AQ	Trip Blank Water	TRIP BLANK JW1

Summary of Hits

Job Number: JB59893
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 02/11/14 thru 02/14/14

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

JB59893-1 MW054C (HS-D)

Benzene	188	100	28	ug/l	SW846 8260B
Toluene	405	100	44	ug/l	SW846 8260B
Ethylbenzene	31.2 J	100	21	ug/l	SW846 8260B
Xylene (total)	149	100	19	ug/l	SW846 8260B
Methyl Tert Butyl Ether	22300	500	140	ug/l	SW846 8260B
Tert Butyl Alcohol	1690 J	2500	190	ug/l	SW846 8260B
Di-Isopropyl ether	75.4 J	500	24	ug/l	SW846 8260B
tert-Amyl Methyl Ether	1540	500	20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	314 J	500	25	ug/l	SW846 8260B

JB59893-2 MW036C (HS-S)

Methyl Tert Butyl Ether	1.7	1.0	0.29	ug/l	SW846 8260B
-------------------------	-----	-----	------	------	-------------

JB59893-3 MW036C (HS-D)

Methyl Tert Butyl Ether	1.7	1.0	0.29	ug/l	SW846 8260B
-------------------------	-----	-----	------	------	-------------

JB59893-4 MW171C (HS-S)

Methyl Tert Butyl Ether	1.4	1.0	0.29	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	0.82 J	5.0	0.25	ug/l	SW846 8260B

JB59893-5 MW171C (HS-D)

Methyl Tert Butyl Ether	0.82 J	1.0	0.29	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	0.33 J	5.0	0.25	ug/l	SW846 8260B

JB59893-6 MW135C (HS-S)

Toluene	0.61 J	1.0	0.44	ug/l	SW846 8260B
---------	--------	-----	------	------	-------------

JB59893-7 MW135C (HS-D)

Toluene	0.57 J	1.0	0.44	ug/l	SW846 8260B
---------	--------	-----	------	------	-------------

JB59893-8 MW131C (HS-S)

No hits reported in this sample.

JB59893-9 MW131C (HS-D)

No hits reported in this sample.

Summary of Hits

Job Number: JB59893
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 02/11/14 thru 02/14/14

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

JB59893-10 MW188D (AP)

Toluene	0.97 J	1.0	0.44	ug/l	SW846 8260B
Methyl Tert Butyl Ether	1.8	1.0	0.29	ug/l	SW846 8260B

JB59893-11 MW188D (BP)

Toluene	1.8	1.0	0.44	ug/l	SW846 8260B
Methyl Tert Butyl Ether	20.9	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether	1.5 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	0.37 J	5.0	0.25	ug/l	SW846 8260B

JB59893-12 MW181C (126)

Methyl Tert Butyl Ether	11.5	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether	0.66 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	0.73 J	5.0	0.25	ug/l	SW846 8260B

JB59893-13 MW181C (179)

Methyl Tert Butyl Ether	17.0	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether	1.2 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	0.88 J	5.0	0.25	ug/l	SW846 8260B

JB59893-14 MW181C (187)

Methyl Tert Butyl Ether	16.4	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether	1.1 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	0.78 J	5.0	0.25	ug/l	SW846 8260B

JB59893-15 MW181C (215)

Methyl Tert Butyl Ether	15.0	1.0	0.29	ug/l	SW846 8260B
Di-Isopropyl ether	0.26 J	5.0	0.24	ug/l	SW846 8260B
tert-Amyl Methyl Ether	0.94 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	0.80 J	5.0	0.25	ug/l	SW846 8260B

JB59893-16 MW181C (221)

Methyl Tert Butyl Ether	16.6	1.0	0.29	ug/l	SW846 8260B
Di-Isopropyl ether	0.25 J	5.0	0.24	ug/l	SW846 8260B
tert-Amyl Methyl Ether	1.1 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	0.89 J	5.0	0.25	ug/l	SW846 8260B

Summary of Hits

Job Number: JB59893
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 02/11/14 thru 02/14/14

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

JB59893-17 MW181C (259.5)

Methyl Tert Butyl Ether	17.0	1.0	0.29	ug/l	SW846 8260B
Di-Isopropyl ether	0.28 J	5.0	0.24	ug/l	SW846 8260B
tert-Amyl Methyl Ether	1.1 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	0.87 J	5.0	0.25	ug/l	SW846 8260B

JB59893-18 MW181C (284.5)

Methyl Tert Butyl Ether	13.7	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether	0.97 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	0.77 J	5.0	0.25	ug/l	SW846 8260B

JB59893-19 MW181C (291)

Methyl Tert Butyl Ether	14.2	1.0	0.29	ug/l	SW846 8260B
Di-Isopropyl ether	0.25 J	5.0	0.24	ug/l	SW846 8260B
tert-Amyl Methyl Ether	0.94 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	0.73 J	5.0	0.25	ug/l	SW846 8260B

JB59893-20 MW177 (130)

Methyl Tert Butyl Ether	1.9	1.0	0.29	ug/l	SW846 8260B
-------------------------	-----	-----	------	------	-------------

JB59893-21 MW177 (143)

No hits reported in this sample.

JB59893-22 MW177 (220)

Methyl Tert Butyl Ether	0.31 J	1.0	0.29	ug/l	SW846 8260B
-------------------------	--------	-----	------	------	-------------

JB59893-23 MW177 (228)

Methyl Tert Butyl Ether	0.29 J	1.0	0.29	ug/l	SW846 8260B
-------------------------	--------	-----	------	------	-------------

JB59893-24 MW177 (236)

Methyl Tert Butyl Ether	0.36 J	1.0	0.29	ug/l	SW846 8260B
-------------------------	--------	-----	------	------	-------------

JB59893-25 MW091D

No hits reported in this sample.

Summary of Hits

Job Number: JB59893
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 02/11/14 thru 02/14/14

Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
---------------	------------------	--------------------	----	-----	-------	--------

JB59893-26 MW073C (AP)

Benzene	21.5	1.0	0.28	ug/l	SW846 8260B
Toluene	20.2	1.0	0.44	ug/l	SW846 8260B
Ethylbenzene	4.9	1.0	0.21	ug/l	SW846 8260B
Xylene (total)	10.1	1.0	0.19	ug/l	SW846 8260B
Methyl Tert Butyl Ether	2810	50	14	ug/l	SW846 8260B
Tert Butyl Alcohol	1990	250	19	ug/l	SW846 8260B
Di-Isopropyl ether	17.2	5.0	0.24	ug/l	SW846 8260B
tert-Amyl Methyl Ether	245	50	2.0	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	73.9	5.0	0.25	ug/l	SW846 8260B

JB59893-27 MW073C (BP)

Benzene	5.5	1.0	0.28	ug/l	SW846 8260B
Toluene	6.7	1.0	0.44	ug/l	SW846 8260B
Ethylbenzene	1.6	1.0	0.21	ug/l	SW846 8260B
Xylene (total)	3.0	1.0	0.19	ug/l	SW846 8260B
Methyl Tert Butyl Ether	1930	10	2.9	ug/l	SW846 8260B
Tert Butyl Alcohol	1380	250	19	ug/l	SW846 8260B
Di-Isopropyl ether	10.3	5.0	0.24	ug/l	SW846 8260B
tert-Amyl Methyl Ether	162	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	47.0	5.0	0.25	ug/l	SW846 8260B

JB59893-28 MW179C (HS-S)

Methyl Tert Butyl Ether	16.6	1.0	0.29	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	3.1 J	5.0	0.25	ug/l	SW846 8260B

JB59893-29 MW179C (HS-D)

Methyl Tert Butyl Ether	41.0	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether	0.46 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	4.9 J	5.0	0.25	ug/l	SW846 8260B

JB59893-30 MW176CC (HS)

Methyl Tert Butyl Ether	6.5	1.0	0.29	ug/l	SW846 8260B
-------------------------	-----	-----	------	------	-------------

JB59893-31 TRIP BLANK JW1

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

3.1
3

Client Sample ID: MW054C (HS-D)	
Lab Sample ID: JB59893-1	Date Sampled: 02/11/14
Matrix: AQ - Ground Water	Date Received: 02/14/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180813.D	100	02/20/14	VC	n/a	n/a	VS7445
Run #2	S180814.D	500	02/20/14	VC	n/a	n/a	VS7445

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	188	100	28	ug/l	
108-88-3	Toluene	405	100	44	ug/l	
100-41-4	Ethylbenzene	31.2	100	21	ug/l	J
1330-20-7	Xylene (total)	149	100	19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	22300 ^a	500	140	ug/l	
75-65-0	Tert Butyl Alcohol	1690	2500	190	ug/l	J
108-20-3	Di-Isopropyl ether	75.4	500	24	ug/l	J
994-05-8	tert-Amyl Methyl Ether	1540	500	20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	314	500	25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%	105%	79-117%
17060-07-0	1,2-Dichloroethane-D4	103%	100%	72-123%
2037-26-5	Toluene-D8	108%	107%	82-118%
460-00-4	4-Bromofluorobenzene	104%	107%	75-118%

(a) Result is from Run# 2

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

Report of Analysis

32
3

Client Sample ID: MW036C (HS-S)	
Lab Sample ID: JB59893-2	Date Sampled: 02/12/14
Matrix: AQ - Ground Water	Date Received: 02/14/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180791.D	1	02/19/14	VC	n/a	n/a	VS7445
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.7	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		79-117%
17060-07-0	1,2-Dichloroethane-D4	105%		72-123%
2037-26-5	Toluene-D8	109%		82-118%
460-00-4	4-Bromofluorobenzene	111%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW036C (HS-D)	
Lab Sample ID: JB59893-3	Date Sampled: 02/12/14
Matrix: AQ - Ground Water	Date Received: 02/14/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180792.D	1	02/19/14	VC	n/a	n/a	VS7445
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.7	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		79-117%
17060-07-0	1,2-Dichloroethane-D4	105%		72-123%
2037-26-5	Toluene-D8	109%		82-118%
460-00-4	4-Bromofluorobenzene	109%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW171C (HS-S)		
Lab Sample ID: JB59893-4		Date Sampled: 02/11/14
Matrix: AQ - Ground Water		Date Received: 02/14/14
Method: SW846 8260B		Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180797.D	1	02/19/14	VC	n/a	n/a	VS7445
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.4	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	0.82	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		79-117%
17060-07-0	1,2-Dichloroethane-D4	100%		72-123%
2037-26-5	Toluene-D8	112%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

3.5
3

Client Sample ID:	MW171C (HS-D)	Date Sampled:	02/11/14
Lab Sample ID:	JB59893-5	Date Received:	02/14/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180798.D	1	02/19/14	VC	n/a	n/a	VS7445
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.82	1.0	0.29	ug/l	J
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	0.33	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		79-117%
17060-07-0	1,2-Dichloroethane-D4	105%		72-123%
2037-26-5	Toluene-D8	107%		82-118%
460-00-4	4-Bromofluorobenzene	107%		75-118%

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

Report of Analysis

3.6
3

Client Sample ID: MW135C (HS-S)	
Lab Sample ID: JB59893-6	Date Sampled: 02/12/14
Matrix: AQ - Ground Water	Date Received: 02/14/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180799.D	1	02/19/14	VC	n/a	n/a	VS7445
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	0.61	1.0	0.44	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		79-117%
17060-07-0	1,2-Dichloroethane-D4	104%		72-123%
2037-26-5	Toluene-D8	110%		82-118%
460-00-4	4-Bromofluorobenzene	107%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW135C (HS-D)		
Lab Sample ID: JB59893-7		Date Sampled: 02/12/14
Matrix: AQ - Ground Water		Date Received: 02/14/14
Method: SW846 8260B		Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180800.D	1	02/19/14	VC	n/a	n/a	VS7445
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	0.57	1.0	0.44	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		79-117%
17060-07-0	1,2-Dichloroethane-D4	104%		72-123%
2037-26-5	Toluene-D8	108%		82-118%
460-00-4	4-Bromofluorobenzene	108%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW131C (HS-S)	
Lab Sample ID: JB59893-8	Date Sampled: 02/12/14
Matrix: AQ - Ground Water	Date Received: 02/14/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180801.D	1	02/19/14	VC	n/a	n/a	VS7445
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		79-117%
17060-07-0	1,2-Dichloroethane-D4	104%		72-123%
2037-26-5	Toluene-D8	106%		82-118%
460-00-4	4-Bromofluorobenzene	110%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW131C (HS-D)		
Lab Sample ID: JB59893-9		Date Sampled: 02/12/14
Matrix: AQ - Ground Water		Date Received: 02/14/14
Method: SW846 8260B		Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180802.D	1	02/19/14	VC	n/a	n/a	VS7445
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		79-117%
17060-07-0	1,2-Dichloroethane-D4	103%		72-123%
2037-26-5	Toluene-D8	108%		82-118%
460-00-4	4-Bromofluorobenzene	109%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW188D (AP)		
Lab Sample ID: JB59893-10		Date Sampled: 02/12/14
Matrix: AQ - Ground Water		Date Received: 02/14/14
Method: SW846 8260B		Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180803.D	1	02/19/14	VC	n/a	n/a	VS7445
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	0.97	1.0	0.44	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.8	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		79-117%
17060-07-0	1,2-Dichloroethane-D4	107%		72-123%
2037-26-5	Toluene-D8	108%		82-118%
460-00-4	4-Bromofluorobenzene	102%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW188D (BP)		Date Sampled: 02/12/14
Lab Sample ID: JB59893-11		Date Received: 02/14/14
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180804.D	1	02/19/14	VC	n/a	n/a	VS7445
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	1.8	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	20.9	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	1.5	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.37	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		79-117%
17060-07-0	1,2-Dichloroethane-D4	105%		72-123%
2037-26-5	Toluene-D8	113%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

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

Report of Analysis

Client Sample ID: MW181C (126)		
Lab Sample ID: JB59893-12		Date Sampled: 02/11/14
Matrix: AQ - Ground Water		Date Received: 02/14/14
Method: SW846 8260B		Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180805.D	1	02/19/14	VC	n/a	n/a	VS7445
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	11.5	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	0.66	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.73	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		79-117%
17060-07-0	1,2-Dichloroethane-D4	107%		72-123%
2037-26-5	Toluene-D8	110%		82-118%
460-00-4	4-Bromofluorobenzene	108%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW181C (179)	
Lab Sample ID: JB59893-13	Date Sampled: 02/11/14
Matrix: AQ - Ground Water	Date Received: 02/14/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180806.D	1	02/19/14	VC	n/a	n/a	VS7445
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	17.0	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	1.2	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.88	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		79-117%
17060-07-0	1,2-Dichloroethane-D4	102%		72-123%
2037-26-5	Toluene-D8	107%		82-118%
460-00-4	4-Bromofluorobenzene	108%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW181C (187)	Date Sampled: 02/11/14
Lab Sample ID: JB59893-14	Date Received: 02/14/14
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180807.D	1	02/19/14	VC	n/a	n/a	VS7445
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	16.4	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	1.1	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.78	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		79-117%
17060-07-0	1,2-Dichloroethane-D4	104%		72-123%
2037-26-5	Toluene-D8	106%		82-118%
460-00-4	4-Bromofluorobenzene	105%		75-118%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW181C (215)		
Lab Sample ID: JB59893-15		Date Sampled: 02/11/14
Matrix: AQ - Ground Water		Date Received: 02/14/14
Method: SW846 8260B		Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180808.D	1	02/19/14	VC	n/a	n/a	VS7445
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	15.0	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	0.26	5.0	0.24	ug/l	J
994-05-8	tert-Amyl Methyl Ether	0.94	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.80	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		79-117%
17060-07-0	1,2-Dichloroethane-D4	104%		72-123%
2037-26-5	Toluene-D8	107%		82-118%
460-00-4	4-Bromofluorobenzene	110%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW181C (221)	
Lab Sample ID: JB59893-16	Date Sampled: 02/11/14
Matrix: AQ - Ground Water	Date Received: 02/14/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180809.D	1	02/20/14	VC	n/a	n/a	VS7445
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	16.6	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	0.25	5.0	0.24	ug/l	J
994-05-8	tert-Amyl Methyl Ether	1.1	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.89	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		79-117%
17060-07-0	1,2-Dichloroethane-D4	105%		72-123%
2037-26-5	Toluene-D8	107%		82-118%
460-00-4	4-Bromofluorobenzene	104%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW181C (259.5)	Date Sampled: 02/11/14
Lab Sample ID: JB59893-17	Date Received: 02/14/14
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180810.D	1	02/20/14	VC	n/a	n/a	VS7445
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	17.0	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	0.28	5.0	0.24	ug/l	J
994-05-8	tert-Amyl Methyl Ether	1.1	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.87	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		79-117%
17060-07-0	1,2-Dichloroethane-D4	102%		72-123%
2037-26-5	Toluene-D8	106%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW181C (284.5)	
Lab Sample ID: JB59893-18	Date Sampled: 02/11/14
Matrix: AQ - Ground Water	Date Received: 02/14/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180811.D	1	02/20/14	VC	n/a	n/a	VS7445
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	13.7	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	0.97	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.77	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		79-117%
17060-07-0	1,2-Dichloroethane-D4	102%		72-123%
2037-26-5	Toluene-D8	109%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW181C (291)	
Lab Sample ID: JB59893-19	Date Sampled: 02/11/14
Matrix: AQ - Ground Water	Date Received: 02/14/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180812.D	1	02/20/14	VC	n/a	n/a	VS7445
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	14.2	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	0.25	5.0	0.24	ug/l	J
994-05-8	tert-Amyl Methyl Ether	0.94	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.73	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		79-117%
17060-07-0	1,2-Dichloroethane-D4	103%		72-123%
2037-26-5	Toluene-D8	109%		82-118%
460-00-4	4-Bromofluorobenzene	106%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW177 (130)	Date Sampled:	02/11/14
Lab Sample ID:	JB59893-20	Date Received:	02/14/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180894.D	1	02/21/14	VC	n/a	n/a	VS7449
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.9	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-117%
17060-07-0	1,2-Dichloroethane-D4	105%		72-123%
2037-26-5	Toluene-D8	114%		82-118%
460-00-4	4-Bromofluorobenzene	113%		75-118%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW177 (143)		
Lab Sample ID: JB59893-21		Date Sampled: 02/11/14
Matrix: AQ - Ground Water		Date Received: 02/14/14
Method: SW846 8260B		Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180858.D	1	02/20/14	VC	n/a	n/a	VS7447
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		79-117%
17060-07-0	1,2-Dichloroethane-D4	106%		72-123%
2037-26-5	Toluene-D8	113%		82-118%
460-00-4	4-Bromofluorobenzene	112%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW177 (220)		
Lab Sample ID: JB59893-22		Date Sampled: 02/11/14
Matrix: AQ - Ground Water		Date Received: 02/14/14
Method: SW846 8260B		Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180859.D	1	02/20/14	VC	n/a	n/a	VS7447
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.31	1.0	0.29	ug/l	J
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		79-117%
17060-07-0	1,2-Dichloroethane-D4	107%		72-123%
2037-26-5	Toluene-D8	109%		82-118%
460-00-4	4-Bromofluorobenzene	114%		75-118%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW177 (228)		
Lab Sample ID: JB59893-23		Date Sampled: 02/11/14
Matrix: AQ - Ground Water		Date Received: 02/14/14
Method: SW846 8260B		Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180860.D	1	02/20/14	VC	n/a	n/a	VS7447
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.29	1.0	0.29	ug/l	J
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		79-117%
17060-07-0	1,2-Dichloroethane-D4	107%		72-123%
2037-26-5	Toluene-D8	109%		82-118%
460-00-4	4-Bromofluorobenzene	113%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW177 (236)	
Lab Sample ID: JB59893-24	Date Sampled: 02/11/14
Matrix: AQ - Ground Water	Date Received: 02/14/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180861.D	1	02/20/14	VC	n/a	n/a	VS7447
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.36	1.0	0.29	ug/l	J
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		79-117%
17060-07-0	1,2-Dichloroethane-D4	108%		72-123%
2037-26-5	Toluene-D8	113%		82-118%
460-00-4	4-Bromofluorobenzene	114%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW091D		
Lab Sample ID: JB59893-25		Date Sampled: 02/14/14
Matrix: AQ - Ground Water		Date Received: 02/14/14
Method: SW846 8260B		Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180862.D	1	02/20/14	VC	n/a	n/a	VS7447
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		79-117%
17060-07-0	1,2-Dichloroethane-D4	107%		72-123%
2037-26-5	Toluene-D8	107%		82-118%
460-00-4	4-Bromofluorobenzene	112%		75-118%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW073C (AP)	
Lab Sample ID: JB59893-26	Date Sampled: 02/14/14
Matrix: AQ - Ground Water	Date Received: 02/14/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180853.D	1	02/20/14	VC	n/a	n/a	VS7447
Run #2	S180854.D	10	02/20/14	VC	n/a	n/a	VS7447
Run #3	S180904.D	50	02/21/14	VC	n/a	n/a	VS7449

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml
Run #3	5.0 ml

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	21.5	1.0	0.28	ug/l	
108-88-3	Toluene	20.2	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	4.9	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	10.1	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2810 ^a	50	14	ug/l	
75-65-0	Tert Butyl Alcohol	1990 ^b	250	19	ug/l	
108-20-3	Di-Isopropyl ether	17.2	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	245 ^b	50	2.0	ug/l	
637-92-3	tert-Butyl Ethyl Ether	73.9	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
1868-53-7	Dibromofluoromethane	107%	110%	104%	79-117%
17060-07-0	1,2-Dichloroethane-D4	106%	108%	97%	72-123%
2037-26-5	Toluene-D8	113%	113%	109%	82-118%
460-00-4	4-Bromofluorobenzene	111%	113%	111%	75-118%

- (a) Result is from Run# 3
- (b) Result is from Run# 2

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

Report of Analysis

Client Sample ID: MW073C (BP)		Date Sampled: 02/14/14
Lab Sample ID: JB59893-27		Date Received: 02/14/14
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180855.D	1	02/20/14	VC	n/a	n/a	VS7447
Run #2	S180856.D	10	02/20/14	VC	n/a	n/a	VS7447

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	5.5	1.0	0.28	ug/l	
108-88-3	Toluene	6.7	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	1.6	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	3.0	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1930 ^a	10	2.9	ug/l	
75-65-0	Tert Butyl Alcohol	1380 ^a	250	19	ug/l	
108-20-3	Di-Isopropyl ether	10.3	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	162	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	47.0	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%	110%	79-117%
17060-07-0	1,2-Dichloroethane-D4	106%	107%	72-123%
2037-26-5	Toluene-D8	115%	112%	82-118%
460-00-4	4-Bromofluorobenzene	113%	112%	75-118%

(a) Result is from Run# 2

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

Report of Analysis

Client Sample ID: MW179C (HS-S)	
Lab Sample ID: JB59893-28	Date Sampled: 02/12/14
Matrix: AQ - Ground Water	Date Received: 02/14/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180863.D	1	02/20/14	VC	n/a	n/a	VS7447
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	16.6	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	3.1	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		79-117%
17060-07-0	1,2-Dichloroethane-D4	108%		72-123%
2037-26-5	Toluene-D8	112%		82-118%
460-00-4	4-Bromofluorobenzene	114%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW179C (HS-D)		
Lab Sample ID: JB59893-29		Date Sampled: 02/12/14
Matrix: AQ - Ground Water		Date Received: 02/14/14
Method: SW846 8260B		Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180864.D	1	02/20/14	VC	n/a	n/a	VS7447
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	41.0	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	0.46	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	4.9	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		79-117%
17060-07-0	1,2-Dichloroethane-D4	109%		72-123%
2037-26-5	Toluene-D8	111%		82-118%
460-00-4	4-Bromofluorobenzene	114%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW176CC (HS)	
Lab Sample ID: JB59893-30	Date Sampled: 02/12/14
Matrix: AQ - Ground Water	Date Received: 02/14/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180865.D	1	02/20/14	VC	n/a	n/a	VS7447
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	6.5	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		79-117%
17060-07-0	1,2-Dichloroethane-D4	109%		72-123%
2037-26-5	Toluene-D8	113%		82-118%
460-00-4	4-Bromofluorobenzene	115%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANK JW1	
Lab Sample ID: JB59893-31	Date Sampled: 02/12/14
Matrix: AQ - Trip Blank Water	Date Received: 02/14/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S180796.D	1	02/19/14	VC	n/a	n/a	VS7445
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-117%
17060-07-0	1,2-Dichloroethane-D4	97%		72-123%
2037-26-5	Toluene-D8	106%		82-118%
460-00-4	4-Bromofluorobenzene	105%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



GW
WTB

CHAIN OF CUSTODY- ExxonMobil Projects

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #
Accutest Quote #
Bottle Order Control #
Accutest Job # **JB59893**

Client / Reporting Information		SITE NAME - Provide Site Name for Retail or AFE Number for Major Projects										Requested Analysis (see TEST CODE sheet)										Matrix Codes
Company Name Kleinfelder		Retail Project (Site Name) Exxon - Phoenix					ExxonMobil Environmental Services Co.					DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank										LAB USE ONLY
Street Address 1340 Charwood Road Ste. 1		Major Project (AFE) 28077					If Project Is Direct Bill to Consultant															
City State Zip Hanover, MD 21076		Project Name 14258 Jarrettsville Pike					Company Name															
Project Contact Sean Rochford, Stacey Schiding		City State Phoenix MD					Street Address															
Phone # Brand Rodenberg 410-850-0404		ExxonMobil Manager John Hoban					City State Zip					MTBE, BTEX, ETBE, TAME, DIFE, TBA by 6290B VZBRNDVVO										V381 V380
Sampler(s) Name(s) Brand Rodenberg		ExxonMobil Purchase Order #					Attention: PO#															
Field ID / Point of Collection		MECH/DI Vial #	Collection		Date	Time	Sampled by	Matrix	# of bottles	HCl	NH ₄ H	HNO ₃	H ₂ SO ₄	NONE	DI Vial	MECH	ENCORE	LAB USE ONLY				
MW054C(HS-D)									3	X												
-1 MW054C(HS-D)					2/11/14	1200	BR	GW	3	X								V380				
Turnaround Time (Business days)		40934										Data Deliverable Information										Comments / Special Instructions
<input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> 8 Day RUSH <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY		Approved By (Accutest PM): / Date:					<input checked="" type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> NYASP Category A <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NYASP Category B <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> State Forms <input type="checkbox"/> NJ Reduced <input type="checkbox"/> EDD Format <input type="checkbox"/> Commercial "C" <input type="checkbox"/> Other _____					Commercial "A" = Results Only Commercial "B" = Results + QC Summary NJ Reduced = Results + QC Summary + Partial Raw data										
Emergency & Rush TIA data available VIA Lablink		Sample Custody must be documented below each time samples change possession, including courier delivery.																				
Relinquished by Sampler:		Date Time: 2-11-14			Received By: [Signature]			Relinquished by:			Date Time: 2-14-14			Received By: [Signature]			Date Time: 1800			Received By: [Signature]		
Relinquished by Sampler:		Date Time:			Received By:			Relinquished by:			Date Time:			Received By:			Date Time:			Received By:		
Relinquished by:		Date Time:			Received By:			Custody Seal #			<input type="checkbox"/> Intact Preserved where applicable <input type="checkbox"/> Not Intact			On Ice <input checked="" type="checkbox"/>			Cooler Temp. 112°F					
		Date Time:			Received By:			Custody Seal # NONE						On Ice <input type="checkbox"/>			Cooler Temp. 58°F					

JB59893: Chain of Custody

Page 1 of 8



CHAIN OF CUSTODY- ExxonMobil Projects

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB59893

Client / Reporting Information		SITE NAME - Provide Site Name for Retail or AFE Number for Major Projects				Requested Analysis (see TEST CODE sheet)												Matrix Codes
Company Name Kleinofelder		Retail Project (Site Name) Exxon - Phoenix				<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">82605- BTEX + Fuel Components</div> <div style="font-size: 8px;"> DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank </div> </div>												ExxonMobil Environmental Services Co. If Project is Direct B/M to Consultant
Street Address 1340 Charwood Road Ste. 1		Major Project (AFE) 28877																
City, State, Zip Hanover, MD 21076		Project Name 14268 Jarrattville Pike																
Project Contact Stacey Schilling		City, State Phoenix MD																
Phone # 410-358-8484		ExxonMobil Manager John Hoban																
Fax # 410-358-0649		ExxonMobil Purchase Order # N/A																
Sampler(s) Name(s) Jessica Wern		Attention: PO#																
Turnaround Time (Business days)		Data Deliverable Information														Comments / Special Instructions		

<input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> 8 Day RUSH <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <small>Emergency & Rush TIA data available VIA Lablink</small>		Approved By (Accutest PR): / Date: _____		<input checked="" type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> NYASP Category A <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NYASP Category B <input type="checkbox"/> FULLT1 (Level 3-4) <input type="checkbox"/> State Farms <input type="checkbox"/> NJ Reduced <input type="checkbox"/> EDD Farmnet <input type="checkbox"/> Commercial "C" <input type="checkbox"/> Other _____ <small>Commercial "A" = Results Only Commercial "B" = Results + QC Summary NJ Reduced = Results + QC Summary + Partial Raw data</small>												Comments / Special Instructions
---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---------------------------------

Sample Custody must be documented below, each time samples change possession, including courier delivery.													
Retransmitted by Sampler:		Date Time:		Received By:		Date Time:		Retransmitted By:		Date Time:		Received By:	
1		2/12/14		[Signature]		2-14-14 12:10		[Signature]		4		[Signature]	
Retransmitted by Sampler:		Date Time:		Received By:		Date Time:		Retransmitted By:		Date Time:		Received By:	
3				3				3				3	
Retransmitted by Sampler:		Date Time:		Received By:		Date Time:		Retransmitted By:		Date Time:		Received By:	
5				5				5				5	





CHAIN OF CUSTODY- ExxonMobil Projects

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #
Bottle Order Control #
Accutest Quote #
Accutest Job # JB59893

Client / Reporting Information, SITE NAME - Provide Site Name for Retail or AFE Number for Major Projects, Requested Analysis (see TEST CODE sheet), Matrix Codes, Accutest Sample #, Field ID / Point of Collection, MECH/DI Val #, Date, Time, Sampled by, Matrix, # of bottles, HCl, NACH, HNO3, H2SO4, HNO2, DI Water, MEOH, ENCORE, LAB USE ONLY

Turnaround Time (Business days), Data Deliverable Information, Comments / Special Instructions, Approved By (Accutest PM) / Date, Commercial "A" (Level 1), Commercial "B" (Level 2), FULLT1 (Level 3+4), NJ Reduced, Commercial "C", NYASP Category A, NYASP Category B, State Forms, EDD Format, Other

Relinquished by Sampler, Date Time, Received By, Date Time, Relinquished by, Date Time, Received By, Date Time, Relinquished by, Date Time, Received By, Date Time, Custody Seal #, Intact, Not Intact, Preserved where applicable, On Ice, Cooler Temp.

4.1
4

JB59893: Chain of Custody

Page 4 of 8



CHAIN OF CUSTODY- ExxonMobil Projects

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #
Bottle Order Control #
Accutest Quote #
Accutest Job # JB59893

Client / Reporting Information
SITE NAME - Provide Site Name for Retail or AFE Number for Major Projects
Requested Analysis (see TEST CODE sheet)
Matrix Codes
Company Name: Kleinfelder
Retail Project (Site Name): Exxon - Phoenix
ExxonMobil Environmental Services Co.
Street Address: 1340 Charwood Road Ste. 1
Major Project (AFE): 28077
If Project is Direct Bill to Consultant
City: Hanover, MD
State: 21076
Project Name: 14258 Jarrettsville Pike
Company Name:
Project Contact: Sean Rochford, Stacey Schlding
E-mail:
City: Phoenix
State: MD
Street Address:
Phone #: 410-850-0404
ExxonMobil Manager: John Hoban
City:
State:
Zip:
Sampler(s) Name(s): Jessica Weon
ExxonMobil Purchase Order #:
Attention:
PO#:

Table with columns: Field ID / Point of Collection, MECH/DI Val #, Date, Time, Sampled by, Matrix, # of bottles, and various test codes (HCl, MECH, HNO3, H2SO4, HNO2, DI Water, MECH, ENCORE). Rows include MW047C(HS-S), MW047C(HS-D), MW179C(HS-S), MW179C(HS-D), MW180C(HS-S), MW480G(HS-D), MW176CC(HS), MW182(HS-S), MW182(HS-D), and Trip Blank Jwl.

Turnaround Time (Business days)
Data Deliverable Information
Comments / Special Instructions
Approved By (Accutest PM): / Date:
Commercial "A" (Level 1)
Commercial "B" (Level 2)
FULLT1 (Level 3+4)
NJ Reduced
Commercial "C"
Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Sample Custody must be documented below each time samples change possession/including courier delivery.
Relinquished by:
Date Time:
Received By:
Date Time:
Relinquished by:
Date Time:
Received By:
Date Time:
Relinquished by:
Date Time:
Received By:
Date Time:
Custody Seal #
Intact
Not Intact
Preserved where applicable
On Ice
Cooler Temp: 10.2

4.1
4

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB59893 **Client:** KLEINFELDER **Project:** EXXON PHOENIX 14258 JARRETTSVILLE PIKE
Date / Time Received: 2/14/2014 **Delivery Method:** Accutest Courier **Airbill #s:**

Cooler Temps (Initial/Adjusted): #1: (1.2/1.2): 0

<u>Cooler Security</u>		<u>Y or N</u>		<u>Y or N</u>	
1. Custody Seals Present:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Custody Seals Intact:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Cooler Temperature</u>		<u>Y or N</u>	
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers	1		

<u>Quality Control Preservation</u>			
	<u>Y</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. VOCs headspace free:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Documentation</u>		<u>Y or N</u>	
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Sample container label / COC agree:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

<u>Sample Integrity - Condition</u>		<u>Y or N</u>	
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Condition of sample:	Intact		

<u>Sample Integrity - Instructions</u>			
	<u>Y</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments SAMPLES - MONITORING WELL 047C (HS-S)/TIME: 10:30 AND MONITORING WELL 047C (HS-D)/TIME: 10:35 WERE NOT INCLUDED IN COOLER.



Sample Receipt Summary - Problem Resolution

Accutest Job Number: JB59893

Initiator: terryb

CSR: Michelle

Response Date: 2/17/2014

Response: Per Sean Rochford, these samples were not collected and should have been crossed off on the COC.

4.1

4

Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

PO#4410181426 80021012 0008

Accutest Job Number: JB60488

Sampling Date: 02/24/14

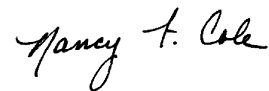
Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: 11



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



Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

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

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Summary of Hits	4
Section 3: Sample Results	5
3.1: JB60488-1: MW186D(AP)	6
3.2: JB60488-2: MW186D(BP)	7
3.3: JB60488-3: TRIP BLANK CB4	8
Section 4: Misc. Forms	9
4.1: Chain of Custody	10



Sample Summary

ExxonMobil Corporation

Job No: JB60488

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO#4410181426 80021012 0008

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB60488-1	02/24/14	16:20 CB	02/25/14	AQ	Ground Water	MW186D(AP)
JB60488-2	02/24/14	16:30 CB	02/25/14	AQ	Ground Water	MW186D(BP)
JB60488-3	02/24/14	16:30 CB	02/25/14	AQ	Trip Blank Water	TRIP BLANK CB4

Summary of Hits

Job Number: JB60488
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 02/24/14

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

JB60488-1 MW186D(AP)

Toluene	0.95 J	1.0	0.44	ug/l	SW846 8260B
---------	--------	-----	------	------	-------------

JB60488-2 MW186D(BP)

No hits reported in this sample.

JB60488-3 TRIP BLANK CB4

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

3.1
3

Client Sample ID: MW186D(AP)		Date Sampled: 02/24/14
Lab Sample ID: JB60488-1		Date Received: 02/25/14
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2V13214.D	1	02/28/14	MAH	n/a	n/a	V2V572
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	0.95	1.0	0.44	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		79-117%
17060-07-0	1,2-Dichloroethane-D4	95%		72-123%
2037-26-5	Toluene-D8	91%		82-118%
460-00-4	4-Bromofluorobenzene	112%		75-118%

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

Report of Analysis

32
3

Client Sample ID: MW186D(BP)	
Lab Sample ID: JB60488-2	Date Sampled: 02/24/14
Matrix: AQ - Ground Water	Date Received: 02/25/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2V13215.D	1	02/28/14	MAH	n/a	n/a	V2V572
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		79-117%
17060-07-0	1,2-Dichloroethane-D4	95%		72-123%
2037-26-5	Toluene-D8	92%		82-118%
460-00-4	4-Bromofluorobenzene	112%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANK CB4		
Lab Sample ID: JB60488-3		Date Sampled: 02/24/14
Matrix: AQ - Trip Blank Water		Date Received: 02/25/14
Method: SW846 8260B		Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2V13213.D	1	02/28/14	MAH	n/a	n/a	V2V572
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		79-117%
17060-07-0	1,2-Dichloroethane-D4	93%		72-123%
2037-26-5	Toluene-D8	91%		82-118%
460-00-4	4-Bromofluorobenzene	110%		75-118%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB60488 Client: _____ Project: _____
 Date / Time Received: 2/25/2014 Delivery Method: _____ Airbill #'s: _____

Cooler Temps (Initial/Adjusted): #1: (3.6/3.6); 0

<u>Cooler Security</u>	<u>Y</u>	<u>or</u>	<u>N</u>		<u>Y</u>	<u>or</u>	<u>N</u>
1. Custody Seals Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:	Intact		

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

Accutest Laboratories
V: 732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www.accutest.com

4.1
4

Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

PO#4410181426 80021012 0008

Accutest Job Number: JB61902

Sampling Date: 03/12/14

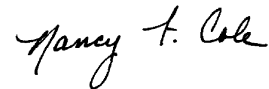
Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: **13**



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



Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

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

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Summary of Hits	4
Section 3: Sample Results	5
3.1: JB61902-1: MW073C(AP)	6
3.2: JB61902-2: MW073C(BP)	7
3.3: JB61902-3: PW3501(HS-S)	8
3.4: JB61902-4: PW3501(HS-D)	9
3.5: JB61902-5: TRIP BLANK JW1	10
Section 4: Misc. Forms	11
4.1: Chain of Custody	12



Sample Summary

ExxonMobil Corporation

Job No: JB61902

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO#4410181426 80021012 0008

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB61902-1	03/12/14	08:20 JW	03/13/14	AQ	Ground Water	MW073C(AP)
JB61902-2	03/12/14	08:30 JW	03/13/14	AQ	Ground Water	MW073C(BP)
JB61902-3	03/12/14	09:30 JW	03/13/14	AQ	Ground Water	PW3501(HS-S)
JB61902-4	03/12/14	09:35 JW	03/13/14	AQ	Ground Water	PW3501(HS-D)
JB61902-5	03/12/14	09:35 JW	03/13/14	AQ	Trip Blank Water	TRIP BLANK JW1

Summary of Hits

Job Number: JB61902
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 03/12/14

Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
---------------	------------------	--------------------	----	-----	-------	--------

JB61902-1 MW073C(AP)

Methyl Tert Butyl Ether	3700	50	14	ug/l	SW846 8260B
Tert Butyl Alcohol	1790	250	19	ug/l	SW846 8260B
Di-Isopropyl ether	22.7	20	2.4	ug/l	SW846 8260B
tert-Amyl Methyl Ether	314	50	2.0	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	89.7	50	2.5	ug/l	SW846 8260B

JB61902-2 MW073C(BP)

Ethylbenzene	1.1 J	2.5	1.0	ug/l	SW846 8260B
Xylene (total)	1.8 J	5.0	0.97	ug/l	SW846 8260B
Methyl Tert Butyl Ether	2140	25	7.1	ug/l	SW846 8260B
Tert Butyl Alcohol	1160	130	9.4	ug/l	SW846 8260B
Di-Isopropyl ether	12.0	10	1.2	ug/l	SW846 8260B
tert-Amyl Methyl Ether	188	25	1.0	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	49.8	25	1.2	ug/l	SW846 8260B

JB61902-3 PW3501(HS-S)

No hits reported in this sample.

JB61902-4 PW3501(HS-D)

No hits reported in this sample.

JB61902-5 TRIP BLANK JW1

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW073C(AP)		
Lab Sample ID: JB61902-1		Date Sampled: 03/12/14
Matrix: AQ - Ground Water		Date Received: 03/13/14
Method: SW846 8260B		Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A145230.D	10	03/18/14	TS	n/a	n/a	V2A6198
Run #2	2A145196.D	50	03/17/14	TS	n/a	n/a	V2A6196

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	2.8	ug/l	
108-88-3	Toluene	ND	10	4.4	ug/l	
100-41-4	Ethylbenzene	ND	5.0	2.1	ug/l	
1330-20-7	Xylene (total)	ND	10	1.9	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3700 ^a	50	14	ug/l	
75-65-0	Tert Butyl Alcohol	1790	250	19	ug/l	
108-20-3	Di-Isopropyl ether	22.7	20	2.4	ug/l	
994-05-8	tert-Amyl Methyl Ether	314	50	2.0	ug/l	
637-92-3	tert-Butyl Ethyl Ether	89.7	50	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%	97%	79-117%
17060-07-0	1,2-Dichloroethane-D4	87%	99%	72-123%
2037-26-5	Toluene-D8	88%	94%	82-118%
460-00-4	4-Bromofluorobenzene	97%	96%	75-118%

(a) Result is from Run# 2

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

Report of Analysis

Client Sample ID:	MW073C(BP)	Date Sampled:	03/12/14
Lab Sample ID:	JB61902-2	Date Received:	03/13/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A145234.D	5	03/18/14	TS	n/a	n/a	V2A6198
Run #2	2A145197.D	25	03/17/14	TS	n/a	n/a	V2A6196

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.5	1.4	ug/l	
108-88-3	Toluene	ND	5.0	2.2	ug/l	
100-41-4	Ethylbenzene	1.1	2.5	1.0	ug/l	J
1330-20-7	Xylene (total)	1.8	5.0	0.97	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	2140 ^a	25	7.1	ug/l	
75-65-0	Tert Butyl Alcohol	1160	130	9.4	ug/l	
108-20-3	Di-Isopropyl ether	12.0	10	1.2	ug/l	
994-05-8	tert-Amyl Methyl Ether	188	25	1.0	ug/l	
637-92-3	tert-Butyl Ethyl Ether	49.8	25	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%	96%	79-117%
17060-07-0	1,2-Dichloroethane-D4	86%	97%	72-123%
2037-26-5	Toluene-D8	88%	95%	82-118%
460-00-4	4-Bromofluorobenzene	97%	95%	75-118%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PW3501(HS-S)		
Lab Sample ID: JB61902-3		Date Sampled: 03/12/14
Matrix: AQ - Ground Water		Date Received: 03/13/14
Method: SW846 8260B		Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A145202.D	1	03/18/14	TS	n/a	n/a	V2A6196
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-117%
17060-07-0	1,2-Dichloroethane-D4	98%		72-123%
2037-26-5	Toluene-D8	94%		82-118%
460-00-4	4-Bromofluorobenzene	95%		75-118%

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

Report of Analysis

Client Sample ID: PW3501(HS-D)		Date Sampled: 03/12/14
Lab Sample ID: JB61902-4		Date Received: 03/13/14
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A145203.D	1	03/18/14	TS	n/a	n/a	V2A6196
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-117%
17060-07-0	1,2-Dichloroethane-D4	99%		72-123%
2037-26-5	Toluene-D8	94%		82-118%
460-00-4	4-Bromofluorobenzene	96%		75-118%

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

Report of Analysis

Client Sample ID:	TRIP BLANK JW1	Date Sampled:	03/12/14
Lab Sample ID:	JB61902-5	Date Received:	03/13/14
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A145187.D	1	03/17/14	TS	n/a	n/a	V2A6196
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-117%
17060-07-0	1,2-Dichloroethane-D4	100%		72-123%
2037-26-5	Toluene-D8	95%		82-118%
460-00-4	4-Bromofluorobenzene	96%		75-118%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB61902 **Client:** _____ **Project:** _____
Date / Time Received: 3/13/2014 **Delivery Method:** _____ **Airbill #s:** _____

Cooler Temps (Initial/Adjusted): #1: (2.8/2.8); 0

<u>Cooler Security</u>	<u>Y or N</u>				<u>Y or N</u>	
1. Custody Seals Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Custody Seals Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

<u>Cooler Temperature</u>	<u>Y or N</u>	
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Cooler temp verification:	IR Gun	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

Comments

<u>Sample Integrity - Documentation</u>	<u>Y or N</u>	
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y or N</u>	
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Condition of sample:	Intact	

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

4.1
4

Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

PO#4410181426 80021012 0008

Accutest Job Number: JB61907

Sampling Dates: 03/11/14 - 03/12/14

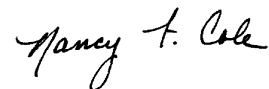
Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: 12



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



Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

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

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Summary of Hits	4
Section 3: Sample Results	5
3.1: JB61907-1: MW054C(HS-S)	6
3.2: JB61907-2: MW054C(HS-D)	7
3.3: JB61907-3: MW186D(AP)	8
3.4: JB61907-4: MW186D(BP)	9
Section 4: Misc. Forms	10
4.1: Chain of Custody	11



Sample Summary

ExxonMobil Corporation

Job No: JB61907

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO#4410181426 80021012 0008

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB61907-1	03/11/14	12:00 JW	03/13/14	AQ	Ground Water	MW054C(HS-S)
JB61907-2	03/11/14	12:05 JW	03/13/14	AQ	Ground Water	MW054C(HS-D)
JB61907-3	03/12/14	08:45 JW	03/13/14	AQ	Ground Water	MW186D(AP)
JB61907-4	03/12/14	08:50 JW	03/13/14	AQ	Ground Water	MW186D(BP)

Summary of Hits

Job Number: JB61907
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 03/11/14 thru 03/12/14

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

JB61907-1 MW054C(HS-S)

Benzene	66.6	13	7.0	ug/l	SW846 8260B
Toluene	116	25	11	ug/l	SW846 8260B
Ethylbenzene	8.0 J	13	5.2	ug/l	SW846 8260B
Xylene (total)	39.8	25	4.8	ug/l	SW846 8260B
Methyl Tert Butyl Ether	18400	1000	290	ug/l	SW846 8260B
Tert Butyl Alcohol	404 J	630	47	ug/l	SW846 8260B
Di-Isopropyl ether	58.2	50	6.0	ug/l	SW846 8260B
tert-Amyl Methyl Ether	1250	130	5.1	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	240	130	6.2	ug/l	SW846 8260B

JB61907-2 MW054C(HS-D)

Benzene	223	25	14	ug/l	SW846 8260B
Toluene	423	50	22	ug/l	SW846 8260B
Ethylbenzene	25.6	25	10	ug/l	SW846 8260B
Xylene (total)	130	50	9.7	ug/l	SW846 8260B
Methyl Tert Butyl Ether	19700	500	140	ug/l	SW846 8260B
Tert Butyl Alcohol	2570	1300	94	ug/l	SW846 8260B
Di-Isopropyl ether	74.5 J	100	12	ug/l	SW846 8260B
tert-Amyl Methyl Ether	1450	250	10	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	307	250	12	ug/l	SW846 8260B

JB61907-3 MW186D(AP)

No hits reported in this sample.

JB61907-4 MW186D(BP)

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

3.1
3

Client Sample ID: MW054C(HS-S)		Date Sampled: 03/11/14
Lab Sample ID: JB61907-1		Date Received: 03/13/14
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D46457.D	25	03/18/14	PR	n/a	n/a	V4D2077
Run #2	4D46456.D	1000	03/18/14	PR	n/a	n/a	V4D2077

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	66.6	13	7.0	ug/l	
108-88-3	Toluene	116	25	11	ug/l	
100-41-4	Ethylbenzene	8.0	13	5.2	ug/l	J
1330-20-7	Xylene (total)	39.8	25	4.8	ug/l	
1634-04-4	Methyl Tert Butyl Ether	18400 ^a	1000	290	ug/l	
75-65-0	Tert Butyl Alcohol	404	630	47	ug/l	J
108-20-3	Di-Isopropyl ether	58.2	50	6.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	1250	130	5.1	ug/l	
637-92-3	tert-Butyl Ethyl Ether	240	130	6.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%	96%	79-117%
17060-07-0	1,2-Dichloroethane-D4	91%	90%	72-123%
2037-26-5	Toluene-D8	95%	96%	82-118%
460-00-4	4-Bromofluorobenzene	100%	100%	75-118%

(a) Result is from Run# 2

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

Report of Analysis

Client Sample ID: MW054C(HS-D)		
Lab Sample ID: JB61907-2		Date Sampled: 03/11/14
Matrix: AQ - Ground Water		Date Received: 03/13/14
Method: SW846 8260B		Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D46454.D	50	03/18/14	PR	n/a	n/a	V4D2077
Run #2	4D46455.D	500	03/18/14	PR	n/a	n/a	V4D2077

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	223	25	14	ug/l	
108-88-3	Toluene	423	50	22	ug/l	
100-41-4	Ethylbenzene	25.6	25	10	ug/l	
1330-20-7	Xylene (total)	130	50	9.7	ug/l	
1634-04-4	Methyl Tert Butyl Ether	19700 ^a	500	140	ug/l	
75-65-0	Tert Butyl Alcohol	2570	1300	94	ug/l	
108-20-3	Di-Isopropyl ether	74.5	100	12	ug/l	J
994-05-8	tert-Amyl Methyl Ether	1450	250	10	ug/l	
637-92-3	tert-Butyl Ethyl Ether	307	250	12	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%	95%	79-117%
17060-07-0	1,2-Dichloroethane-D4	90%	90%	72-123%
2037-26-5	Toluene-D8	96%	96%	82-118%
460-00-4	4-Bromofluorobenzene	101%	100%	75-118%

(a) Result is from Run# 2

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

Report of Analysis

Client Sample ID: MW186D(AP)		Date Sampled: 03/12/14
Lab Sample ID: JB61907-3		Date Received: 03/13/14
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D46363.D	1	03/15/14	PR	n/a	n/a	V4D2073
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		79-117%
17060-07-0	1,2-Dichloroethane-D4	93%		72-123%
2037-26-5	Toluene-D8	95%		82-118%
460-00-4	4-Bromofluorobenzene	103%		75-118%

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

Report of Analysis

Client Sample ID: MW186D(BP)		
Lab Sample ID: JB61907-4		Date Sampled: 03/12/14
Matrix: AQ - Ground Water		Date Received: 03/13/14
Method: SW846 8260B		Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D46364.D	1	03/15/14	PR	n/a	n/a	V4D2073
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		79-117%
17060-07-0	1,2-Dichloroethane-D4	92%		72-123%
2037-26-5	Toluene-D8	96%		82-118%
460-00-4	4-Bromofluorobenzene	103%		75-118%

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



977
Ce
GW

CHAIN OF CUSTODY- ExxonMobil Projects

Accutest New Jersey (Mid Atlantic) Regional Lab
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB61907

Client / Reporting Information		SITE NAME - Provide Site Name for Retail or AFE Number for Major Projects										Requested Analysis (see TEST CODE sheet)										Matrix Codes
Company Name Kleinfelder		Retail Project (Site Name) Exxon - Phoenix										MTBE, BTEX, ETBE, TAME, DIPE, DIPE, TBA, IV, 02600 V03600/DV0										DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WIP - Wipe FB-Field Blank
Street Address 1340 Charwood Road Ste. 1		ExxonMobil Environmental Services Co.																				
City State Zip Hanover, MD 21076		Major Project (AFE) 28077																				
Project Contact Sean Rochford, Stacey Schiding		If Project is Direct Bill to Consultant Company Name																				
E-mail Sean.Rochford@kleinfelder.com		City State Phoenix MD																				
Phone # Brand Rodenberg 410-850-0404		ExxonMobil Manager John Hoban																				
Phone # Jessica Werner		City State Zip John Hoban																				
Sampler(s) Name(s)		ExxonMobil Purchase Order #																				
Attention: PO#																						
Field ID / Point of Collection		MEOH/DI Vial #	Collection			Matrix				Number of preserved Bottles										LAB USE ONLY		
			Date	Time	Sampled by		# of bottles	ACI	MEOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE							
1 MW054C(HS-S)			3/11/14	1000	JW	GW	3	X								X						
2 MW054C(HS-D)			3/11/14	1205	JW	GW	3	X								X						
3 MW186D(AP)			3/12/14	0845	JW	GW	3	X								X						
4 MW186D(BP)			3/12/14	0850	JW	GW	3	X								X						

4.1
4

Turnaround Time (Business days)		40934		Data Deliverable Information										Comments / Special Instructions									
<input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> 8 Day RUSH <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY Emergency & Rush T/A data available VIA Lablink		Approved By (Accutest PM): / Date:		<input checked="" type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> NYASP Category A <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NYASP Category B <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> State Forms <input type="checkbox"/> NJ Reduced <input type="checkbox"/> EDD Format <input type="checkbox"/> Commercial "C" <input type="checkbox"/> Other _____ Commercial "A" = Results Only Commercial "B" = Results + QC Summary NJ Reduced = Results + QC Summary + Partial Raw data																			

Sample Custody must be documented below each time samples change possession, including courier delivery.																	
Relinquished by: <i>[Signature]</i>		Date Time: 3/12/14		Received By: <i>[Signature]</i>		Date Time: 3-13-14		Relinquished by: <i>[Signature]</i>		Date Time: 3-13-14		Received By: <i>[Signature]</i>		Date Time: 3-13-14		Received By: <i>[Signature]</i>	
Relinquished by: <i>[Signature]</i>		Date Time: 3/12/14		Received By: <i>[Signature]</i>		Date Time: 3-13-14		Relinquished by: <i>[Signature]</i>		Date Time: 3-13-14		Received By: <i>[Signature]</i>		Date Time: 3-13-14		Received By: <i>[Signature]</i>	
Relinquished by: <i>[Signature]</i>		Date Time: 3/12/14		Received By: <i>[Signature]</i>		Date Time: 3-13-14		Relinquished by: <i>[Signature]</i>		Date Time: 3-13-14		Received By: <i>[Signature]</i>		Date Time: 3-13-14		Received By: <i>[Signature]</i>	
Custody Seal #		NONE		<input type="checkbox"/> Intact		Preserved where applicable		<input type="checkbox"/> On Ice		Cooler Temp.		2.5					

13093B

IRP (BP)

JB61907: Chain of Custody

Page 1 of 2



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB61907 **Client:** _____ **Project:** _____
Date / Time Received: 3/13/2014 **Delivery Method:** _____ **Airbill #s:** _____

Cooler Temps (Initial/Adjusted): #1: (2.8/2.8); 0

<u>Cooler Security</u>	<u>Y or N</u>		<u>Y or N</u>	
1. Custody Seals Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/> <input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y or N</u>	
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Cooler temp verification:	IR Gun	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

Comments

<u>Sample Integrity - Documentation</u>	<u>Y or N</u>	
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y or N</u>	
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Condition of sample:	Intact	

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

4.1
4

Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

PO#4410181426 80021012 0008

Accutest Job Number: JB64390

Sampling Dates: 04/08/14 - 04/09/14

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: 49



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

Nancy F. Cole

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

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

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Summary of Hits	6
Section 3: Sample Results	10
3.1: JB64390-1: MW171C(HS-S)	11
3.2: JB64390-2: MW171C(HS-D)	12
3.3: JB64390-3: MW135C(HS-S)	13
3.4: JB64390-4: MW135C(HS-D)	14
3.5: JB64390-5: MW048D(HS-S)	15
3.6: JB64390-6: MW048D(HS-D)	16
3.7: JB64390-7: MW131C(HS-S)	17
3.8: JB64390-8: MW131C(HS-D)	18
3.9: JB64390-9: MW188D(AP)	19
3.10: JB64390-10: MW188D(BP)	20
3.11: JB64390-11: MW047C(HS-S)	21
3.12: JB64390-12: MW047C(HS-D)	22
3.13: JB64390-13: MW176C(HS)	23
3.14: JB64390-14: MW182(HS-S)	24
3.15: JB64390-15: MW182(HS-D)	25
3.16: JB64390-16: MW036C(HS-S)	26
3.17: JB64390-17: MW036C(HS-D)	27
3.18: JB64390-18: PW3501(HS-S)	28
3.19: JB64390-19: PW3501(HS-D)	29
3.20: JB64390-20: MW179C(HS-S)	30
3.21: JB64390-21: MW179C(HS-D)	31
3.22: JB64390-22: MW180C(HS-S)	32
3.23: JB64390-23: MW180C(HS-D)	33
3.24: JB64390-24: MW073C(AP)	34
3.25: JB64390-25: MW073C(BP)	35
3.26: JB64390-26: TRIP BLANK JW1	36
3.27: JB64390-27: MW186D(AP)	37
3.28: JB64390-28: MW186D(BP)	38
3.29: JB64390-29: MW054C(HS-S)	39
3.30: JB64390-30: MW054C(HS-D)	40
3.31: JB64390-31: MW038C	41
Section 4: Misc. Forms	42
4.1: Chain of Custody	43



Sample Summary

ExxonMobil Corporation

Job No: JB64390

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO#4410181426 80021012 0008

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB64390-1	04/08/14	11:40 JW	04/10/14	AQ	Ground Water	MW171C(HS-S)
JB64390-2	04/08/14	11:45 JW	04/10/14	AQ	Ground Water	MW171C(HS-D)
JB64390-3	04/08/14	09:45 JW	04/10/14	AQ	Ground Water	MW135C(HS-S)
JB64390-4	04/08/14	09:50 JW	04/10/14	AQ	Ground Water	MW135C(HS-D)
JB64390-5	04/08/14	10:20 JW	04/10/14	AQ	Ground Water	MW048D(HS-S)
JB64390-6	04/08/14	10:25 JW	04/10/14	AQ	Ground Water	MW048D(HS-D)
JB64390-7	04/08/14	09:10 JW	04/10/14	AQ	Ground Water	MW131C(HS-S)
JB64390-8	04/08/14	09:15 JW	04/10/14	AQ	Ground Water	MW131C(HS-D)
JB64390-9	04/08/14	09:00 JW	04/10/14	AQ	Ground Water	MW188D(AP)
JB64390-10	04/08/14	09:05 JW	04/10/14	AQ	Ground Water	MW188D(BP)
JB64390-11	04/08/14	11:25 JW	04/10/14	AQ	Ground Water	MW047C(HS-S)
JB64390-12	04/08/14	11:30 JW	04/10/14	AQ	Ground Water	MW047C(HS-D)
JB64390-13	04/08/14	10:45 JW	04/10/14	AQ	Ground Water	MW176C(HS)



Sample Summary (continued)

ExxonMobil Corporation

Job No: JB64390

**GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO#4410181426 80021012 0008**

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB64390-14	04/08/14	11:00 JW	04/10/14	AQ	Ground Water	MW182(HS-S)
JB64390-15	04/08/14	11:05 JW	04/10/14	AQ	Ground Water	MW182(HS-D)
JB64390-16	04/09/14	12:10 JW	04/10/14	AQ	Ground Water	MW036C(HS-S)
JB64390-17	04/09/14	12:15 JW	04/10/14	AQ	Ground Water	MW036C(HS-D)
JB64390-18	04/09/14	11:15 JW	04/10/14	AQ	Ground Water	PW3501(HS-S)
JB64390-19	04/09/14	11:20 JW	04/10/14	AQ	Ground Water	PW3501(HS-D)
JB64390-20	04/09/14	11:00 JW	04/10/14	AQ	Ground Water	MW179C(HS-S)
JB64390-21	04/09/14	11:05 JW	04/10/14	AQ	Ground Water	MW179C(HS-D)
JB64390-22	04/09/14	10:40 JW	04/10/14	AQ	Ground Water	MW180C(HS-S)
JB64390-23	04/09/14	10:45 JW	04/10/14	AQ	Ground Water	MW180C(HS-D)
JB64390-24	04/08/14	08:25 JW	04/10/14	AQ	Ground Water	MW073C(AP)
JB64390-25	04/08/14	08:30 JW	04/10/14	AQ	Ground Water	MW073C(BP)
JB64390-26	04/09/14	12:15 JW	04/10/14	AQ	Trip Blank Water	TRIP BLANK JW1



Sample Summary (continued)

ExxonMobil Corporation

Job No: JB64390

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO#4410181426 80021012 0008

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB64390-27	04/08/14	08:45 JW	04/10/14	AQ	Ground Water	MW186D(AP)
JB64390-28	04/08/14	08:50 JW	04/10/14	AQ	Ground Water	MW186D(BP)
JB64390-29	04/08/14	12:00 JW	04/10/14	AQ	Ground Water	MW054C(HS-S)
JB64390-30	04/08/14	12:05 JW	04/10/14	AQ	Ground Water	MW054C(HS-D)
JB64390-31	04/08/14	14:00 JW	04/10/14	AQ	Ground Water	MW038C

Summary of Hits

Job Number: JB64390
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 04/08/14 thru 04/09/14

2

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB64390-1	MW171C(HS-S)					
Methyl Tert Butyl Ether		1.8	1.0	0.29	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.91 J	5.0	0.25	ug/l	SW846 8260B
JB64390-2	MW171C(HS-D)					
Methyl Tert Butyl Ether		1.1	1.0	0.29	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.52 J	5.0	0.25	ug/l	SW846 8260B
JB64390-3	MW135C(HS-S)					
No hits reported in this sample.						
JB64390-4	MW135C(HS-D)					
No hits reported in this sample.						
JB64390-5	MW048D(HS-S)					
No hits reported in this sample.						
JB64390-6	MW048D(HS-D)					
No hits reported in this sample.						
JB64390-7	MW131C(HS-S)					
No hits reported in this sample.						
JB64390-8	MW131C(HS-D)					
No hits reported in this sample.						
JB64390-9	MW188D(AP)					
Toluene		0.97 J	1.0	0.44	ug/l	SW846 8260B
Methyl Tert Butyl Ether		1.8	1.0	0.29	ug/l	SW846 8260B
JB64390-10	MW188D(BP)					
Toluene		3.0	1.0	0.44	ug/l	SW846 8260B
Xylene (total)		0.82 J	1.0	0.19	ug/l	SW846 8260B
Methyl Tert Butyl Ether		20.4	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether		1.5 J	5.0	0.20	ug/l	SW846 8260B

Summary of Hits

Job Number: JB64390
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 04/08/14 thru 04/09/14

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
tert-Butyl Ethyl Ether		0.38 J	5.0	0.25	ug/l	SW846 8260B
JB64390-11	MW047C(HS-S)					
Methyl Tert Butyl Ether		11.6	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether		0.67 J	5.0	0.20	ug/l	SW846 8260B
JB64390-12	MW047C(HS-D)					
Methyl Tert Butyl Ether		12.2	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether		0.73 J	5.0	0.20	ug/l	SW846 8260B
JB64390-13	MW176C(HS)					
Methyl Tert Butyl Ether		8.7	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether		0.26 J	5.0	0.20	ug/l	SW846 8260B
JB64390-14	MW182(HS-S)					
Methyl Tert Butyl Ether		4.0	1.0	0.29	ug/l	SW846 8260B
Di-Isopropyl ether		0.61 J	2.0	0.24	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		1.8 J	5.0	0.25	ug/l	SW846 8260B
JB64390-15	MW182(HS-D)					
Methyl Tert Butyl Ether		3.7	1.0	0.29	ug/l	SW846 8260B
Di-Isopropyl ether		0.60 J	2.0	0.24	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		1.7 J	5.0	0.25	ug/l	SW846 8260B
JB64390-16	MW036C(HS-S)					
Methyl Tert Butyl Ether		1.8	1.0	0.29	ug/l	SW846 8260B
JB64390-17	MW036C(HS-D)					
Methyl Tert Butyl Ether		2.0	1.0	0.29	ug/l	SW846 8260B
JB64390-18	PW3501(HS-S)					
No hits reported in this sample.						
JB64390-19	PW3501(HS-D)					
No hits reported in this sample.						

Summary of Hits

Job Number: JB64390
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 04/08/14 thru 04/09/14

2

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

JB64390-20 MW179C(HS-S)

Methyl Tert Butyl Ether	14.3	1.0	0.29	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	3.1 J	5.0	0.25	ug/l	SW846 8260B

JB64390-21 MW179C(HS-D)

Methyl Tert Butyl Ether	32.3	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether	0.38 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	4.3 J	5.0	0.25	ug/l	SW846 8260B

JB64390-22 MW180C(HS-S)

Methyl Tert Butyl Ether	9.8	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether	0.47 J	5.0	0.20	ug/l	SW846 8260B

JB64390-23 MW180C(HS-D)

Methyl Tert Butyl Ether	12.4	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether	0.53 J	5.0	0.20	ug/l	SW846 8260B

JB64390-24 MW073C(AP)

Methyl Tert Butyl Ether	3350	25	7.1	ug/l	SW846 8260B
Tert Butyl Alcohol	1710	630	47	ug/l	SW846 8260B
Di-Isopropyl ether	24.3 J	50	6.0	ug/l	SW846 8260B
tert-Amyl Methyl Ether	269	130	5.1	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	83.9 J	130	6.2	ug/l	SW846 8260B

JB64390-25 MW073C(BP)

Methyl Tert Butyl Ether	2210	20	5.7	ug/l	SW846 8260B
Tert Butyl Alcohol	1050	500	38	ug/l	SW846 8260B
Di-Isopropyl ether	10.6 J	40	4.8	ug/l	SW846 8260B
tert-Amyl Methyl Ether	160	100	4.1	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	45.0 J	100	4.9	ug/l	SW846 8260B

JB64390-26 TRIP BLANK JW1

No hits reported in this sample.

JB64390-27 MW186D(AP)

Benzene	0.28 J	0.50	0.28	ug/l	SW846 8260B
---------	--------	------	------	------	-------------

Summary of Hits

Job Number: JB64390
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 04/08/14 thru 04/09/14

Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
---------------	------------------	--------------------	----	-----	-------	--------

JB64390-28 MW186D(BP)

No hits reported in this sample.

JB64390-29 MW054C(HS-S)

Benzene	128	50	28	ug/l	SW846 8260B
Toluene	211	100	44	ug/l	SW846 8260B
Xylene (total)	77.4 J	100	19	ug/l	SW846 8260B
Methyl Tert Butyl Ether	21200	500	140	ug/l	SW846 8260B
Di-Isopropyl ether	90.1 J	200	24	ug/l	SW846 8260B
tert-Amyl Methyl Ether	1390	500	20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	318 J	500	25	ug/l	SW846 8260B

JB64390-30 MW054C(HS-D)

Benzene	236	10	5.6	ug/l	SW846 8260B
Toluene	398	20	8.9	ug/l	SW846 8260B
Ethylbenzene	29.0	10	4.2	ug/l	SW846 8260B
Xylene (total)	129	20	3.9	ug/l	SW846 8260B
Methyl Tert Butyl Ether	17700	200	57	ug/l	SW846 8260B
Tert Butyl Alcohol	2540	500	38	ug/l	SW846 8260B
Di-Isopropyl ether	93.8	40	4.8	ug/l	SW846 8260B
tert-Amyl Methyl Ether	1330	100	4.1	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	340	100	4.9	ug/l	SW846 8260B

JB64390-31 MW038C

Methyl Tert Butyl Ether	9.6	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether	0.59 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	0.27 J	5.0	0.25	ug/l	SW846 8260B

Sample Results

Report of Analysis

Report of Analysis

3.1
3

Client Sample ID: MW171C(HS-S)	Date Sampled: 04/08/14
Lab Sample ID: JB64390-1	Date Received: 04/10/14
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L260403.D	1	04/14/14	TR	n/a	n/a	VL6925
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.8	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	0.91	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		79-120%
17060-07-0	1,2-Dichloroethane-D4	107%		72-123%
2037-26-5	Toluene-D8	99%		78-119%
460-00-4	4-Bromofluorobenzene	101%		74-119%

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

Report of Analysis

32
3

Client Sample ID: MW171C(HS-D)	
Lab Sample ID: JB64390-2	Date Sampled: 04/08/14
Matrix: AQ - Ground Water	Date Received: 04/10/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L260404.D	1	04/14/14	TR	n/a	n/a	VL6925
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.1	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	0.52	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		79-120%
17060-07-0	1,2-Dichloroethane-D4	107%		72-123%
2037-26-5	Toluene-D8	104%		78-119%
460-00-4	4-Bromofluorobenzene	102%		74-119%

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

Report of Analysis

Client Sample ID: MW135C(HS-S)	
Lab Sample ID: JB64390-3	Date Sampled: 04/08/14
Matrix: AQ - Ground Water	Date Received: 04/10/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L260405.D	1	04/14/14	TR	n/a	n/a	VL6925
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-120%
17060-07-0	1,2-Dichloroethane-D4	108%		72-123%
2037-26-5	Toluene-D8	103%		78-119%
460-00-4	4-Bromofluorobenzene	108%		74-119%

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

Report of Analysis

3.4
3

Client Sample ID:	MW135C(HS-D)	Date Sampled:	04/08/14
Lab Sample ID:	JB64390-4	Date Received:	04/10/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L260406.D	1	04/14/14	TR	n/a	n/a	VL6925
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		79-120%
17060-07-0	1,2-Dichloroethane-D4	109%		72-123%
2037-26-5	Toluene-D8	101%		78-119%
460-00-4	4-Bromofluorobenzene	107%		74-119%

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

Report of Analysis

Client Sample ID:	MW048D(HS-S)	Date Sampled:	04/08/14
Lab Sample ID:	JB64390-5	Date Received:	04/10/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L260407.D	1	04/14/14	TR	n/a	n/a	VL6925
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-120%
17060-07-0	1,2-Dichloroethane-D4	110%		72-123%
2037-26-5	Toluene-D8	102%		78-119%
460-00-4	4-Bromofluorobenzene	103%		74-119%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW048D(HS-D)	
Lab Sample ID: JB64390-6	Date Sampled: 04/08/14
Matrix: AQ - Ground Water	Date Received: 04/10/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L260408.D	1	04/14/14	TR	n/a	n/a	VL6925
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		79-120%
17060-07-0	1,2-Dichloroethane-D4	108%		72-123%
2037-26-5	Toluene-D8	105%		78-119%
460-00-4	4-Bromofluorobenzene	106%		74-119%

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

Report of Analysis

Client Sample ID:	MW131C(HS-S)	Date Sampled:	04/08/14
Lab Sample ID:	JB64390-7	Date Received:	04/10/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L260409.D	1	04/14/14	TR	n/a	n/a	VL6925
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-120%
17060-07-0	1,2-Dichloroethane-D4	111%		72-123%
2037-26-5	Toluene-D8	104%		78-119%
460-00-4	4-Bromofluorobenzene	104%		74-119%

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

Report of Analysis

3.9
3

Client Sample ID: MW188D(AP)		Date Sampled: 04/08/14
Lab Sample ID: JB64390-9		Date Received: 04/10/14
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L260413.D	1	04/14/14	TR	n/a	n/a	VL6925
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	0.97	1.0	0.44	ug/l	J
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.8	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-120%
17060-07-0	1,2-Dichloroethane-D4	111%		72-123%
2037-26-5	Toluene-D8	102%		78-119%
460-00-4	4-Bromofluorobenzene	105%		74-119%

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

Report of Analysis

Client Sample ID: MW188D(BP)		
Lab Sample ID: JB64390-10		Date Sampled: 04/08/14
Matrix: AQ - Ground Water		Date Received: 04/10/14
Method: SW846 8260B		Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L260417.D	1	04/14/14	TR	n/a	n/a	VL6925
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	3.0	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	0.82	1.0	0.19	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	20.4	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	1.5	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.38	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		79-120%
17060-07-0	1,2-Dichloroethane-D4	115%		72-123%
2037-26-5	Toluene-D8	105%		78-119%
460-00-4	4-Bromofluorobenzene	110%		74-119%

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

Report of Analysis

Client Sample ID: MW047C(HS-S)	
Lab Sample ID: JB64390-11	Date Sampled: 04/08/14
Matrix: AQ - Ground Water	Date Received: 04/10/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L260416.D	1	04/14/14	TR	n/a	n/a	VL6925
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	11.6	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	0.67	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		79-120%
17060-07-0	1,2-Dichloroethane-D4	112%		72-123%
2037-26-5	Toluene-D8	104%		78-119%
460-00-4	4-Bromofluorobenzene	111%		74-119%

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

Report of Analysis

Client Sample ID: MW047C(HS-D)	
Lab Sample ID: JB64390-12	Date Sampled: 04/08/14
Matrix: AQ - Ground Water	Date Received: 04/10/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L260418.D	1	04/14/14	TR	n/a	n/a	VL6925
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	12.2	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	0.73	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		79-120%
17060-07-0	1,2-Dichloroethane-D4	112%		72-123%
2037-26-5	Toluene-D8	102%		78-119%
460-00-4	4-Bromofluorobenzene	103%		74-119%

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

Report of Analysis

Client Sample ID: MW176C(HS)		
Lab Sample ID: JB64390-13		Date Sampled: 04/08/14
Matrix: AQ - Ground Water		Date Received: 04/10/14
Method: SW846 8260B		Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L260419.D	1	04/14/14	TR	n/a	n/a	VL6925
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	8.7	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	0.26	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-120%
17060-07-0	1,2-Dichloroethane-D4	112%		72-123%
2037-26-5	Toluene-D8	103%		78-119%
460-00-4	4-Bromofluorobenzene	104%		74-119%

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

Report of Analysis

Client Sample ID: MW182(HS-S)		Date Sampled: 04/08/14
Lab Sample ID: JB64390-14		Date Received: 04/10/14
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L260420.D	1	04/14/14	TR	n/a	n/a	VL6925
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4.0	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	0.61	2.0	0.24	ug/l	J
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	1.8	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-120%
17060-07-0	1,2-Dichloroethane-D4	114%		72-123%
2037-26-5	Toluene-D8	104%		78-119%
460-00-4	4-Bromofluorobenzene	106%		74-119%

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

Report of Analysis

Client Sample ID: MW182(HS-D)		
Lab Sample ID: JB64390-15		Date Sampled: 04/08/14
Matrix: AQ - Ground Water		Date Received: 04/10/14
Method: SW846 8260B		Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L260421.D	1	04/15/14	TR	n/a	n/a	VL6925
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.7	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	0.60	2.0	0.24	ug/l	J
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	1.7	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		79-120%
17060-07-0	1,2-Dichloroethane-D4	115%		72-123%
2037-26-5	Toluene-D8	104%		78-119%
460-00-4	4-Bromofluorobenzene	105%		74-119%

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

Report of Analysis

Client Sample ID: MW036C(HS-S)		
Lab Sample ID: JB64390-16		Date Sampled: 04/09/14
Matrix: AQ - Ground Water		Date Received: 04/10/14
Method: SW846 8260B		Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L260422.D	1	04/15/14	TR	n/a	n/a	VL6925
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.8	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		79-120%
17060-07-0	1,2-Dichloroethane-D4	117%		72-123%
2037-26-5	Toluene-D8	103%		78-119%
460-00-4	4-Bromofluorobenzene	109%		74-119%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW036C(HS-D)	
Lab Sample ID: JB64390-17	Date Sampled: 04/09/14
Matrix: AQ - Ground Water	Date Received: 04/10/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L260428.D	1	04/15/14	TR	n/a	n/a	VL6926
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.0	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-120%
17060-07-0	1,2-Dichloroethane-D4	114%		72-123%
2037-26-5	Toluene-D8	104%		78-119%
460-00-4	4-Bromofluorobenzene	103%		74-119%

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

Report of Analysis

Client Sample ID: PW3501(HS-S)	
Lab Sample ID: JB64390-18	Date Sampled: 04/09/14
Matrix: AQ - Ground Water	Date Received: 04/10/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L260429.D	1	04/15/14	TR	n/a	n/a	VL6926
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		79-120%
17060-07-0	1,2-Dichloroethane-D4	116%		72-123%
2037-26-5	Toluene-D8	105%		78-119%
460-00-4	4-Bromofluorobenzene	107%		74-119%

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

Report of Analysis

Client Sample ID: PW3501(HS-D)		
Lab Sample ID: JB64390-19		Date Sampled: 04/09/14
Matrix: AQ - Ground Water		Date Received: 04/10/14
Method: SW846 8260B		Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L260430.D	1	04/15/14	TR	n/a	n/a	VL6926
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-120%
17060-07-0	1,2-Dichloroethane-D4	115%		72-123%
2037-26-5	Toluene-D8	104%		78-119%
460-00-4	4-Bromofluorobenzene	106%		74-119%

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

Report of Analysis

Client Sample ID: MW179C(HS-S)	
Lab Sample ID: JB64390-20	Date Sampled: 04/09/14
Matrix: AQ - Ground Water	Date Received: 04/10/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L260431.D	1	04/15/14	TR	n/a	n/a	VL6926
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	14.3	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	3.1	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-120%
17060-07-0	1,2-Dichloroethane-D4	116%		72-123%
2037-26-5	Toluene-D8	106%		78-119%
460-00-4	4-Bromofluorobenzene	110%		74-119%

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

Report of Analysis

Client Sample ID: MW179C(HS-D)	
Lab Sample ID: JB64390-21	Date Sampled: 04/09/14
Matrix: AQ - Ground Water	Date Received: 04/10/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L260385.D	1	04/12/14	TR	n/a	n/a	VL6923
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	32.3	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	0.38	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	4.3	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-120%
17060-07-0	1,2-Dichloroethane-D4	117%		72-123%
2037-26-5	Toluene-D8	105%		78-119%
460-00-4	4-Bromofluorobenzene	106%		74-119%

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

Report of Analysis

Client Sample ID: MW180C(HS-S)	
Lab Sample ID: JB64390-22	Date Sampled: 04/09/14
Matrix: AQ - Ground Water	Date Received: 04/10/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L260386.D	1	04/12/14	TR	n/a	n/a	VL6923
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	9.8	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	0.47	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		79-120%
17060-07-0	1,2-Dichloroethane-D4	117%		72-123%
2037-26-5	Toluene-D8	104%		78-119%
460-00-4	4-Bromofluorobenzene	106%		74-119%

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

Report of Analysis

Client Sample ID:	MW180C(HS-D)	Date Sampled:	04/09/14
Lab Sample ID:	JB64390-23	Date Received:	04/10/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L260387.D	1	04/12/14	TR	n/a	n/a	VL6923
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	12.4	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	0.53	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-120%
17060-07-0	1,2-Dichloroethane-D4	119%		72-123%
2037-26-5	Toluene-D8	106%		78-119%
460-00-4	4-Bromofluorobenzene	107%		74-119%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW073C(AP)	
Lab Sample ID: JB64390-24	Date Sampled: 04/08/14
Matrix: AQ - Ground Water	Date Received: 04/10/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L260391.D	25	04/12/14	TR	n/a	n/a	VL6923
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	13	7.0	ug/l	
108-88-3	Toluene	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	13	5.2	ug/l	
1330-20-7	Xylene (total)	ND	25	4.8	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3350	25	7.1	ug/l	
75-65-0	Tert Butyl Alcohol	1710	630	47	ug/l	
108-20-3	Di-Isopropyl ether	24.3	50	6.0	ug/l	J
994-05-8	tert-Amyl Methyl Ether	269	130	5.1	ug/l	
637-92-3	tert-Butyl Ethyl Ether	83.9	130	6.2	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		79-120%
17060-07-0	1,2-Dichloroethane-D4	122%		72-123%
2037-26-5	Toluene-D8	105%		78-119%
460-00-4	4-Bromofluorobenzene	109%		74-119%

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

Report of Analysis

Client Sample ID: MW073C(BP)		
Lab Sample ID: JB64390-25		Date Sampled: 04/08/14
Matrix: AQ - Ground Water		Date Received: 04/10/14
Method: SW846 8260B		Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L260505.D	20	04/17/14	DS	n/a	n/a	VL6929
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	10	5.6	ug/l	
108-88-3	Toluene	ND	20	8.9	ug/l	
100-41-4	Ethylbenzene	ND	10	4.2	ug/l	
1330-20-7	Xylene (total)	ND	20	3.9	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2210	20	5.7	ug/l	
75-65-0	Tert Butyl Alcohol	1050	500	38	ug/l	
108-20-3	Di-Isopropyl ether	10.6	40	4.8	ug/l	J
994-05-8	tert-Amyl Methyl Ether	160	100	4.1	ug/l	
637-92-3	tert-Butyl Ethyl Ether	45.0	100	4.9	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-120%
17060-07-0	1,2-Dichloroethane-D4	94%		72-123%
2037-26-5	Toluene-D8	99%		78-119%
460-00-4	4-Bromofluorobenzene	91%		74-119%

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

Report of Analysis

Client Sample ID: TRIP BLANK JW1		
Lab Sample ID: JB64390-26		Date Sampled: 04/09/14
Matrix: AQ - Trip Blank Water		Date Received: 04/10/14
Method: SW846 8260B		Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L260388.D	1	04/12/14	TR	n/a	n/a	VL6923
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-120%
17060-07-0	1,2-Dichloroethane-D4	119%		72-123%
2037-26-5	Toluene-D8	105%		78-119%
460-00-4	4-Bromofluorobenzene	109%		74-119%

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

Report of Analysis

Client Sample ID: MW186D(AP)		
Lab Sample ID: JB64390-27		Date Sampled: 04/08/14
Matrix: AQ - Ground Water		Date Received: 04/10/14
Method: SW846 8260B		Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L260389.D	1	04/12/14	TR	n/a	n/a	VL6923
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.28	0.50	0.28	ug/l	J
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-120%
17060-07-0	1,2-Dichloroethane-D4	120%		72-123%
2037-26-5	Toluene-D8	104%		78-119%
460-00-4	4-Bromofluorobenzene	111%		74-119%

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

Report of Analysis

Client Sample ID: MW186D(BP)		Date Sampled: 04/08/14
Lab Sample ID: JB64390-28		Date Received: 04/10/14
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L260390.D	1	04/12/14	TR	n/a	n/a	VL6923
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-120%
17060-07-0	1,2-Dichloroethane-D4	119%		72-123%
2037-26-5	Toluene-D8	106%		78-119%
460-00-4	4-Bromofluorobenzene	108%		74-119%

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

Report of Analysis

Client Sample ID: MW054C(HS-S)	
Lab Sample ID: JB64390-29	Date Sampled: 04/08/14
Matrix: AQ - Ground Water	Date Received: 04/10/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L260433.D	100	04/15/14	TR	n/a	n/a	VL6926
Run #2	L260541.D	500	04/18/14	DS	n/a	n/a	VL6931

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	128	50	28	ug/l	
108-88-3	Toluene	211	100	44	ug/l	
100-41-4	Ethylbenzene	ND	50	21	ug/l	
1330-20-7	Xylene (total)	77.4	100	19	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	21200 ^a	500	140	ug/l	
75-65-0	Tert Butyl Alcohol	ND	2500	190	ug/l	
108-20-3	Di-Isopropyl ether	90.1	200	24	ug/l	J
994-05-8	tert-Amyl Methyl Ether	1390	500	20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	318	500	25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%	96%	79-120%
17060-07-0	1,2-Dichloroethane-D4	117%	87%	72-123%
2037-26-5	Toluene-D8	106%	98%	78-119%
460-00-4	4-Bromofluorobenzene	106%	88%	74-119%

(a) Result is from Run# 2

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

Report of Analysis

Client Sample ID: MW054C(HS-D)	
Lab Sample ID: JB64390-30	Date Sampled: 04/08/14
Matrix: AQ - Ground Water	Date Received: 04/10/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L260434.D	20	04/15/14	TR	n/a	n/a	VL6926
Run #2	L260511.D	200	04/17/14	DS	n/a	n/a	VL6929

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	236	10	5.6	ug/l	
108-88-3	Toluene	398	20	8.9	ug/l	
100-41-4	Ethylbenzene	29.0	10	4.2	ug/l	
1330-20-7	Xylene (total)	129	20	3.9	ug/l	
1634-04-4	Methyl Tert Butyl Ether	17700 ^a	200	57	ug/l	
75-65-0	Tert Butyl Alcohol	2540	500	38	ug/l	
108-20-3	Di-Isopropyl ether	93.8	40	4.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	1330	100	4.1	ug/l	
637-92-3	tert-Butyl Ethyl Ether	340	100	4.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%	101%	79-120%
17060-07-0	1,2-Dichloroethane-D4	119%	96%	72-123%
2037-26-5	Toluene-D8	108%	100%	78-119%
460-00-4	4-Bromofluorobenzene	109%	90%	74-119%

(a) Result is from Run# 2

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

Report of Analysis

Client Sample ID: MW038C		
Lab Sample ID: JB64390-31		Date Sampled: 04/08/14
Matrix: AQ - Ground Water		Date Received: 04/10/14
Method: SW846 8260B		Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L260512.D	1	04/17/14	DS	n/a	n/a	VL6929
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	9.6	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	0.59	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.27	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		79-120%
17060-07-0	1,2-Dichloroethane-D4	96%		72-123%
2037-26-5	Toluene-D8	96%		78-119%
460-00-4	4-Bromofluorobenzene	90%		74-119%

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB64390 Client: _____ Project: _____
 Date / Time Received: 4/10/2014 Delivery Method: _____ Airbill #'s: _____

Cooler Temps (Initial/Adjusted): #1: (2.6/2.6); 0

<u>Cooler Security</u>	<u>Y</u>	<u>or</u>	<u>N</u>		<u>Y</u>	<u>or</u>	<u>N</u>
1. Custody Seals Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:	Intact		

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

Accutest Laboratories
V: 732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www.accutest.com

4.1
4



Job Change Order: JB64390

Requested Date: 4/22/2014 Received Date: 4/10/2014
 Account Name: ExxonMobil Corporation Due Date: 4/24/2014
 Project Description: GSCMD: SIS 2-8077, 14258 Jarrettsville Pike, Phoe Deliverable: COMMA
 CSR: mayurp TAT (Days): 14

Sample #: JB64390-16 Change:
 Please change the sample ID to MW036C(HS-S)
 Dept:

MW036R(HS-S)

Sample #: JB64390-17 Change:
 Please change the sample ID to MW036C(HS-D)
 Dept:

MW036R(HS-D)

Above Changes Per: Brand Rodenberg Date/Time: 4/22/2014 4:22:59 PM

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

Technical Report for

ExxonMobil Corporation

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD

PO#4410181426 80021012 0008

Accutest Job Number: JB67068

Sampling Dates: 05/13/14 - 05/15/14

Report to:

Kleinfelder
1340 Charwood Road Suite I
Hanover, MD 21076
JKozak@kleinfelder.com; SRochford@kleinfelder.com;
brodenberg@kleinfelder.com; SSchiding@kleinfelder.com;
ATTN: Sean Rochford

Total number of pages in report: 33



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

Nancy F. Cole

Nancy Cole
Laboratory Director

Client Service contact: Matt Cordova 732-329-0200

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

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Summary of Hits	5
Section 3: Sample Results	8
3.1: JB67068-1: MW073C(AP)	9
3.2: JB67068-2: MW073C(BP)	10
3.3: JB67068-3: PW3501(HS-S)	11
3.4: JB67068-4: PW3501(HS-D)	12
3.5: JB67068-5: TRIP BLANK JW2	13
3.6: JB67068-6: MW186D(AP)	14
3.7: JB67068-7: MW186D(BP)	15
3.8: JB67068-8: MW146C(HS-S)	16
3.9: JB67068-9: MW146C(HS-D)	17
3.10: JB67068-10: MW036C(HS-S)	18
3.11: JB67068-11: MW036C(HS-D)	19
3.12: JB67068-12: MW171C(HS-S)	20
3.13: JB67068-13: MW171C(HS-D)	21
3.14: JB67068-14: MW135C(HS-S)	22
3.15: JB67068-15: MW135C(HS-D)	23
3.16: JB67068-16: MW048D(HS-S)	24
3.17: JB67068-17: MW048D(HS-D)	25
3.18: JB67068-18: MW131C(HS-S)	26
3.19: JB67068-19: MW131C(HS-D)	27
3.20: JB67068-20: MW188D(AP)	28
3.21: JB67068-21: MW188D(BP)	29
Section 4: Misc. Forms	30
4.1: Chain of Custody	31



Sample Summary

ExxonMobil Corporation

Job No: JB67068

GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO#4410181426 80021012 0008

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB67068-1	05/13/14	09:40 JW	05/15/14	AQ	Ground Water	MW073C(AP)
JB67068-2	05/13/14	09:45 JW	05/15/14	AQ	Ground Water	MW073C(BP)
JB67068-3	05/15/14	12:00 JW	05/15/14	AQ	Ground Water	PW3501(HS-S)
JB67068-4	05/15/14	12:05 JW	05/15/14	AQ	Ground Water	PW3501(HS-D)
JB67068-5	05/15/14	12:05 JW	05/15/14	AQ	Trip Blank Water	TRIP BLANK JW2
JB67068-6	05/13/14	10:15 JW	05/15/14	AQ	Ground Water	MW186D(AP)
JB67068-7	05/13/14	10:20 JW	05/15/14	AQ	Ground Water	MW186D(BP)
JB67068-8	05/15/14	11:00 JW	05/15/14	AQ	Ground Water	MW146C(HS-S)
JB67068-9	05/15/14	11:10 JW	05/15/14	AQ	Ground Water	MW146C(HS-D)
JB67068-10	05/14/14	10:40 JW	05/15/14	AQ	Ground Water	MW036C(HS-S)
JB67068-11	05/14/14	10:45 JW	05/15/14	AQ	Ground Water	MW036C(HS-D)
JB67068-12	05/14/14	12:30 JW	05/15/14	AQ	Ground Water	MW171C(HS-S)
JB67068-13	05/14/14	12:40 JW	05/15/14	AQ	Ground Water	MW171C(HS-D)



Sample Summary (continued)

ExxonMobil Corporation

Job No: JB67068

**GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Project No: PO#4410181426 80021012 0008**

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB67068-14	05/13/14	11:30 JW	05/15/14	AQ	Ground Water	MW135C(HS-S)
JB67068-15	05/13/14	11:35 JW	05/15/14	AQ	Ground Water	MW135C(HS-D)
JB67068-16	05/14/14	10:00 JW	05/15/14	AQ	Ground Water	MW048D(HS-S)
JB67068-17	05/14/14	10:05 JW	05/15/14	AQ	Ground Water	MW048D(HS-D)
JB67068-18	05/13/14	11:00 JW	05/15/14	AQ	Ground Water	MW131C(HS-S)
JB67068-19	05/13/14	11:05 JW	05/15/14	AQ	Ground Water	MW131C(HS-D)
JB67068-20	05/14/14	11:15 JW	05/15/14	AQ	Ground Water	MW188D(AP)
JB67068-21	05/14/14	11:20 JW	05/15/14	AQ	Ground Water	MW188D(BP)

Summary of Hits

Job Number: JB67068
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 05/13/14 thru 05/15/14

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

JB67068-1 MW073C(AP)

Methyl Tert Butyl Ether	2410	50	14	ug/l	SW846 8260B
Tert Butyl Alcohol	1930	130	9.4	ug/l	SW846 8260B
Di-Isopropyl ether	17.3	10	1.2	ug/l	SW846 8260B
tert-Amyl Methyl Ether	188	25	1.0	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	65.4	25	1.2	ug/l	SW846 8260B

JB67068-2 MW073C(BP)

Methyl Tert Butyl Ether	2270	50	14	ug/l	SW846 8260B
Tert Butyl Alcohol	1610	130	9.4	ug/l	SW846 8260B
Di-Isopropyl ether	17.3	10	1.2	ug/l	SW846 8260B
tert-Amyl Methyl Ether	188	25	1.0	ug/l	SW846 8260B
tert-Butyl Ethyl Ether	65.8	25	1.2	ug/l	SW846 8260B

JB67068-3 PW3501(HS-S)

No hits reported in this sample.

JB67068-4 PW3501(HS-D)

No hits reported in this sample.

JB67068-5 TRIP BLANK JW2

No hits reported in this sample.

JB67068-6 MW186D(AP)

Toluene	1.0	1.0	0.44	ug/l	SW846 8260B
---------	-----	-----	------	------	-------------

JB67068-7 MW186D(BP)

No hits reported in this sample.

JB67068-8 MW146C(HS-S)

No hits reported in this sample.

JB67068-9 MW146C(HS-D)

No hits reported in this sample.

Summary of Hits

Job Number: JB67068
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 05/13/14 thru 05/15/14

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB67068-10	MW036C(HS-S)					
Methyl Tert Butyl Ether		2.2	1.0	0.29	ug/l	SW846 8260B
JB67068-11	MW036C(HS-D)					
Methyl Tert Butyl Ether		2.2	1.0	0.29	ug/l	SW846 8260B
JB67068-12	MW171C(HS-S)					
Methyl Tert Butyl Ether		1.8	1.0	0.29	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		1.1 J	5.0	0.25	ug/l	SW846 8260B
JB67068-13	MW171C(HS-D)					
Methyl Tert Butyl Ether		1.3	1.0	0.29	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.59 J	5.0	0.25	ug/l	SW846 8260B
JB67068-14	MW135C(HS-S)					
No hits reported in this sample.						
JB67068-15	MW135C(HS-D)					
No hits reported in this sample.						
JB67068-16	MW048D(HS-S)					
No hits reported in this sample.						
JB67068-17	MW048D(HS-D)					
No hits reported in this sample.						
JB67068-18	MW131C(HS-S)					
No hits reported in this sample.						
JB67068-19	MW131C(HS-D)					
No hits reported in this sample.						
JB67068-20	MW188D(AP)					
Toluene		31.1	1.0	0.44	ug/l	SW846 8260B

Summary of Hits

Job Number: JB67068
Account: ExxonMobil Corporation
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD
Collected: 05/13/14 thru 05/15/14

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Methyl Tert Butyl Ether		10.8	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether		0.90 J	5.0	0.20	ug/l	SW846 8260B
JB67068-21		MW188D(BP)				
Toluene		3.8	1.0	0.44	ug/l	SW846 8260B
Xylene (total)		1.4	1.0	0.19	ug/l	SW846 8260B
Methyl Tert Butyl Ether		25.5	1.0	0.29	ug/l	SW846 8260B
tert-Amyl Methyl Ether		2.1 J	5.0	0.20	ug/l	SW846 8260B
tert-Butyl Ethyl Ether		0.48 J	5.0	0.25	ug/l	SW846 8260B

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW073C(AP)		Date Sampled: 05/13/14
Lab Sample ID: JB67068-1		Date Received: 05/15/14
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A130936.D	5	05/17/14	HA	n/a	n/a	V3A5668
Run #2	3A130937.D	50	05/17/14	HA	n/a	n/a	V3A5668

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.5	1.4	ug/l	
108-88-3	Toluene	ND	5.0	2.2	ug/l	
100-41-4	Ethylbenzene	ND	2.5	1.0	ug/l	
1330-20-7	Xylene (total)	ND	5.0	0.97	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2410 ^a	50	14	ug/l	
75-65-0	Tert Butyl Alcohol	1930	130	9.4	ug/l	
108-20-3	Di-Isopropyl ether	17.3	10	1.2	ug/l	
994-05-8	tert-Amyl Methyl Ether	188	25	1.0	ug/l	
637-92-3	tert-Butyl Ethyl Ether	65.4	25	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%	95%	79-120%
17060-07-0	1,2-Dichloroethane-D4	95%	96%	72-123%
2037-26-5	Toluene-D8	100%	98%	78-119%
460-00-4	4-Bromofluorobenzene	95%	96%	74-119%

(a) Result is from Run# 2

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

Report of Analysis

Client Sample ID: MW073C(BP)		
Lab Sample ID: JB67068-2		Date Sampled: 05/13/14
Matrix: AQ - Ground Water		Date Received: 05/15/14
Method: SW846 8260B		Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A130933.D	5	05/17/14	HA	n/a	n/a	V3A5668
Run #2	3A130932.D	50	05/17/14	HA	n/a	n/a	V3A5668

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.5	1.4	ug/l	
108-88-3	Toluene	ND	5.0	2.2	ug/l	
100-41-4	Ethylbenzene	ND	2.5	1.0	ug/l	
1330-20-7	Xylene (total)	ND	5.0	0.97	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2270 ^a	50	14	ug/l	
75-65-0	Tert Butyl Alcohol	1610	130	9.4	ug/l	
108-20-3	Di-Isopropyl ether	17.3	10	1.2	ug/l	
994-05-8	tert-Amyl Methyl Ether	188	25	1.0	ug/l	
637-92-3	tert-Butyl Ethyl Ether	65.8	25	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%	97%	79-120%
17060-07-0	1,2-Dichloroethane-D4	101%	100%	72-123%
2037-26-5	Toluene-D8	100%	98%	78-119%
460-00-4	4-Bromofluorobenzene	94%	96%	74-119%

(a) Result is from Run# 2

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

Report of Analysis

Client Sample ID: PW3501(HS-S)	
Lab Sample ID: JB67068-3	Date Sampled: 05/15/14
Matrix: AQ - Ground Water	Date Received: 05/15/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A130938.D	1	05/17/14	HA	n/a	n/a	V3A5668
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		79-120%
17060-07-0	1,2-Dichloroethane-D4	98%		72-123%
2037-26-5	Toluene-D8	98%		78-119%
460-00-4	4-Bromofluorobenzene	95%		74-119%

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

Report of Analysis

Client Sample ID: PW3501(HS-D)		
Lab Sample ID: JB67068-4		Date Sampled: 05/15/14
Matrix: AQ - Ground Water		Date Received: 05/15/14
Method: SW846 8260B		Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A130939.D	1	05/17/14	HA	n/a	n/a	V3A5668
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		79-120%
17060-07-0	1,2-Dichloroethane-D4	97%		72-123%
2037-26-5	Toluene-D8	98%		78-119%
460-00-4	4-Bromofluorobenzene	95%		74-119%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANK JW2	
Lab Sample ID: JB67068-5	Date Sampled: 05/15/14
Matrix: AQ - Trip Blank Water	Date Received: 05/15/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A130940.D	1	05/17/14	HA	n/a	n/a	V3A5668
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-120%
17060-07-0	1,2-Dichloroethane-D4	99%		72-123%
2037-26-5	Toluene-D8	99%		78-119%
460-00-4	4-Bromofluorobenzene	96%		74-119%

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

Report of Analysis

Client Sample ID: MW186D(BP)	
Lab Sample ID: JB67068-7	Date Sampled: 05/13/14
Matrix: AQ - Ground Water	Date Received: 05/15/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A130942.D	1	05/17/14	HA	n/a	n/a	V3A5668
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		79-120%
17060-07-0	1,2-Dichloroethane-D4	99%		72-123%
2037-26-5	Toluene-D8	98%		78-119%
460-00-4	4-Bromofluorobenzene	96%		74-119%

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

Report of Analysis

Client Sample ID: MW146C(HS-S)	
Lab Sample ID: JB67068-8	Date Sampled: 05/15/14
Matrix: AQ - Ground Water	Date Received: 05/15/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A130943.D	1	05/17/14	HA	n/a	n/a	V3A5668
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-120%
17060-07-0	1,2-Dichloroethane-D4	102%		72-123%
2037-26-5	Toluene-D8	98%		78-119%
460-00-4	4-Bromofluorobenzene	97%		74-119%

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

Report of Analysis

3.9
3

Client Sample ID: MW146C(HS-D)		Date Sampled: 05/15/14
Lab Sample ID: JB67068-9		Date Received: 05/15/14
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A130944.D	1	05/17/14	HA	n/a	n/a	V3A5668
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-120%
17060-07-0	1,2-Dichloroethane-D4	100%		72-123%
2037-26-5	Toluene-D8	100%		78-119%
460-00-4	4-Bromofluorobenzene	96%		74-119%

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

Report of Analysis

Client Sample ID:	MW036C(HS-S)	Date Sampled:	05/14/14
Lab Sample ID:	JB67068-10	Date Received:	05/15/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A130945.D	1	05/17/14	HA	n/a	n/a	V3A5668
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.2	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		79-120%
17060-07-0	1,2-Dichloroethane-D4	100%		72-123%
2037-26-5	Toluene-D8	99%		78-119%
460-00-4	4-Bromofluorobenzene	96%		74-119%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW036C(HS-D)	Date Sampled: 05/14/14
Lab Sample ID: JB67068-11	Date Received: 05/15/14
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A130946.D	1	05/17/14	HA	n/a	n/a	V3A5668
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.2	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		79-120%
17060-07-0	1,2-Dichloroethane-D4	100%		72-123%
2037-26-5	Toluene-D8	99%		78-119%
460-00-4	4-Bromofluorobenzene	96%		74-119%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW171C(HS-S)	
Lab Sample ID: JB67068-12	Date Sampled: 05/14/14
Matrix: AQ - Ground Water	Date Received: 05/15/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A130947.D	1	05/17/14	HA	n/a	n/a	V3A5668
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.8	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	1.1	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-120%
17060-07-0	1,2-Dichloroethane-D4	101%		72-123%
2037-26-5	Toluene-D8	99%		78-119%
460-00-4	4-Bromofluorobenzene	96%		74-119%

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

Report of Analysis

Client Sample ID: MW171C(HS-D)	
Lab Sample ID: JB67068-13	Date Sampled: 05/14/14
Matrix: AQ - Ground Water	Date Received: 05/15/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A130948.D	1	05/17/14	HA	n/a	n/a	V3A5668
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.3	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	0.59	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		79-120%
17060-07-0	1,2-Dichloroethane-D4	102%		72-123%
2037-26-5	Toluene-D8	99%		78-119%
460-00-4	4-Bromofluorobenzene	95%		74-119%

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

Report of Analysis

Client Sample ID: MW135C(HS-S)	
Lab Sample ID: JB67068-14	Date Sampled: 05/13/14
Matrix: AQ - Ground Water	Date Received: 05/15/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A130949.D	1	05/17/14	HA	n/a	n/a	V3A5668
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-120%
17060-07-0	1,2-Dichloroethane-D4	100%		72-123%
2037-26-5	Toluene-D8	99%		78-119%
460-00-4	4-Bromofluorobenzene	96%		74-119%

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

Report of Analysis

Client Sample ID:	MW135C(HS-D)	Date Sampled:	05/13/14
Lab Sample ID:	JB67068-15	Date Received:	05/15/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A139474.D	1	05/17/14	DS	n/a	n/a	V1A6030
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-120%
17060-07-0	1,2-Dichloroethane-D4	93%		72-123%
2037-26-5	Toluene-D8	102%		78-119%
460-00-4	4-Bromofluorobenzene	100%		74-119%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW048D(HS-S)	
Lab Sample ID: JB67068-16	Date Sampled: 05/14/14
Matrix: AQ - Ground Water	Date Received: 05/15/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A139475.D	1	05/17/14	DS	n/a	n/a	V1A6030
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		79-120%
17060-07-0	1,2-Dichloroethane-D4	93%		72-123%
2037-26-5	Toluene-D8	102%		78-119%
460-00-4	4-Bromofluorobenzene	101%		74-119%

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

Report of Analysis

Client Sample ID: MW048D(HS-D)	
Lab Sample ID: JB67068-17	Date Sampled: 05/14/14
Matrix: AQ - Ground Water	Date Received: 05/15/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A139476.D	1	05/17/14	DS	n/a	n/a	V1A6030
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-120%
17060-07-0	1,2-Dichloroethane-D4	95%		72-123%
2037-26-5	Toluene-D8	102%		78-119%
460-00-4	4-Bromofluorobenzene	100%		74-119%

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

Report of Analysis

Client Sample ID: MW131C(HS-S)	
Lab Sample ID: JB67068-18	Date Sampled: 05/13/14
Matrix: AQ - Ground Water	Date Received: 05/15/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A139477.D	1	05/17/14	DS	n/a	n/a	V1A6030
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		79-120%
17060-07-0	1,2-Dichloroethane-D4	93%		72-123%
2037-26-5	Toluene-D8	103%		78-119%
460-00-4	4-Bromofluorobenzene	99%		74-119%

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

Report of Analysis

Client Sample ID:	MW131C(HS-D)	Date Sampled:	05/13/14
Lab Sample ID:	JB67068-19	Date Received:	05/15/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A139478.D	1	05/17/14	DS	n/a	n/a	V1A6030
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-120%
17060-07-0	1,2-Dichloroethane-D4	93%		72-123%
2037-26-5	Toluene-D8	103%		78-119%
460-00-4	4-Bromofluorobenzene	100%		74-119%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW188D(AP)	
Lab Sample ID: JB67068-20	Date Sampled: 05/14/14
Matrix: AQ - Ground Water	Date Received: 05/15/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A139479.D	1	05/17/14	DS	n/a	n/a	V1A6030
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	31.1	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	10.8	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	0.90	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		79-120%
17060-07-0	1,2-Dichloroethane-D4	94%		72-123%
2037-26-5	Toluene-D8	103%		78-119%
460-00-4	4-Bromofluorobenzene	99%		74-119%

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

Report of Analysis

Client Sample ID: MW188D(BP)	
Lab Sample ID: JB67068-21	Date Sampled: 05/14/14
Matrix: AQ - Ground Water	Date Received: 05/15/14
Method: SW846 8260B	Percent Solids: n/a
Project: GSCMD: S/S 2-8077, 14258 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A139480.D	1	05/17/14	DS	n/a	n/a	V1A6030
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.28	ug/l	
108-88-3	Toluene	3.8	1.0	0.44	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
1330-20-7	Xylene (total)	1.4	1.0	0.19	ug/l	
1634-04-4	Methyl Tert Butyl Ether	25.5	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	1.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.24	ug/l	
994-05-8	tert-Amyl Methyl Ether	2.1	5.0	0.20	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	0.48	5.0	0.25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		79-120%
17060-07-0	1,2-Dichloroethane-D4	94%		72-123%
2037-26-5	Toluene-D8	103%		78-119%
460-00-4	4-Bromofluorobenzene	98%		74-119%

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CPS

GW
W/B



CHAIN OF CUSTODY- ExxonMobil Projects

Accutest New Jersey (Mid Atlantic) Regional Lab
Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

2235

FED/EX Tracking #
Accutest Quote #
Accutest Job # **JB67068**

Client / Reporting Information		SITE NAME - Provide Site Name for Retail or AFE Number for Major Projects		Requested Analysis (see TEST CODE sheet)												Matrix Codes		
Company Name Kleinfelder		Retail Project (Site Name) Exxon - Phoenix		ExxonMobil Environmental Services Co.												DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SD - Soil SL - Sludge SEP - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank		
Street Address 1340 Charwood Road Ste. 1		Major Project (AFEI) 28077		If Project is Direct Bill to Consultant														
City State Zip Hanover, MD 21076		Project Name 14258 Jarrettsville Pike		Company Name Kleinfelder														
Project Contact Stacey Schiding		City State Phoenix MD		Street Address 1 Speen Street, Second Floor														
Phone # 410-850-0404		ExxonMobil Manager John Hoban		City State Zip Framingham MA 01701														
FAX # 410-850-0049		ExxonMobil Purchase Order # N/A		Attention: PO# 51141-243044														
Sample(s) Name(s) Jessica Wagon		Accounts Payable 51141-243044		Bottle Order Control #														
Account Sample #		MED/ID# Val #		Date		Time		Sampled by		Matrix		# of bottles		Number of preserved bottles			Bottle Order Control #	
Field ID / Point of Collection																		
1 MW073C(AP)				5/13/14		0940		JW		GW		3 3					X	
2 MW073C(BP)				5/13/14		0945		JW		GW		3 3				X		
3 PW3501(HS-S)				5/15/14		1200		JW		GW		3 3				X		
4 PW3501(HS-D)				5/15/14		1205		JW		GW		3 3				X		
5 Trip Blank				5/15/14		0600		JW		TB		2 2				X		
6 MW186D(AD)				5/13/14		1015		JW		GW		3 3				X		
7 MW186D(BP)				5/13/14		1020		JW		GW		3 3				X		
8 MW146C(HS-S)				5/15/14		1100		JW		GW		3 3				X		
9 MW146C(HS-D)				5/15/14		1110		JW		GW		3 3				X		
Turnaround Time (Business days)		Approved By (Accutest PM) / Date:		Data Deliverable Information												Comments / Special Instructions		
<input type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> 8 Day RUSH <input type="checkbox"/> 5 Day RUSH <input checked="" type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY				<input checked="" type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLTI (Level 3+4) <input type="checkbox"/> NJ Reduced <input type="checkbox"/> Commercial "C" <input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> Other												2 DAY TAT		
Emergency & Rush TIA data available VIA Lablink		Sample Custody must be documented below each time samples change possession, including courier delivery.		Received By: JW Date Time: 5/16/14 Received By: JW Date Time: 5/15/14 Received By: JW Date Time: 5/15/14 Received By: JW Date Time: 5/15/14												Received By: JW Date Time: 5/16/14 Received By: JW Date Time: 5/15/14		
1		2		<input type="checkbox"/> Intact <input type="checkbox"/> Not Intact												Preserved where applicable <input type="checkbox"/> On Ice <input checked="" type="checkbox"/> Cooler Temp. 2.6		

LAB USE ONLY
U336

4.1
4

187200

JW

JW

CS



CHAIN OF CUSTODY- ExxonMobil Projects

Accutest New Jersey (Mid Atlantic) Regional Lab
 2235 Route 130, Dayton, NJ 08810
 TEL: 732-929-0200 FAX: 732-934-3499/3480
 www.accutest.com

FED-EX Tracking #
 Bottle Order Control #
 Accutest Quote #
 Accutest Job # **JB67068**

Client / Reporting Information		SITE NAME - Provide Site Name for Retail or AFE Number for Major Projects		Requested Analysis (see TEST CODE sheet)		Matrix Codes	
Company Name Kleinfelder		Retail Project (Site Name) Exxon - Phoenix		ExxonMobil Environmental Services Co.		DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank	
Street Address 1340 Charwood Road Ste. 1		Major Project (AFE) 28077		If Project is Direct Bill to Consultant			
City State Zip Hanover, MD 21076		Project Name 14258 Jarrettsville Pike		Company Name Kleinfelder			
Project Contact Stacey Schiding		City State Phoenix MD		Street Address 1 Speen Street, Second Floor			
Phone # Fax # 410-850-0404 410-850-0049		ExxonMobil Manager John Hoban		City State Zip Frammingham MA 01701			
Sampler(s) Name(s) Jessica Wern		ExxonMobil Purchase Order # N/A		Attention: PO#			
				Accounts Payable 51141-243044			

Account Sample #	Field ID / Point of Collection	MECH/DI Val #	Collection		Sampled by	Metric	# of bottles	Number of preserved Bottles										LAB USE ONLY
			Date	Time				HEC	NOH	H2O2	H2SO4	NO2	NO3	D-Water	MEDIA	ETIC/RE	2808B - BTCL - Full Organicals	
10	MW036C(HS-S)		5/14/14	1040	JW	GW	3	3										X
11	MW036C(HS-D)		5/14/14	1045	JW	GW	3	3										X
12	MW171C(HS-S)		5/14/14	1030	JW	GW	3	3										X
13	MW171C(HS-D)		5/14/14	1030	JW	GW	3	3										X
14	MW135C(HS-S)		5/13/14	1130	JW	GW	3	3										X
15	MW135C(HS-D)		5/13/14	1135	JW	GW	3	3										X
16	MW048D(HS-S)		5/14/14	1000	JW	GW	3	3										X
17	MW048D(HS-D)		5/14/14	1005	JW	GW	3	3										X
18	MW131C(HS-S)		5/13/14	1100	JW	GW	3	3										X
19	MW131C(HS-D)		5/13/14	1105	JW	GW	3	3										X
20	MW188D(AP)		5/14/14	1115	JW	GW	3	3										X
21	MW188D(BP)		5/14/14	1120	JW	GW	3	3										X

Turnaround Time (Business days)	Approved By (Accutest PM): Date:	<input checked="" type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> NJ Reduced <input type="checkbox"/> Commercial "C" <input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> Other	Comments / Special Instructions 2 DAY TAT
---------------------------------	----------------------------------	---	---

Emergency & Rush T/A data available via Lablink			
Relinquished to Sampler:	Date Time: 5/15/14	Received By: M. M. 65-15-14	Date Time: 5/15/14
Relinquished by:	Date Time:	Received By:	Date Time:
Relinquished by:	Date Time:	Received By:	Date Time:
Relinquished by:	Date Time:	Received By:	Date Time:

APPENDIX B



1340 Charwood Road, Suite I
Hanover, MD 21076
(410) 850-0404

BORING LOG
Well No. MW-73C

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Carey Knaub
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 11/16/2013
End Date: 11/23/2013
Total Hole Depth: 300'
Hole Diameter: 6-10"
Depth to Bedrock: 34'
Top-Of-Casing Elevation: TBD
Water Level (Initial): NA
Water Level (Static): NA
Logged By (Geol.): JM

Permit No.: BA-10-0457
License No.: JWD314
Checked By: JM
Notes: Well at 14315 Jarrettsville Pike
Boring pre-cleared to 8' by
Airknife/Vac.

SUBSURFACE PROFILE

SAMPLE

Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
0		<u>Ground Surface</u>	NA			0
1		Grass/Landscaping		0.0		1
2		SM Brown, moist, silty SAND with gravel, micaceous		0.0		2
3				0.0		3
4				0.0		4
5				0.0		5
6		SM Reddish brown, moist, silty SAND with gravel and cobbles, micaceous		0.0		6
7				0.0		7
8				0.0		8
9				0.0		9
10					10	
11		SM Brown, moist, silty SAND, micaceous soft/fast drilling	<1.0	11		
12				12		
13				13		
14				14		
15				15		
16				16		
17				17		
18			<1.0	18		
19		SM Brown, moist, silty SAND, micaceous, saprolite harder/slower drilling (18'-21') soft/fast drilling (21'-23')		19		
20				20		
21				21		
22			<1.0	22		
23				23		
24				24		
25		soft/fast drilling (25'-28')		25		
26				26		
27				27		
28			<1.0	28		
29		SM Brown gradually lightening to gray with depth, moist, silty SAND, micaceous cuttings, weathered rock Bedrock at 34' bgs		29		
30				30		
31			<1.0	31		
32				32		
33				33		
34			<1.0	34		
35		BR SCHIST, micaceous, quartzose, some oxidation, cuttings are gray, slow/hard drilling		35		
36			<1.0	36		
37				37		
38		weathered zone at 42' bgs		38		
39		softer/faster drilling from 42'-43' bgs	<1.0	39		
40				40		
41				41		
42			<1.0	42		
43				43		
44				44		
45				45		

VOC - Volatile Organic Compound USCS - Unified Soil Classification System
 NA - Not Applicable WOR - weight of rod
 NS - Not Sampled WH - weight of hammer
 NR - Not Recorded
 NM - Not Measured
 NE - Not Encountered
 ppm - parts per million



1340 Charwood Road, Suite I
Hanover, MD 21076
(410) 850-0404

BORING LOG
Well No. MW-73C

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Carey Knaub
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 11/16/2013
End Date: 11/23/2013
Total Hole Depth: 300'
Hole Diameter: 6-10"
Depth to Bedrock: 34'
Top-Of-Casing Elevation: TBD
Water Level (Initial): NA
Water Level (Static): NA
Logged By (Geol.): JM

Permit No.: BA-10-0457
License No.: JWD314
Checked By: JM
Notes: Well at 14315 Jarrettsville Pike
Boring pre-cleared to 8' by
Airknife/Vac.

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction		Depth (feet)
46		BR		<1.0			46
47		SCHIST, micaceous, quartzose, oxidized, cuttings are brown, soft/fast drilling		<1.0			47
48		BR		<1.0			48
49		SCHIST, micaceous, quartzose, gray cuttings, hard/slow drilling		<1.0			49
50		BR		<1.0			50
51		SCHIST, micaceous, quartzose, oxidized, cuttings are brown, soft/fast drilling		<1.0			51
52		BR		<1.0			52
53		SCHIST, micaceous, quartzose, oxidized, cuttings are brown, soft/fast drilling		<1.0			53
54		BR		<1.0			54
55		SCHIST, micaceous, quartzose, cuttings are gray, slow/hard drilling		<1.0			55
56		BR		<1.0			56
57		SCHIST, micaceous, quartzose, oxidized, cuttings are brown, soft/fast drilling		<1.0			57
58		BR		<1.0			58
59		SCHIST, micaceous, quartzose, cuttings are gray, slow/hard drilling		<1.0			59
60		BR		<1.0			60
61		SCHIST, micaceous, quartzose, oxidized, cuttings are brown, soft/fast drilling		<1.0			61
62		BR		<1.0			62
63		SCHIST, micaceous, quartzose, oxidized, cuttings are brown, soft/fast drilling		<1.0			63
64		BR		<1.0			64
65		SCHIST, micaceous, quartzose, cuttings are gray, slow/hard drilling		<1.0			65
66		BR		<1.0			66
67		SCHIST, micaceous, quartzose, oxidized, cuttings are brown, soft/fast drilling		<1.0			67
68		BR		<1.0			68
69		SCHIST, micaceous, quartzose, oxidized, cuttings are brown, soft/fast drilling		<1.0			69
70		BR		<1.0			70
71		SCHIST, micaceous, quartzose, cuttings are gray, slow/hard drilling		<1.0			71
72		BR		<1.0			72
73		SCHIST, micaceous, quartzose, cuttings are gray, slow/hard drilling		<1.0			73
74		BR		<1.0			74
75		SCHIST, brown cuttings, softer/faster drilling		<1.0			75
76		BR		<1.0			76
77		SCHIST, brown cuttings, softer/faster drilling		<1.0			77
78		BR		<1.0			78
79		GNEISS, quartzose, amphibole, epidote, micas, cuttings are greenishish gray, slow/hard drilling		<1.0			79
80				<1.0			80
81				<1.0			81
82				<1.0			82
83				<1.0			83
84				<1.0			84
85				<1.0			85
86				<1.0			86
87				<1.0			87
88				<1.0			88
89				<1.0			89
90				<1.0			90

VOC - Volatile Organic Compound
NA - Not Applicable
NS - Not Sampled
NR - Not Recorded
NM - Not Measured
NE - Not Encountered
ppm - parts per million

USCS - Unified Soil Classification System
WOR - weight of rod
WH - weight of hammer



1340 Charwood Road, Suite I
Hanover, MD 21076
(410) 850-0404

BORING LOG
Well No. MW-73C

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No.: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Carey Knaub
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 11/16/2013
End Date: 11/23/2013
Total Hole Depth: 300'
Hole Diameter: 6-10"
Depth to Bedrock: 34'
Top-Of-Casing Elevation: TBD
Water Level (Initial): NA
Water Level (Static): NA
Logged By (Geol.): JM

Permit No.: BA-10-0457
License No.: JWD314
Checked By: JM
Notes: Well at 14315 Jarrettsville Pike
Boring pre-cleared to 8' by
Airknife/Vac.

SUBSURFACE PROFILE

SAMPLE

Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
91				<1.0		91
92						92
93						93
94						94
95						95
96						96
97						97
98						98
99						99
100						100
101						101
102						102
103						103
104						104
105						105
106						106
107						107
108						108
109						109
110						110
111						111
112						112
113						113
114						114
115						115
116						116
117						117
118						118
119						119
120						120
121						121
122						122
123						123
124						124
125						125
126	126					
127	127					
128	128					
129	129					
130	130					
131	131					
132	132					
133	133					
134	134					
135	135					

VOC - Volatile Organic Compound USCS - Unified Soil Classification System
 NA - Not Applicable WOR - weight of rod
 NS - Not Sampled WH - weight of hammer
 NR - Not Recorded
 NM - Not Measured
 NE - Not Encountered
 ppm - parts per million



1340 Charwood Road, Suite I
Hanover, MD 21076
(410) 850-0404

BORING LOG
Well No. MW-73C

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No.: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Carey Knaub
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 11/16/2013
End Date: 11/23/2013
Total Hole Depth: 300'
Hole Diameter: 6-10"
Depth to Bedrock: 34'
Top-Of-Casing Elevation: TBD
Water Level (Initial): NA
Water Level (Static): NA
Logged By (Geol.): JM

Permit No.: BA-10-0457
License No.: JWD314
Checked By: JM
Notes: Well at 14315 Jarrettsville Pike
Boring pre-cleared to 8' by
Airknife/Vac.

SUBSURFACE PROFILE

SAMPLE

Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
136						136
137						137
138						138
139						139
140						140
141						141
142						142
143				<1.0		143
144						144
145						145
146						146
147						147
148				<1.0		148
149						149
150		BR				150
151		SCHIST, quartzose, micaceous, gray cuttings, slow/hard drillings				151
152				<1.0		152
153						153
154						154
155						155
156						156
157						157
158				<1.0		158
159						159
160						160
161						161
162				<1.0		162
163						163
164						164
165		Fractures (drill bit chatters) at 165' and 167' bgs				165
166						166
167				<1.0		167
168						168
169						169
170						170
171						171
172						172
173				<1.0		173
174						174
175						175
176						176
177				<1.0		177
178						178
179						179
180						180

VOC - Volatile Organic Compound
NA - Not Applicable
NS - Not Sampled
NR - Not Recorded
NM - Not Measured
NE - Not Encountered
ppm - parts per million

USCS - Unified Soil Classification System
WOR - weight of rod
WH - weight of hammer



1340 Charwood Road, Suite I
Hanover, MD 21076
(410) 850-0404

BORING LOG
Well No. MW-73C

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Carey Knaub
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 11/16/2013
End Date: 11/23/2013
Total Hole Depth: 300'
Hole Diameter: 6-10"
Depth to Bedrock: 34'
Top-Of-Casing Elevation: TBD
Water Level (Initial): NA
Water Level (Static): NA
Logged By (Geol.): JM

Permit No.: BA-10-0457
License No.: JWD314
Checked By: JM
Notes: Well at 14315 Jarrettsville Pike
Boring pre-cleared to 8' by
Airknife/Vac.

SUBSURFACE PROFILE

SAMPLE

Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
181						181
182				<1.0		182
183						183
184						184
185						185
186						186
187				<1.0		187
188						188
189						189
190						190
191						191
192				<1.0		192
193						193
194						194
195						195
196						196
197				<1.0		197
198						198
199						199
200						200
201						201
202				<1.0		202
203						203
204						204
205						205
206						206
207				<1.0		207
208						208
209						209
210						210
211						211
212				<1.0		212
213						213
214						214
215						215
216						216
217				<1.0		217
218						218
219						219
220						220
221						221
222				<1.0		222
223						223
224						224
225						225

VOC - Volatile Organic Compound USCS - Unified Soil Classification System
 NA - Not Applicable WOR - weight of rod
 NS - Not Sampled WH - weight of hammer
 NR - Not Recorded
 NM - Not Measured
 NE - Not Encountered
 ppm - parts per million



1340 Charwood Road, Suite I
Hanover, MD 21076
(410) 850-0404

BORING LOG
Well No. MW-73C

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No.: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Carey Knaub
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 11/16/2013
End Date: 11/23/2013
Total Hole Depth: 300'
Hole Diameter: 6-10"
Depth to Bedrock: 34'
Top-Of-Casing Elevation: TBD
Water Level (Initial): NA
Water Level (Static): NA
Logged By (Geol.): JM

Permit No.: BA-10-0457
License No.: JWD314
Checked By: JM
Notes: Well at 14315 Jarrettsville Pike
Boring pre-cleared to 8' by
Airknife/Vac.

SUBSURFACE PROFILE

SAMPLE

Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
226						226
227						227
228				<1.0		228
229						229
230						230
231						231
232						232
233				<1.0		233
234						234
235						235
236						236
237						237
238				<1.0		238
239						239
240						240
241						241
242						242
243				<1.0		243
244						244
245						245
246						246
247						247
248				<1.0		248
249						249
250						250
251						251
252						252
253				<1.0		253
254						254
255						255
256						256
257						257
258				<1.0		258
259						259
260						260
261						261
262						262
263				<1.0		263
264						264
265						265
266						266
267						267
268				<1.0		268
269						269
270						270

VOC - Volatile Organic Compound USCS - Unified Soil Classification System
 NA - Not Applicable WOR - weight of rod
 NS - Not Sampled WH - weight of hammer
 NR - Not Recorded
 NM - Not Measured
 NE - Not Encountered
 ppm - parts per million

1340 Charwood Road, Suite I
Hanover, MD 21076
(410) 850-0404

BORING LOG
Well No. MW-73C

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No.: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Carey Knaub
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 11/16/2013
End Date: 11/23/2013
Total Hole Depth: 300'
Hole Diameter: 6-10"
Depth to Bedrock: 34'
Top-Of-Casing Elevation: TBD
Water Level (Initial): NA
Water Level (Static): NA
Logged By (Geol.): JM

Permit No.: BA-10-0457
License No.: JWD314
Checked By: JM
Notes: Well at 14315 Jarrettsville Pike
Boring pre-cleared to 8' by
Airknife/Vac.

SUBSURFACE PROFILE

SAMPLE

Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
271						271
272				<1.0		272
273						273
274						274
275						275
276						276
277				<1.0		277
278						278
279						279
280						280
281						281
282				<1.0		282
283						283
284						284
285						285
286						286
287				<1.0		287
288						288
289						289
290						290
291						291
292				<1.0		292
293						293
294						294
295						295
296						296
297				<1.0		297
298						298
299						299
300						300
301		End of Borehole				301
302						302
303						303
304						304
305						305
306						306
307						307
308						308
309						309
310						310
311						311
312						312
313						313
314						314
315						315

VOC - Volatile Organic Compound
NA - Not Applicable
NS - Not Sampled
NR - Not Recorded
NM - Not Measured
NE - Not Encountered
ppm - parts per million

USCS - Unified Soil Classification System
WOR - weight of rod
WH - weight of hammer



1340 Charwood Road, Suite I
Hanover, MD 21076
(410) 850-0404

BORING LOG
Well No. MW-186D

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Carey Knaub
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 12/06/2013
End Date: 12/14/2013
Total Hole Depth: 428'
Hole Diameter: 6-10"
Depth to Bedrock: 56'
Top-Of-Casing Elevation: TBD
Water Level (Initial): 35.5'
Water Level (Static): 37'
Logged By (Geol.): JM

Permit No.: BA-10-0456
License No.: JWD314
Checked By: JM
Notes: Well at 14315 Jarrettsville Pike
Boring pre-cleared to 8' by
Airknife/Vac.

SUBSURFACE PROFILE

SAMPLE

Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
0		Ground Surface	NA			0
1		SM Brown, dry, silty SAND with gravel, micaceous		0.0	6" Steel Casing (0'-70')	1
2			0.0	2		
3			0.0	3		
4			0.0	4		
5			0.0	5		
6			0.0	6		
7			0.0	7		
8			0.0	8		
9			0.0	9		
10		SM Brown, dry, silty SAND, micaceous, very fast/soft drilling		0.0	GROUT (0'-70')	10
11				11		
12				12		
13				13		
14				14		
15				15		
16				16		
17				17		
18				18		
19		SM Brown, dry, silty SAND with gravel, micaceous, weathered rock, fast/soft drilling		0.0	GROUT (0'-70')	19
20				20		
21				21		
22				22		
23				23		
24				24		
25				25		
26				26		
27				27		
28			28			
29		SM Brown, moist, silty SAND, micaceous, weathered rock, soft/fast drilling		0.0	GROUT (0'-70')	29
30				30		
31				31		
32				32		
33				33		
34				34		
35				35		
36				36		
37				37		
38			38			
39			39			
40			40			
41			41			
42			42			
43			43			
44			44			
45			45			
46			46			
47			47			
48			48			
49			49			
50			50			

VOC - Volatile Organic Compound
NA - Not Applicable
NS - Not Sampled
NR - Not Recorded
NM - Not Measured
NE - Not Encountered
ppm - parts per million

USCS - Unified Soil Classification System
WOR - weight of rod
WH - weight of hammer



1340 Charwood Road, Suite I
Hanover, MD 21076
(410) 850-0404

BORING LOG
Well No. MW-186D

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Carey Knaub
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 12/06/2013
End Date: 12/14/2013
Total Hole Depth: 428'
Hole Diameter: 6-10"
Depth to Bedrock: 56'
Top-Of-Casing Elevation: TBD
Water Level (Initial): 35.5'
Water Level (Static): 37'
Logged By (Geol.): JM

Permit No.: BA-10-0456
License No.: JWD314
Checked By: JM
Notes: Well at 14315 Jarrettsville Pike
Boring pre-cleared to 8' by
Airknife/Vac.

SUBSURFACE PROFILE

SAMPLE

Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
51						51
52				0.0		52
53				0.0		53
54				0.0		54
55				0.0		55
56		BR				56
57		Brown, moist, SCHIST, micaceous, quartz fragment, slow/harder drilling		0.0		57
58				0.0		58
59				0.0		59
60				0.0		60
61				0.0		61
62				0.0		62
63				0.0		63
64		BR				64
65		Brown, wet, SCHIST, micaceous, quartzose, slow/hard drilling		0.0		65
66				0.0		66
67				0.0		67
68				0.0		68
69				0.0		69
70				0.0		70
71		BR				71
72		Brown, wet, SCHIST (micaceous) with fine to coarse gravel/sized quartz and amphibolite		<1.0		72
73				<1.0		73
74		BR				74
75		SCHIST, micaceous, quartzose, cuttings are gray, slow/hard drilling		<1.0		75
76				<1.0		76
77				<1.0		77
78				<1.0		78
79				<1.0		79
80				<1.0		80
81				<1.0		81
82				<1.0		82
83				<1.0		83
84				<1.0		84
85				<1.0		85
86				<1.0		86
87				<1.0		87
88				<1.0		88
89				<1.0		89
90				<1.0		90
91				<1.0		91
92				<1.0		92
93				<1.0		93
94				<1.0		94
95				<1.0		95
96				<1.0		96
97				<1.0		97
98				<1.0		98
99				<1.0		99
100				<1.0		100

Open Hole (70'-428')

VOC - Volatile Organic Compound
NA - Not Applicable
NS - Not Sampled
NR - Not Recorded
NM - Not Measured
NE - Not Encountered
ppm - parts per million

USCS - Unified Soil Classification System
WOR - weight of rod
WH - weight of hammer



1340 Charwood Road, Suite I
Hanover, MD 21076
(410) 850-0404

BORING LOG
Well No. MW-186D

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No.: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Carey Knaub
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 12/06/2013
End Date: 12/14/2013
Total Hole Depth: 428'
Hole Diameter: 6-10"
Depth to Bedrock: 56'
Top-Of-Casing Elevation: TBD
Water Level (Initial): 35.5'
Water Level (Static): 37'
Logged By (Geol.): JM

Permit No.: BA-10-0456
License No.: JWD314
Checked By: JM
Notes: Well at 14315 Jarrettsville Pike
Boring pre-cleared to 8' by
Airknife/Vac.

SUBSURFACE PROFILE

SAMPLE

Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
101						101
102				<1.0		102
103						103
104						104
105						105
106						106
107				<1.0		107
108						108
109						109
110						110
111						111
112				<1.0		112
113						113
114						114
115						115
116						116
117						117
118				<1.0		118
119						119
120						120
121						121
122						122
123				<1.0		123
124						124
125						125
126						126
127						127
128				<1.0		128
129						129
130						130
131						131
132						132
133				<1.0		133
134						134
135						135
136						136
137						137
138				<1.0		138
139						139
140						140
141						141
142						142
143				<1.0		143
144						144
145						145
146						146
147						147
148				<1.0		148
149						149
150						150

VOC - Volatile Organic Compound USCS - Unified Soil Classification System
 NA - Not Applicable WOR - weight of rod
 NS - Not Sampled WH - weight of hammer
 NR - Not Recorded
 NM - Not Measured
 NE - Not Encountered
 ppm - parts per million



1340 Charwood Road, Suite I
Hanover, MD 21076
(410) 850-0404

BORING LOG
Well No. MW-186D

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No.: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Carey Knaub
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 12/06/2013
End Date: 12/14/2013
Total Hole Depth: 428'
Hole Diameter: 6-10"
Depth to Bedrock: 56'
Top-Of-Casing Elevation: TBD
Water Level (Initial): 35.5'
Water Level (Static): 37'
Logged By (Geol.): JM

Permit No.: BA-10-0456
License No.: JWD314
Checked By: JM
Notes: Well at 14315 Jarrettsville Pike
Boring pre-cleared to 8' by
Airknife/Vac.

SUBSURFACE PROFILE

SAMPLE

Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
151						151
152						152
153				<1.0		153
154						154
155						155
156						156
157				<1.0		157
158						158
159						159
160						160
161						161
162				<1.0		162
163						163
164						164
165						165
166						166
167						167
168				<1.0		168
169						169
170						170
171						171
172						172
173				<1.0		173
174						174
175						175
176						176
177						177
178				<1.0		178
179						179
180						180
181						181
182				<1.0		182
183						183
184						184
185						185
186						186
187				<1.0		187
188						188
189						189
190						190
191						191
192				<1.0		192
193						193
194						194
195						195
196						196
197				<1.0		197
198						198
199						199
200						200

VOC - Volatile Organic Compound USCS - Unified Soil Classification System
 NA - Not Applicable WOR - weight of rod
 NS - Not Sampled WH - weight of hammer
 NR - Not Recorded
 NM - Not Measured
 NE - Not Encountered
 ppm - parts per million



1340 Charwood Road, Suite I
Hanover, MD 21076
(410) 850-0404

BORING LOG
Well No. MW-186D

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Carey Knaub
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 12/06/2013
End Date: 12/14/2013
Total Hole Depth: 428'
Hole Diameter: 6-10"
Depth to Bedrock: 56'
Top-Of-Casing Elevation: TBD
Water Level (Initial): 35.5'
Water Level (Static): 37'
Logged By (Geol.): JM

Permit No.: BA-10-0456
License No.: JWD314
Checked By: JM
Notes: Well at 14315 Jarrettsville Pike
Boring pre-cleared to 8' by
Airknife/Vac.

SUBSURFACE PROFILE

SAMPLE

Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
201						201
202						202
203				<1.0		203
204						204
205						205
206						206
207				<1.0		207
208						208
209						209
210						210
211						211
212				<1.0		212
213						213
214						214
215						215
216						216
217						217
218				<1.0		218
219						219
220						220
221						221
222						222
223				<1.0		223
224						224
225						225
226						226
227						227
228				<1.0		228
229						229
230						230
231						231
232						232
233				<1.0		233
234						234
235						235
236						236
237						237
238				<1.0		238
239						239
240						240
241						241
242						242
243				<1.0		243
244						244
245						245
246						246
247						247
248				<1.0		248
249						249
250						250

VOC - Volatile Organic Compound USCS - Unified Soil Classification System
 NA - Not Applicable WOR - weight of rod
 NS - Not Sampled WH - weight of hammer
 NR - Not Recorded
 NM - Not Measured
 NE - Not Encountered
 ppm - parts per million



1340 Charwood Road, Suite I
Hanover, MD 21076
(410) 850-0404

BORING LOG
Well No. MW-186D

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Carey Knaub
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 12/06/2013
End Date: 12/14/2013
Total Hole Depth: 428'
Hole Diameter: 6-10"
Depth to Bedrock: 56'
Top-Of-Casing Elevation: TBD
Water Level (Initial): 35.5'
Water Level (Static): 37'
Logged By (Geol.): JM

Permit No.: BA-10-0456
License No.: JWD314
Checked By: JM
Notes: Well at 14315 Jarrettsville Pike
Boring pre-cleared to 8' by
Airknife/Vac.

SUBSURFACE PROFILE

SAMPLE

Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
251						251
252						252
253				<1.0		253
254						254
255						255
256						256
257				<1.0		257
258						258
259						259
260						260
261						261
262				<1.0		262
263						263
264						264
265						265
266		BR				266
267		SCHIST, quartzose, biotite, dark gray cuttings, slow/hard drilling		<1.0		267
268						268
269		BR				269
270		SCHIST, quartzose, muscovite rich, lighter gray cuttings, slow/hard drilling		<1.0		270
271						271
272						272
273		BR		<1.0		273
274		SCHIST, quartzose, micaceous, gray cuttings, slow/hard drilling				274
275						275
276						276
277						277
278				<1.0		278
279						279
280						280
281						281
282				<1.0		282
283						283
284						284
285						285
286						286
287						287
288				<1.0		288
289						289
290						290
291						291
292				<1.0		292
293						293
294						294
295						295
296						296
297				<1.0		297
298						298
299						299
300						300

VOC - Volatile Organic Compound
NA - Not Applicable
NS - Not Sampled
NR - Not Recorded
NM - Not Measured
NE - Not Encountered
ppm - parts per million

USCS - Unified Soil Classification System
WOR - weight of rod
WH - weight of hammer



1340 Charwood Road, Suite I
Hanover, MD 21076
(410) 850-0404

BORING LOG
Well No. MW-186D

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No.: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Carey Knaub
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 12/06/2013
End Date: 12/14/2013
Total Hole Depth: 428'
Hole Diameter: 6-10"
Depth to Bedrock: 56'
Top-Of-Casing Elevation: TBD
Water Level (Initial): 35.5'
Water Level (Static): 37'
Logged By (Geol.): JM

Permit No.: BA-10-0456
License No.: JWD314
Checked By: JM
Notes: Well at 14315 Jarrettsville Pike
Boring pre-cleared to 8' by
Airknife/Vac.

SUBSURFACE PROFILE

SAMPLE

Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
301						301
302						302
303				<1.0		303
304						304
305						305
306						306
307				<1.0		307
308						308
309						309
310						310
311						311
312				<1.0		312
313						313
314		BR				314
315		GNEISS, quartz, amphibote, epidote, micas, grayish green cuttings, very slow/hard drilling				315
316						316
317				<1.0		317
318						318
319						319
320						320
321						321
322						322
323				<1.0		323
324						324
325						325
326						326
327						327
328				<1.0		328
329						329
330						330
331						331
332						332
333				<1.0		333
334						334
335						335
336						336
337						337
338				<1.0		338
339						339
340						340
341						341
342						342
343				<1.0		343
344						344
345						345
346						346
347						347
348				<1.0		348
349						349
350						350

VOC - Volatile Organic Compound USCS - Unified Soil Classification System
 NA - Not Applicable WOR - weight of rod
 NS - Not Sampled WH - weight of hammer
 NR - Not Recorded
 NM - Not Measured
 NE - Not Encountered
 ppm - parts per million



1340 Charwood Road, Suite I
Hanover, MD 21076
(410) 850-0404

BORING LOG
Well No. MW-186D

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No.: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Carey Knaub
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 12/06/2013
End Date: 12/14/2013
Total Hole Depth: 428'
Hole Diameter: 6-10"
Depth to Bedrock: 56'
Top-Of-Casing Elevation: TBD
Water Level (Initial): 35.5'
Water Level (Static): 37'
Logged By (Geol.): JM

Permit No.: BA-10-0456
License No.: JWD314
Checked By: JM
Notes: Well at 14315 Jarrettsville Pike
Boring pre-cleared to 8' by
Airknife/Vac.

SUBSURFACE PROFILE

SAMPLE

Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)	
351		BR GNEISS, quartz, amphibote, epidote, micas, grayish green cuttings, very slow/hard drilling		<1.0		351	
352							352
353							353
354							354
355							355
356							356
357							357
358							358
359							359
360							360
361		fracture at 360' (drill bit chattered)		<1.0		361	
362							362
363							363
364							364
365							365
366							366
367							367
368							368
369							369
370							370
371		fracture at 382' (drill bit chattered)		<1.0		371	
372							372
373							373
374							374
375							375
376							376
377							377
378							378
379							379
380							380
381		BR SCHIST, quartzose, micaceous, gray cuttings, slow/hard drilling		<1.0		381	
382							382
383							383
384							384
385							385
386							386
387							387
388							388
389							389
390							390
391				<1.0		391	
392							392
393							393
394							394
395							395
396							396
397							397
398							398
399							399
400							400

VOC - Volatile Organic Compound USCS - Unified Soil Classification System
 NA - Not Applicable WOR - weight of rod
 NS - Not Sampled WH - weight of hammer
 NR - Not Recorded
 NM - Not Measured
 NE - Not Encountered
 ppm - parts per million



1340 Charwood Road, Suite I
Hanover, MD 21076
(410) 850-0404

BORING LOG
Well No. MW-186D

Project Name: Inactive Exxon Facility # 28077
Site Location: 14258 Jarrettsville Pike
Kleinfelder Project No.: 138681
Client: ExxonMobil
Drilling Company: Eichelbergers
Driller: Carey Knaub
Drill Rig Type: Ingersoll-Rand T4W
Drilling Method: Air Rotary
Sampling Method: Hand Auger/Cuttings

Start Date: 12/06/2013
End Date: 12/14/2013
Total Hole Depth: 428'
Hole Diameter: 6-10"
Depth to Bedrock: 56'
Top-Of-Casing Elevation: TBD
Water Level (Initial): 35.5'
Water Level (Static): 37'
Logged By (Geol.): JM

Permit No.: BA-10-0456
License No.: JWD314
Checked By: JM
Notes: Well at 14315 Jarrettsville Pike
Boring pre-cleared to 8' by
Airknife/Vac.

SUBSURFACE PROFILE

SAMPLE

Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
401						401
402				<1.0		402
403						403
404						404
405						405
406						406
407				<1.0		407
408						408
409						409
410						410
411						411
412				<1.0		412
413						413
414						414
415						415
416						416
417						417
418				<1.0		418
419						419
420						420
421						421
422						422
423				<1.0		423
424						424
425						425
426						426
427				<1.0		427
428				<1.0		428
429		End of Borehole				429
430						430
431						431
432						432
433						433
434						434
435						435
436						436
437						437
438						438
439						439
440						440
441						441
442						442
443						443
444						444
445						445
446						446
447						447
448						448
449						449
450						450

VOC - Volatile Organic Compound USCS - Unified Soil Classification System
 NA - Not Applicable WOR - weight of rod
 NS - Not Sampled WH - weight of hammer
 NR - Not Recorded
 NM - Not Measured
 NE - Not Encountered
 ppm - parts per million

APPENDIX C



**Final Report
Borehole Geophysical Logging Program
Two Wells – MW-73C, and MW-186D
Phoenix, MD
MAG Reference Number 011422**

**Prepared For: Kleinfelder
Prepared By: Mid-Atlantic Geosciences
February 18, 2014**





February 18, 2014

Ms. Stacey Schiding
Kleinfelder
1340 Charwood Road
Suite 201
Hanover, MD 21076

RE: Borehole Geophysical Logging Program
Two Wells – MW-73C, and MW-186D
Phoenix, MD
MAG Reference Number 011422

Dear Ms. Schiding:

Pursuant to our proposal dated January 21, 2014, Mid-Atlantic Geosciences (MAG – the borehole logging division of Enviroscan, Inc.) completed the above-referenced survey on February 4 through February 7, 2014. The objective of the survey was to locate and characterize fractures and potential water-bearing zones intersecting the wells. To accomplish these objectives, MAG conducted Optical Televiwer, Acoustic Televiwer, 3-Arm Caliper, Fluid Temperature, Fluid Conductivity, Natural Gamma, and Heat Pulse Flowmeter logging in the wells.

Logging Equipment

Mid-Atlantic Geosciences conducts borehole geophysics, televiwer, and video logging using a Robertson Geologging, Ltd. Micrologger II and/or a Mount Sopris Matrix. These units record digital data for on-site log playback, reproduction, and field interpretation, as well as post-processing and report presentation. The systems are driven by field PCs running software supplied by the manufacturer for data acquisition, log replay, probe control, probe calibration, and logging environment compensation. Video data (if collected) are recorded in real time to the hard drive of a DVD player/recorder, and can be burned in the field to a DVD that is left with the client's on-site representative.

All of the logging instruments are permanently mounted in a dedicated Ford F350 or Dodge RAM2500 enclosed-bed truck, each with a self-contained power supply, and support and decontamination equipment. The downhole probes or sondes are connected to either a Robertson Geologging Smartwinch with approximately 600 feet of 0.375-inch coaxial cable, or a Robertson 2000m winch with approximately 3000 feet of 0.25-inch coaxial cable – depending on the depth of the wells logged.



Ms. Schiding
February 18, 2014
Page 2

Decontamination Procedure

Prior to Mid-Atlantic departure to a site, the winch cable and sondes scheduled for use are decontaminated to ensure the quality of sampling by preventing cross-contamination. The procedure described below is implemented both before and after logging of the wells.

The equipment used for decontamination is listed below.

- Distilled water
- Liquinox detergent 1:100 solution (mixed with distilled water)
- Stiff-bristle brush
- Manual pump spray bottle
- Heavy duty paper towels
- 5-gallon bucket with lid

Procedure

1. A decontamination area is designated and set-up.
2. Proper personal protective equipment is donned (i.e. nitrile gloves, safety glasses).
3. Sondes are removed from their containers and placed in the decontamination area.
4. Mixed detergent solution is applied to each sonde with a manual pump spray bottle.
5. Sondes are manually wiped down with a paper towel or scrubbed with a stiff bristle brush, depending on the amount of mud or dirt on the sonde.
6. Sondes are rinsed with distilled water and dried with a paper towel.
7. Discarded water is captured in a 5-gallon bucket and sealed for proper disposal and not allowed to infiltrate the soil.
8. If a sonde is still visibly contaminated, the process is repeated as necessary.
9. Decontamination of the winch cable is performed during the first deployment of a sonde down a borehole and on the last retrieval of a sonde for each borehole.
10. Mixed detergent solution is sprayed on paper towels and the cable is wiped down on its initial deployment down a borehole.
11. Paper towels are monitored for cleanliness and replaced as necessary.
12. Cable decontamination process is repeated on the final recovery of a sonde for each borehole.

Ms. Schiding
February 18, 2014
Page 3

Logging Parameters and Methodology

Geophysical well logging in general involves lowering sondes in a borehole and recording parameters that are related to the properties of the adjacent soil or rock, the fluids in the borehole or formation, and/or construction details of the well. There are many tools and techniques that have been developed to provide specific information in different environments and constructions of drilled holes. The data collected can define the nature and extent of geologic formations and formation fluids, and can be used to provide correlation between holes.

The sondes used for this survey are described below. Note that before any of these tools are put into service for a particular job, MAG personnel test them for proper function and recalibrate as necessary. This is essential to the proper acquisition of downhole data and the ability to relate the data from one borehole to another.

Optical Televiewer

The borehole optical televiewer (OPTV) or Optical Borehole Imager (OBI) provides a high-resolution digital optical scan of the interior of a borehole using visible wavelength light. From the accurately-scaled, continuous image it is possible to identify the depth and character of features such as fractures, bedding planes, veins, solution openings, etc. In particular, it is possible to calculate the strike, dip, and aperture of planar features. The OPTV operates by using a high-resolution color downhole camera which views a reflection of the borehole walls in a hyperbolic correction mirror. At successive depth increments of 0.5 mm, rings of pixels corresponding to circular scans of the borehole wall are acquired from the probe and stacked into a continuous image. The image is rectangular – representing the interior of a cylinder that has been sliced open and rolled-out flat. The image is oriented to north based on data from three magnetometers and accelerometers in the sonde. Note that the use of magnetometers for orientation leads to image distortion in steel-cased holes, and within several feet of the base of steel casing in open holes. All OPTV sondes require an open borehole, or one filled with a clear fluid.

Ms. Schiding
February 18, 2014
Page 4

Planar features intersecting a cylindrical borehole appear sinusoidal on the flattened cylindrical image. The azimuth of the peak/trough of the sinusoid, and the amplitude of the sinusoid can be measured and used to calculate the strike and dip (see Appendix A) of such features. Based on their visual character, planar features on the optical televiewer (and HRAT – see below) logs have been categorized on the log sheets as various types of geologic interface (fractures, bedding planes, foliation, etc.). Once sinusoids were fit to the structures they were classified according to Table 1 and then corrected for borehole tilt. Data were subsequently corrected for declination using NOAA's "Estimated Value of Magnetic Declination" online calculator for each well location.

Tables listing the depth, aperture, strike, dip and type of feature are included in this report, for each well, as Appendix B. Feature apertures are listed in tenths of an inch. An aperture of zero for an open fracture simply means that while it appears to be a continuous open feature, the opening is smaller than the line thickness on the log (~0.019 inches).

Note also that it has been the experience of MAG that the aperture of a feature is not always a strong indicator of its water-producing potential. Thin, discrete features sometimes produce as much or more water (as evidence by flowmeter logging – see below) than wide, open fractures or fracture zones.

Acoustic Televiewer

The high-resolution acoustic televiewer (HRAT) provides a scan or image of the interior of the borehole that is created not by reflected visible wavelength light, but by reflected ultrasound. Since ultrasonic pulses are used, it is possible to record both the amplitude and travel time of each pulse, and construct two separate images. The amplitude log is analogous to a visual scan, while the travel time data are affected primarily by the local diameter of the borehole (i.e. the larger the bore, the later the arrival of the reflected pulse), and therefore can supplement or replace a caliper log. The main advantage of the HRAT probe is that it can be used in larger boreholes than optical tools, and in holes with turbid or particle-loaded fluids that would be opaque to optical methods.

The HRAT operates by using a fixed acoustic transducer and a rotating acoustic mirror capable of focusing on the borehole wall at any distance from the probe diameter upwards. The acoustic transducer is focused based on the borehole diameter and impedance-matched to the borehole fluid to provide optimum image resolution and reflected amplitude. Mirror rotation speed (i.e. circumferential resolution), sampling rate (i.e. depth resolution), signal gain (i.e. amplitude image contrast), and recording time gate (i.e. travel time image contrast) are all variable and under operator control to provide the best image possible under borehole-specific conditions.

Ms. Schiding
February 18, 2014
Page 5

HRAT logs are presented as accurately-scaled and accurately-oriented cylindrical images that are sliced open and laid flat. Therefore, planar dipping features appear as sinusoids from which the strike and dip of the feature can be calculated (see Appendix A). Selected and representative televiwer features are listed in Appendix B and on the log sheet. Based on their visual character, planar features have been categorized as various types of geologic interface (fractures, bedding planes, foliation, etc.). Feature apertures are listed in tenths of an inch. An aperture of zero for an open fracture simply means that while it appears to be a continuous open feature, the opening is smaller than the line thickness on the log (~0.019 inches).

Caliper

Caliper measurements represent the average diameter of the borehole or well at a given depth. The caliper tool collects and transmits the data from three spring-loaded arms as the tool is lifted upwards through the borehole. The caliper tool is used to locate solution openings or fractures (where the borehole is typically enlarged due either to the presence of natural openings, or to plucking of broken rock by the drill bit), and to determine the length of casing intervals (as evident from small changes in casing diameter, or the small enlargements at threaded junctions, or narrowing due to the bead at welded junctions).

Caliper logs are collected by calibrating the downhole tool with a measuring template, lowering the tool to the base of the well, remotely opening the arms, and then logging the open borehole and casing diameter in an upward direction. Caliper logs are acquired with a logging speed of no more than 12 feet per minute.

Fluid Temperature

Fluid temperature logs provide the temperature of the air or fluid in a borehole as a function of depth. Temperature logs can indicate where water is entering or leaving a borehole – and thereby disturbing the normal geothermal gradient. Deviations, offsets, or changes in the slope of the temperature log can be used to locate zones of water movement within the borehole. Temperature logs must be run in wells that have been allowed to fully equilibrate to the local geothermal gradient following any prior drilling, construction, pumping or sampling. During a temperature survey, data accuracy is ensured by maintaining a downward logging speed of approximately 10 feet per minute (fpm). This provides an adequate time buffer to allow sensors to respond to minor temperature changes.

Ms. Schiding
February 18, 2014
Page 6

Fluid Conductivity

Fluid conductivity logs provide a continuous measurement of the electrical conductivity of the borehole fluid – i.e. zero in air or hydrocarbons, greater than zero in water. In water, electrical conductivity is mostly a function of electrolytic content. Water with very low dissolved solid concentrations will yield low fluid conductivity, while water containing a high level of dissolved solids will be proportionally more conductive. Fluid conductivity logs often deflect where water-producing features are transmitting water into or out of the well (since the well water may have a differing electrolytic chemistry than the formation water). The fluid conductivity log is usually collected simultaneously with the temperature log – since for both, data from a fully equilibrated water column is required.

Natural Gamma

Gamma logs are one of the most widely used geophysical logs in groundwater applications. They are used primarily to identify changes in lithology – specifically the relative amounts of clay in various sedimentary units.

A gamma log provides a record of the total natural gamma radiation detected within a given energy range. In water-bearing rocks and sediments that are not contaminated by artificial radioisotopes, the most significant naturally-occurring, gamma-emitting radioisotopes are potassium-40 and the daughter products of the uranium and thorium decay series. If gamma-emitting artificial radioisotopes have been introduced by humans into the groundwater system, they will also produce part of the radiation measured.

The amplitude of gamma-log deflections is affected by any borehole condition that alters the density of the material through which gamma photons must pass or the length of the travel path. The bedding of a gamma-emitting formation must be thick to obtain a quantitative value since the detector will be affected by the radiation from the formation as the tool approaches and passes the bed. Although increases in borehole diameter or the presence of steel casing will decrease the recorded gamma count, it is possible to collect usable information in both cased and open portions of the borehole using the gamma sonde. The presence of potassium-rich (and therefore gamma-emitting) bentonite clay commonly used in well construction will generally produce high gamma count peaks on a natural gamma log. MAG has natural gamma detectors on many sondes, and comparison of the multiple gamma logs collected for any given well logging program are used to ensure that the depths of differing logs are not erroneously shifted. Therefore, the gamma log presented for any well may have been collected simultaneously with any of the other logs from the same well.

Ms. Schiding
February 18, 2014
Page 7

Heat Pulse Flowmeter

Unlike all other logs that are continuous records of some parameter versus depth, heat pulse flowmeter (HPFM) logs are made with the sonde stationary in the borehole at discrete depth intervals or at stations selected to suit a particular study. In the sonde, large capacitors are charged from the surface power supply and can be discharged rapidly on command through a high resistance wire grid (like the heating elements on an electric stove). The discharge creates an infinitesimally thin disc of heated water. By conduction alone, the heat in this disc disperses slowly due to the poor heat conduction of water. In addition, the slight change in density of the heated water will cause it to rise very slowly (i.e. by convection). However, in the presence of vertical flow, the heated disc of water will move up or down with the flow velocity. In the sonde, thermistors are set at fixed equal distances above and below the heating grid, and sense the passage of the heated disc. Prior to firing the heating element, the two thermistor outputs are equalized so it is possible to interpret any subsequent differential output as a relative change in temperatures between thermistors. The temperature differential data is sent to the surface where the flow rate (in fpm) can be calculated based on the known positions of the thermistors. If the borehole diameter is known, the flow in fpm can be converted to gallons per minute (gpm). Note that by convention, negative flow values represent downward flow.

The main limitation of the heat pulse flowmeter is that it can only accurately measure the vertical component of flow in a borehole. Any horizontal flow cannot be quantified due to the location of the thermistors relative to the heat grid. This factor must be taken into consideration when interpreting heat pulse flowmeter data. Unfortunately, there is no reliable tool for measuring horizontal flow in a borehole. In addition, please note that even in the presence of water-bearing features, vertical flow will only occur in a static well if it intersects two or more features with differing hydraulic heads. For example, a well might intersect just a single, highly productive zone, but since there is no other zone with a different head, the only static flow in the well would be horizontal (across the well - if at all). Therefore, lack of vertical flow under static conditions does not necessarily imply an absence of hydrogeologically important features.

The heat pulse flowmeter is typically operated after the borehole has stabilized from the effects of any prior logging runs in the borehole. In addition, after moving the sonde itself, the hole is allowed to equilibrate before taking any measurements. At each station, multiple measurements are usually recorded to ensure repeatability. The borehole is also allowed to equilibrate between successive measurements at a given station to ensure that the measured flow is due to natural flow conditions, and not conduction or convection from previous measurements. The heat pulse flowmeter is typically run under static conditions and may not quantify flow in some water-producing zones where there is only horizontal flow and/or no head difference between adjacent features. However, in some cases, these zones may be identified by recording heat pulse flowmeter data under stressed or pumping conditions which induce artificial head differences.

Ms. Schiding
February 18, 2014
Page 8

Logging Results

The wells were logged on February 4 through February 7, 2014. The logging results for the wells are presented on the enclosed digital logs and tables, and briefly summarized below.

Note that since analysis of borehole geophysical logs can be quite subjective, and the level of detail is dependent upon the specific goals of the geologist, the analysis by MAG below covers the major features of each log, as well as some possibly minor features to serve as examples or guides for further interpretation by geologists familiar with the site, local geology, and/or project goals. In general, logs may display deviations (i.e. “spikes” where the parameter deviates from, and then returns to, “background” level), offsets (changes in background level), or slope changes. Any of these could be considered significant in certain situations, or when compared to correlating features at the same depth on other logs. If there are any questions about the features discussed (or not discussed) below, please do not hesitate to contact MAG.

Ms. Schiding
February 18, 2014
Page 9

MW-73C

Noted Features

- The total depth (TD) of the well was logged at approximately 298.2 feet below ground surface (BGS).
- The depth to water (DTW) was measured at 91.8 feet BGS at the time of the survey.
- The diameter of the casing at the surface was measured to be six inches, and the bottom of the casing (BOC) was located at approximately 124.2 feet BGS.
- The caliper (borehole diameter) log reveals one borehole enlargement located at 166 feet BGS.
- The fluid temperature log shows no deviations, offsets, or changes in slope.
- The fluid conductivity log shows a change in slope located at 166 feet BGS.
- Planar features were recognizable on the televiewer logs. The depth, strike, dip, aperture, and feature type are listed on the log, as well as on the accompanying table in Appendix B.
- The natural gamma logs show generally smooth variations that are probably related primarily to the clay content of the formation.
- The bottom of the well is offset from the wellhead by about 21 feet in the direction S28°E, with the deviation increasing with depth (Appendix C).

Ms. Schiding
 February 18, 2014
 Page 10

- Based primarily on the locations of caliper anomalies and televiewer features recognized in the field, eight stations or depths were selected for heat pulse flowmeter measurements. The recorded flows (based on an averaging of three to seven individual measurements per station) are listed below, with positive being upward.

Depth (feet BGS)	Vertical Flow (GPM)
100	0
135	0
165	0
185	0.02
205	0.02
235	0
265	0
295	0

Ms. Schiding
February 18, 2014
Page 11

MW-186D

Noted Features

- The total depth (TD) of the well was logged at approximately 424 feet below ground surface (BGS).
- The depth to water (DTW) was measured at 51 feet BGS at the time of the survey.
- The diameter of the casing at the surface was measured to be six inches, and the bottom of the casing (BOC) was located at approximately 69.2 feet BGS.
- The caliper (borehole diameter) log reveals borehole enlargements located at 81, 175, 181.5, 330.5, and 334 feet BGS. Also due to the deviation of the borehole, the mechanical caliper started to collapse at approximately 265 feet BGS which accounts for the decreasing diameter measurement with depth.
- The fluid temperature log shows no deviations, offsets, or changes in slope.
- The fluid conductivity log shows an offset located at 328 feet BGS.
- Planar features were recognizable on the televiewer logs. The depth, strike, dip, aperture, and feature type are listed on the log, as well as on the accompanying table in Appendix B.
- The natural gamma logs show generally smooth variations that are probably related primarily to the clay content of the formation.
- The bottom of the well is offset from the wellhead by about 102 feet in the direction S34°E, with the deviation increasing with depth (Appendix C).

Ms. Schiding
 February 18, 2014
 Page 12

- Based primarily on the locations of caliper anomalies and televiewer features recognized in the field, fourteen stations or depths were selected for heat pulse flowmeter measurements. The recorded flows (based on an averaging of three to seven individual measurements per station) are listed below, with positive being upward.

Depth (feet BGS)	Vertical Flow (GPM)
60	0
85	0
110	0
135	0.02
160	0
185	0
210	0.02
235	0
260	0
310	0
335	0
360	0
385	0
410	0

Limitations

In making verbal or written interpretation of logs, MAG personnel give the client the benefit of their best professional judgment. However, since all interpretations are based on inference from electrical, magnetic, or other indirect measurements, MAG does not, and cannot, guarantee the accuracy or the correctness of any such interpretations. MAG shall not be liable for any loss, damages, or expenses resulting from reliance on such interpretations. MAG does not warrant the accuracy of log data transmitted by any electronic process and will not be responsible for intentional interpretation of log data by others. MAG makes no warranties – neither explicit nor implied. Under no circumstances shall MAG, its parent company Enviroscan, Inc., or their personnel be liable for consequential damages.

Ms. Schiding
February 18, 2014
Page 13

We appreciate this opportunity to have worked with you again. If you have any questions, please do not hesitate to contact me.

Sincerely,
Mid-Atlantic Geosciences



Christopher Lash
Geophysics Project Manager

Technical Review By:
Mid-Atlantic Geosciences



Felicia Kegel Bechtel, M.Sc., P.G.
President

enc.: MW-73C – Geophysical, Televiwer, and Flow Logs
MW-186D – Geophysical, Televiwer, and Flow Logs
Table 1: Planar Feature Characterizations
Appendix A: Planar Feature Orientation Parameters
Appendix B: Planar Feature Characterizations Tables
Appendix C: Borehole Deviation Plots



Mid-Atlantic Geosciences

Title: Borehole Geophysical Logging Program

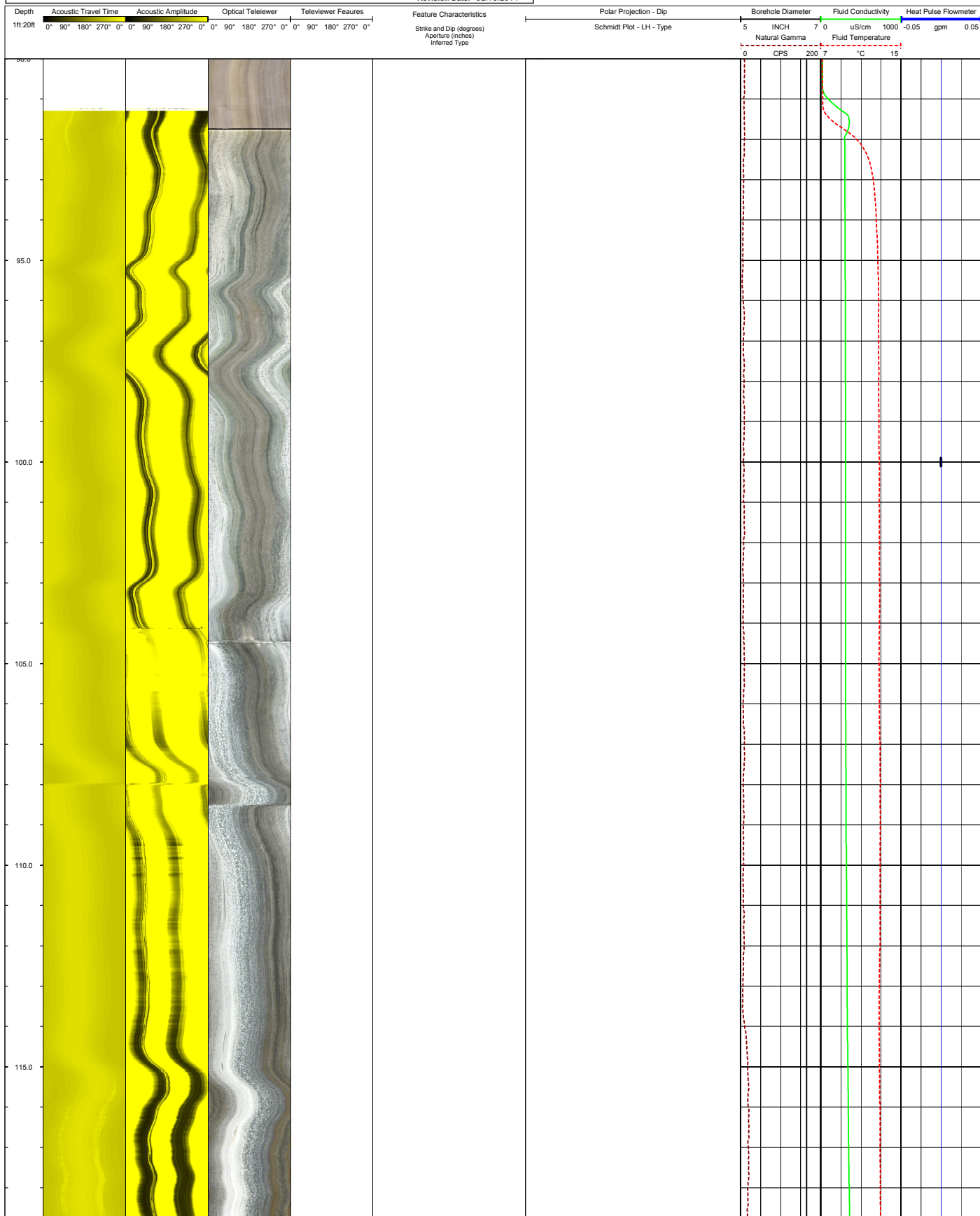
WELL ID
MW-73C

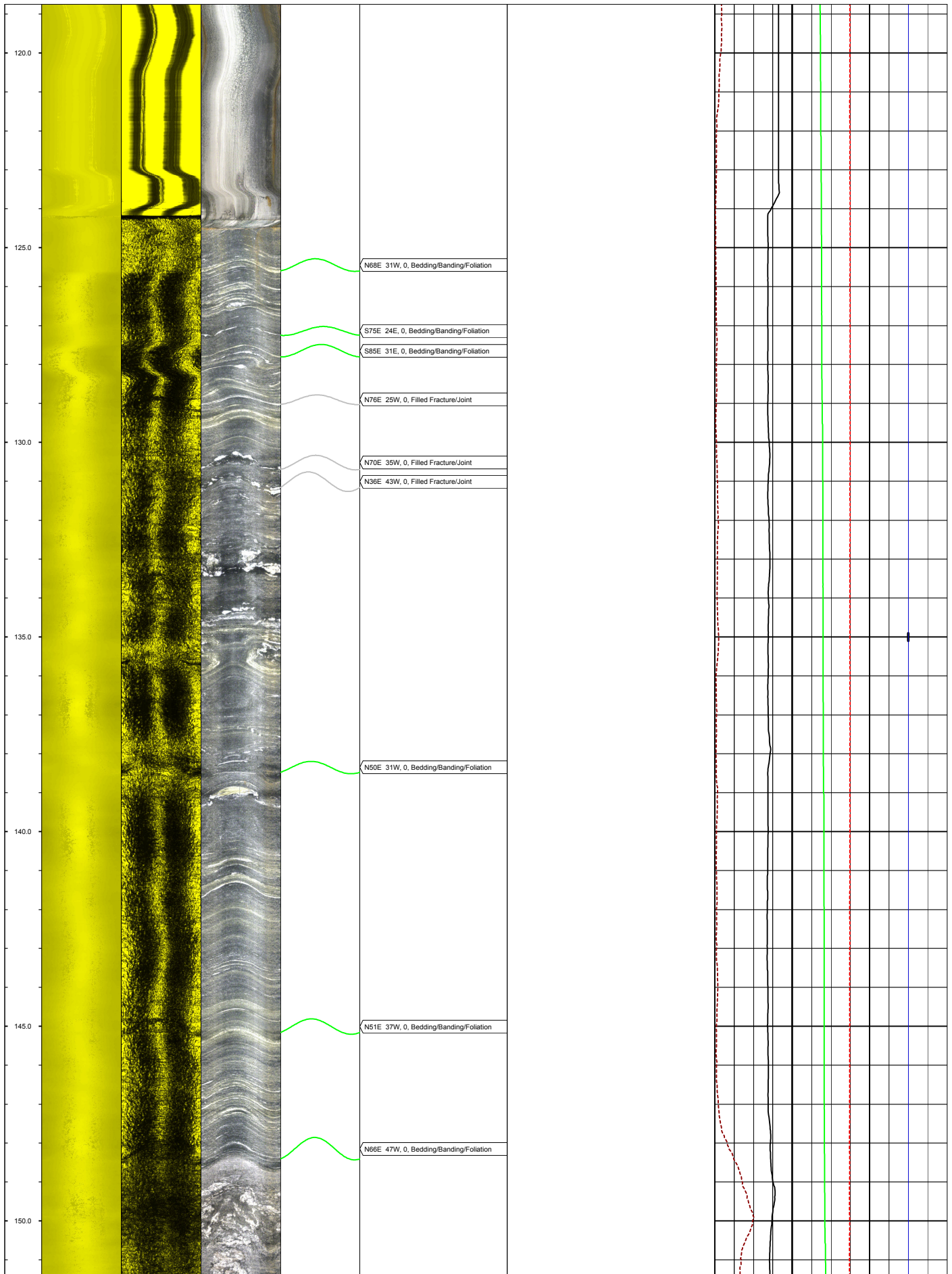
Logging Date: 02.04.2014
Logging Datum: Ground Surface
BOC: 124.2' DTW: 91.8' TD: 298.2'

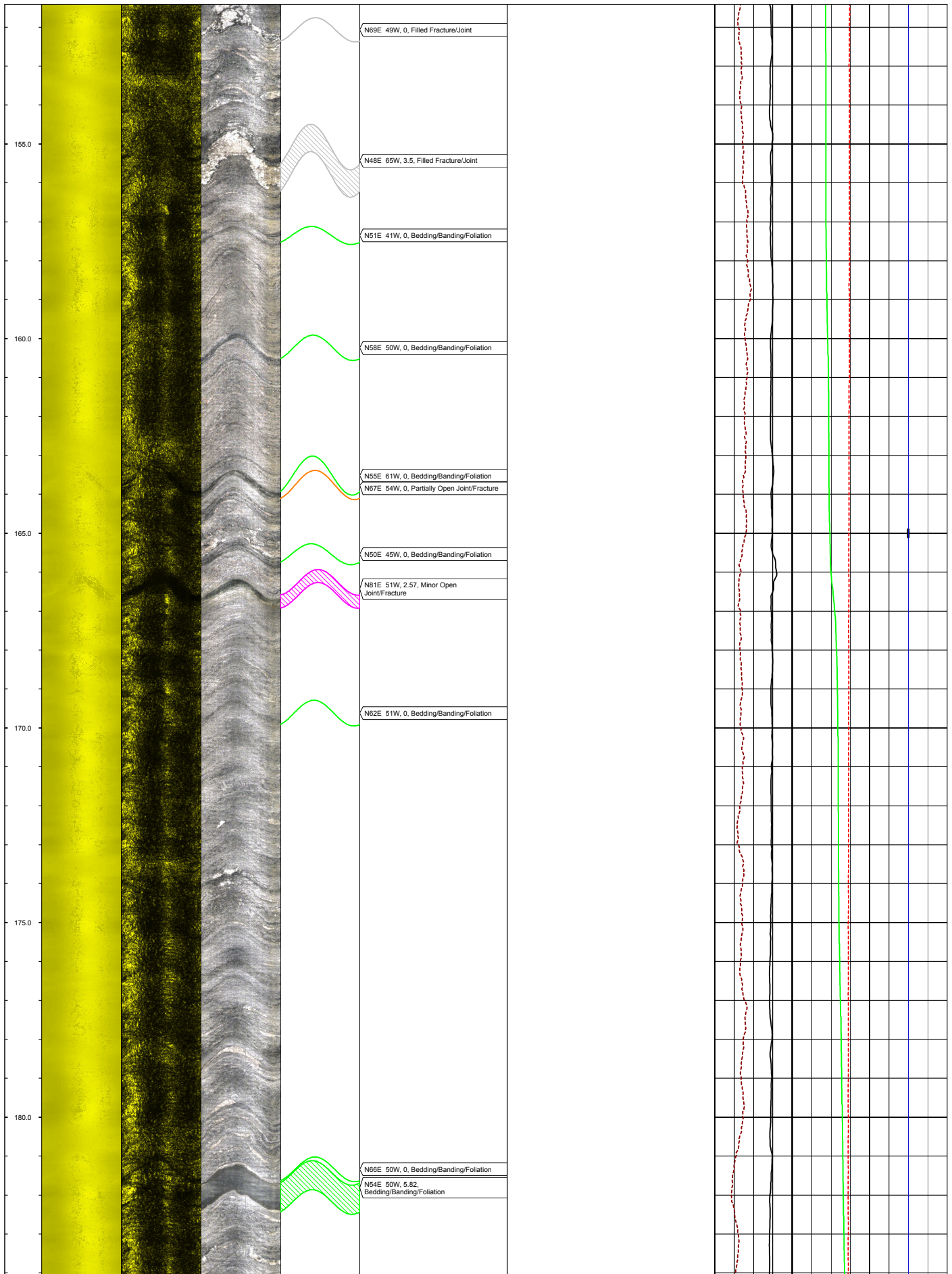
Site Name:
Location: Phoenix, MD

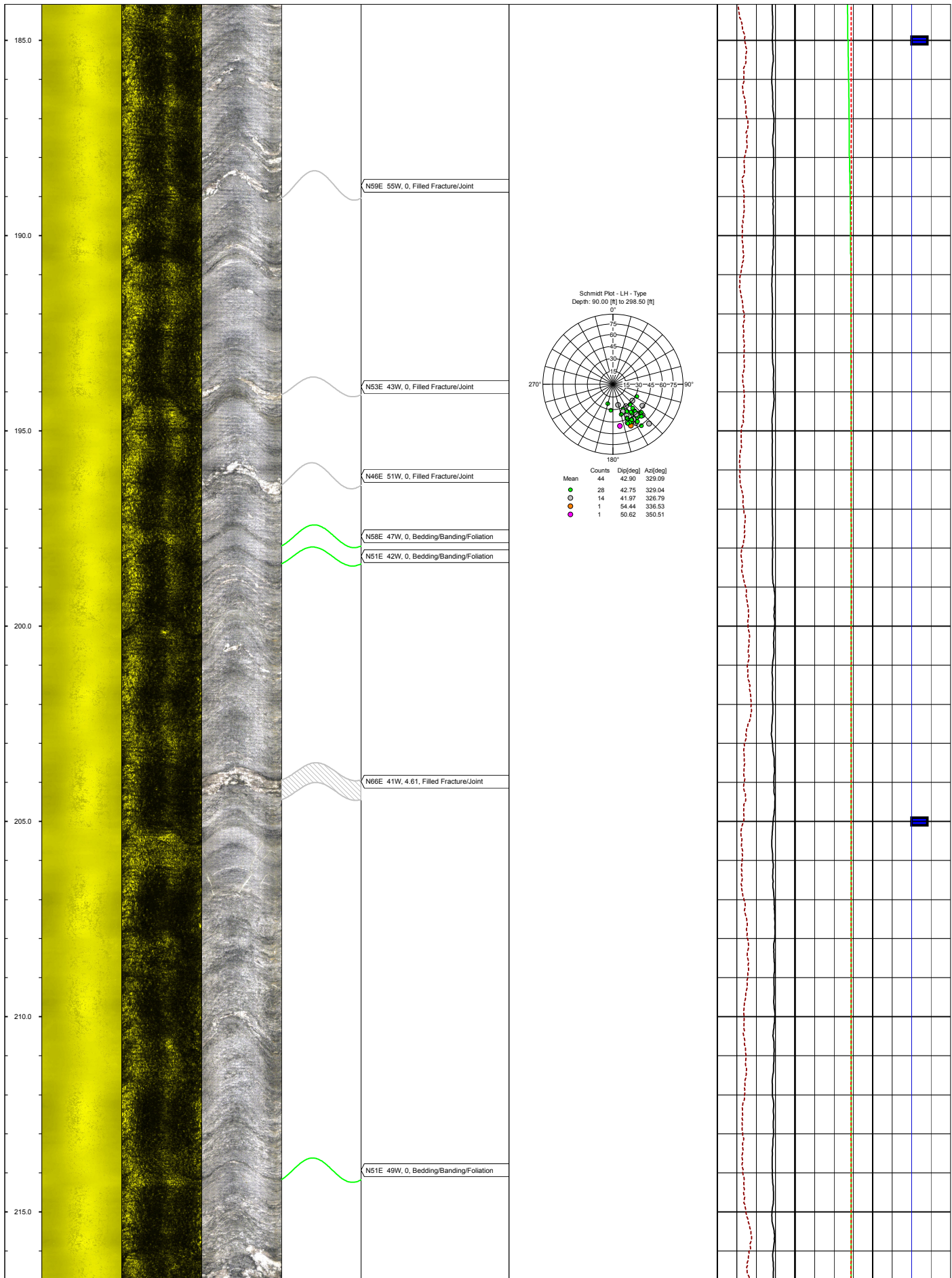
Client: Kleinfelder
Project No.: 011422

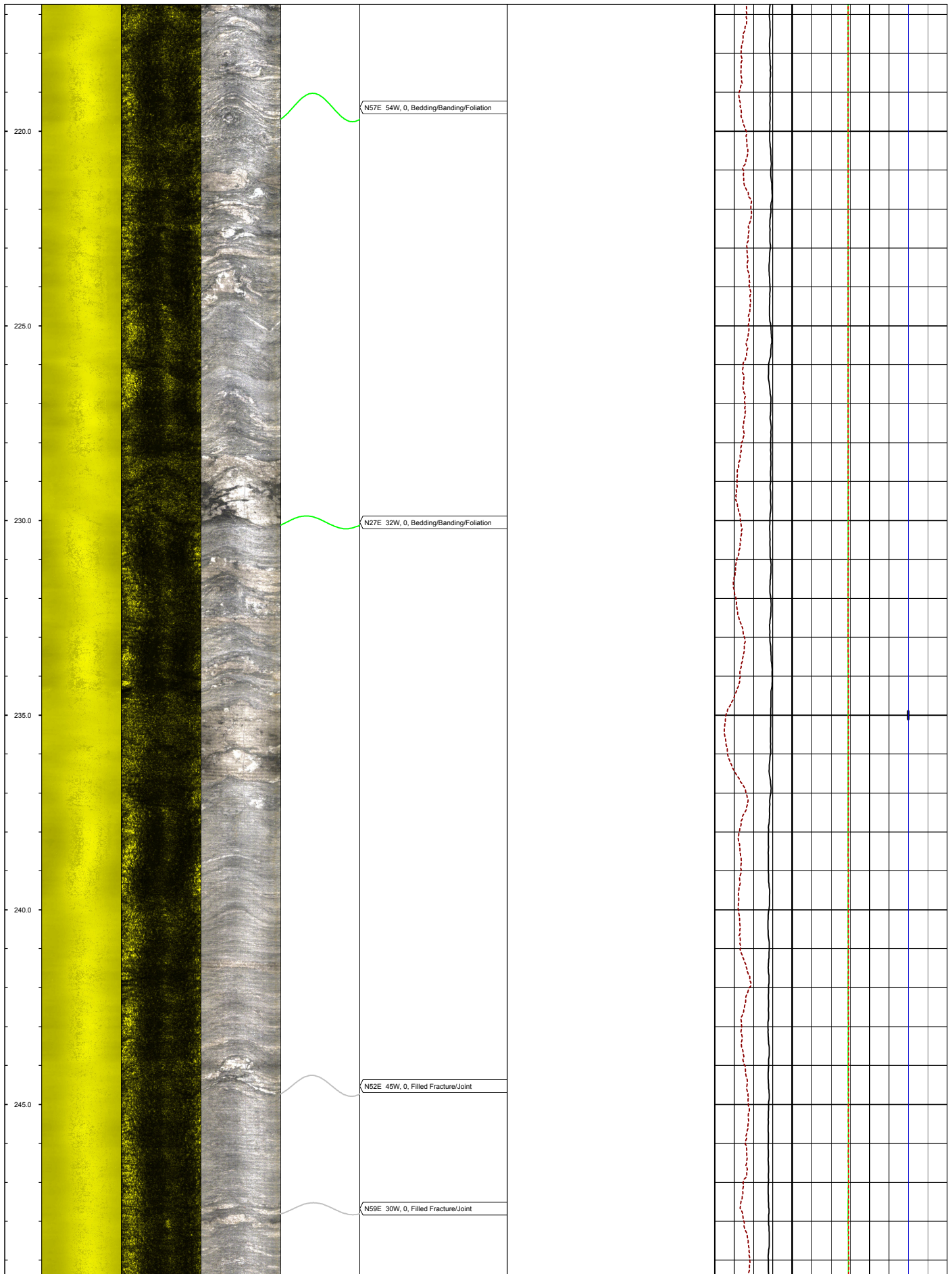
Revision Date: 02.16.2014

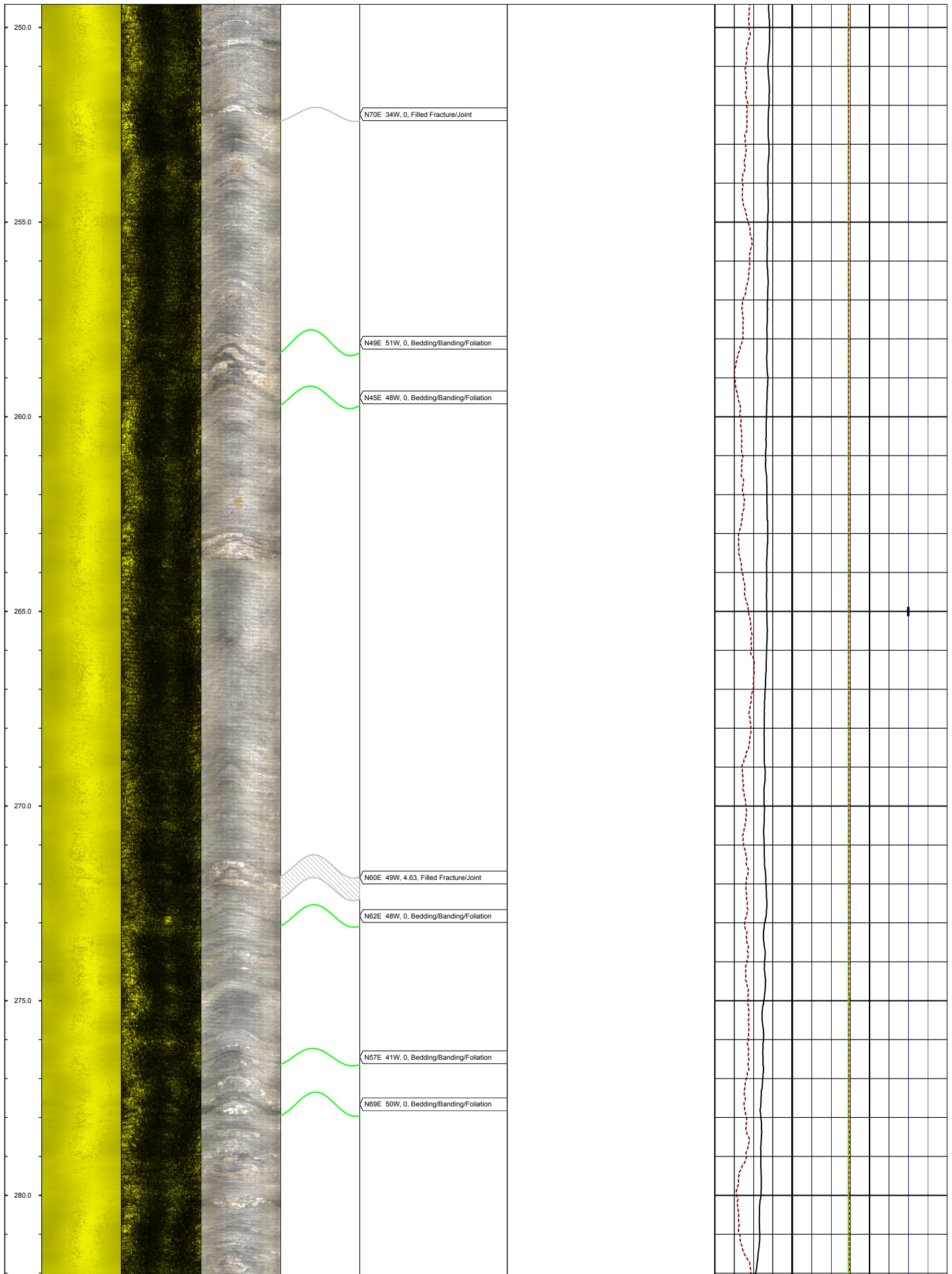


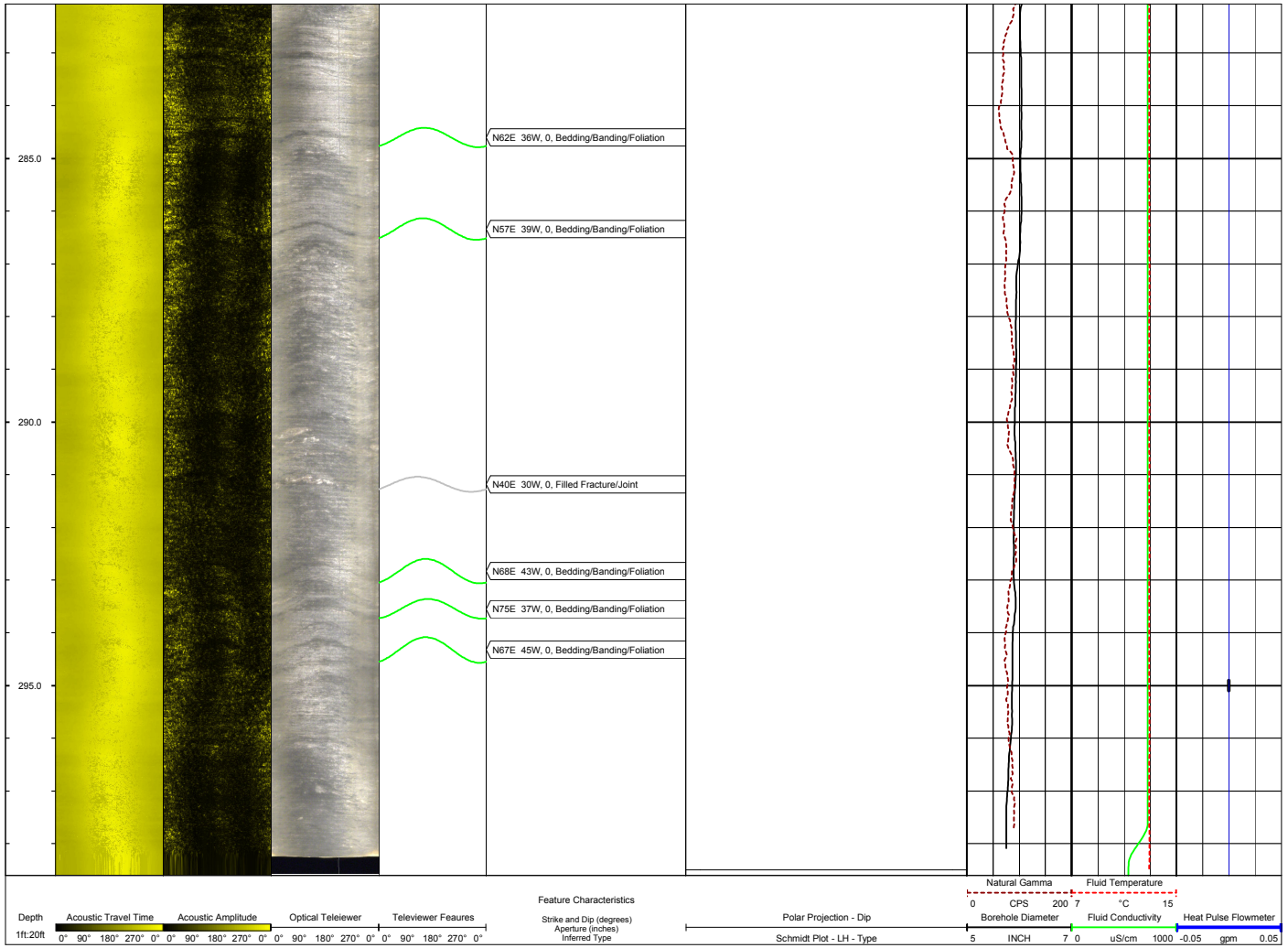


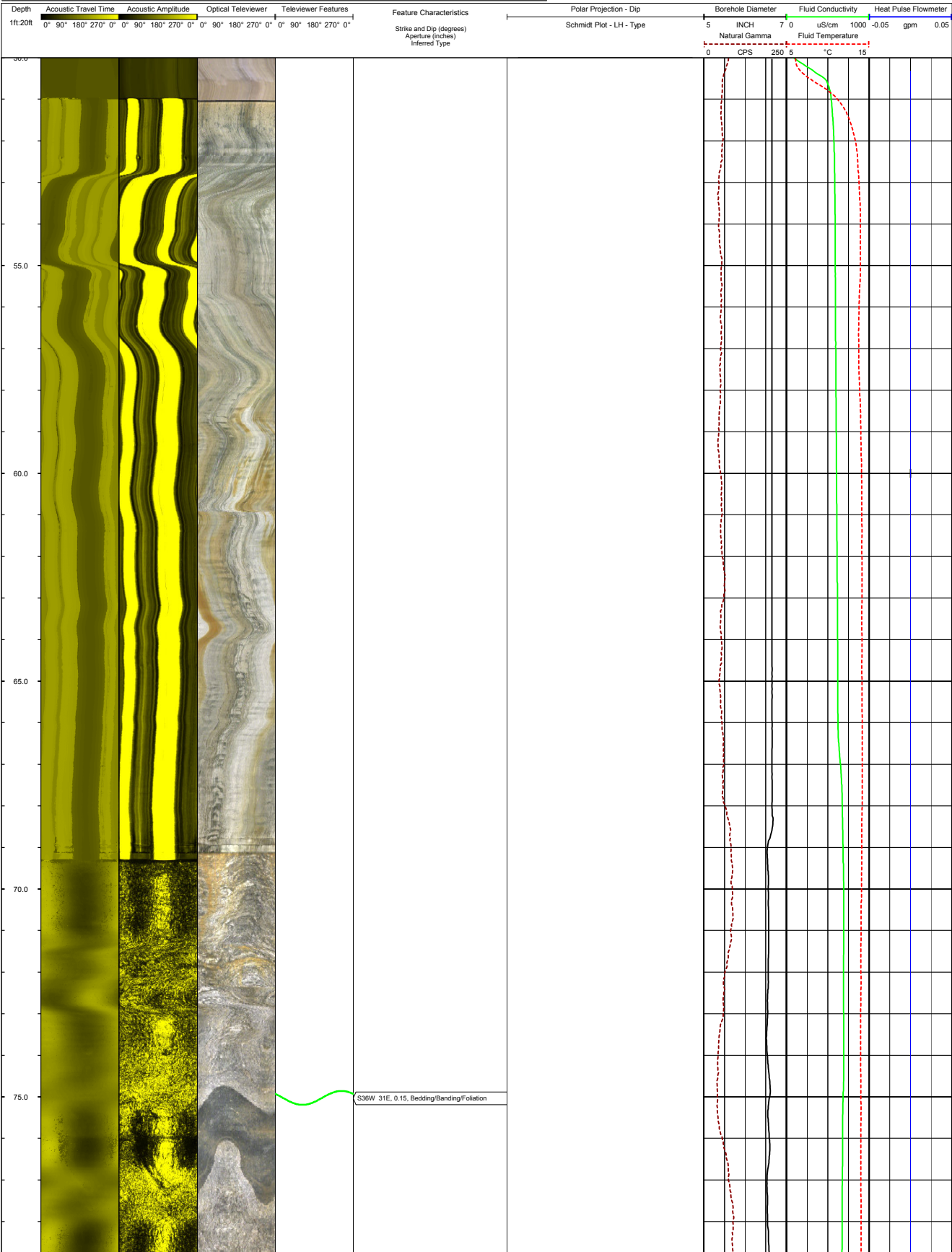


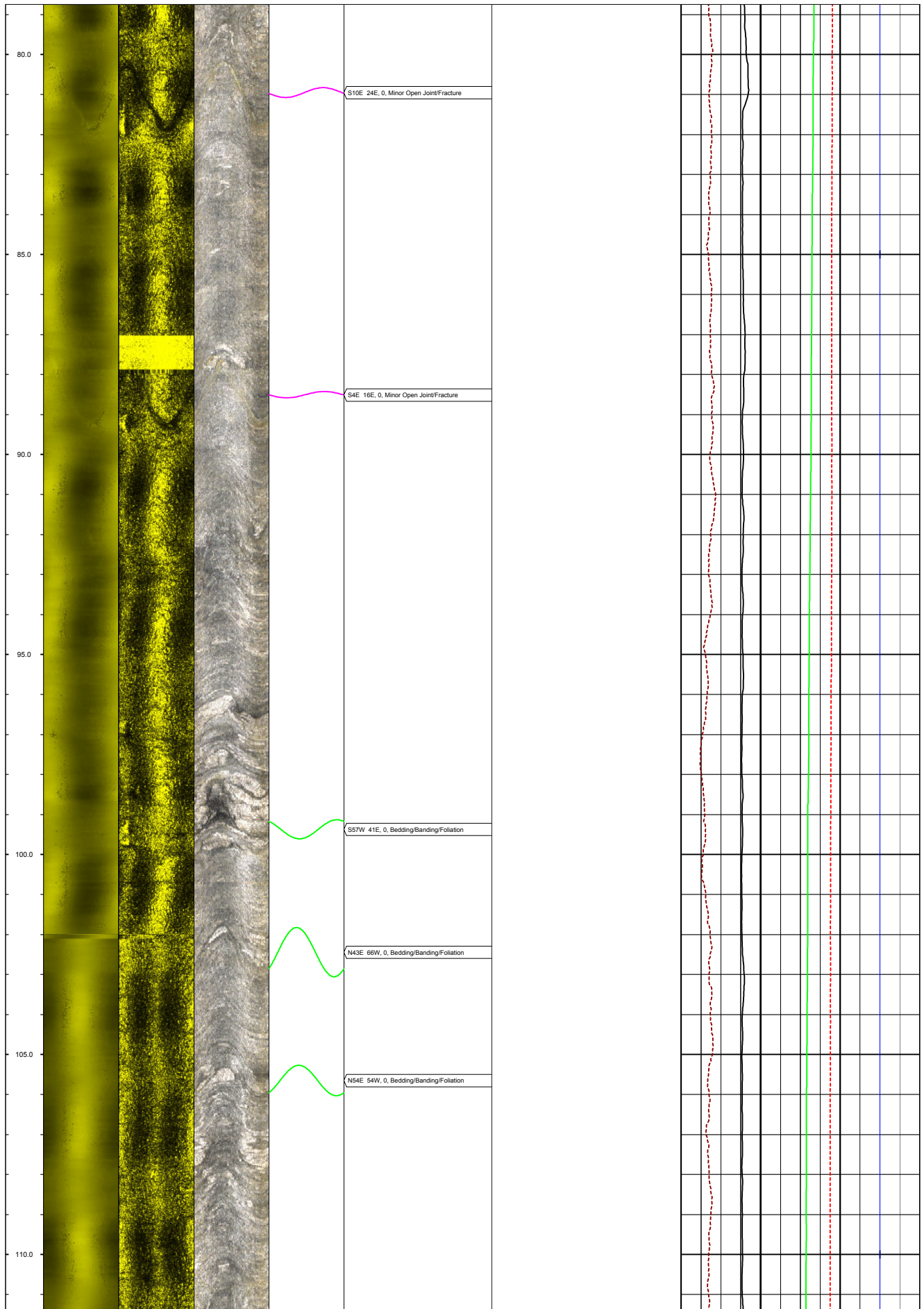


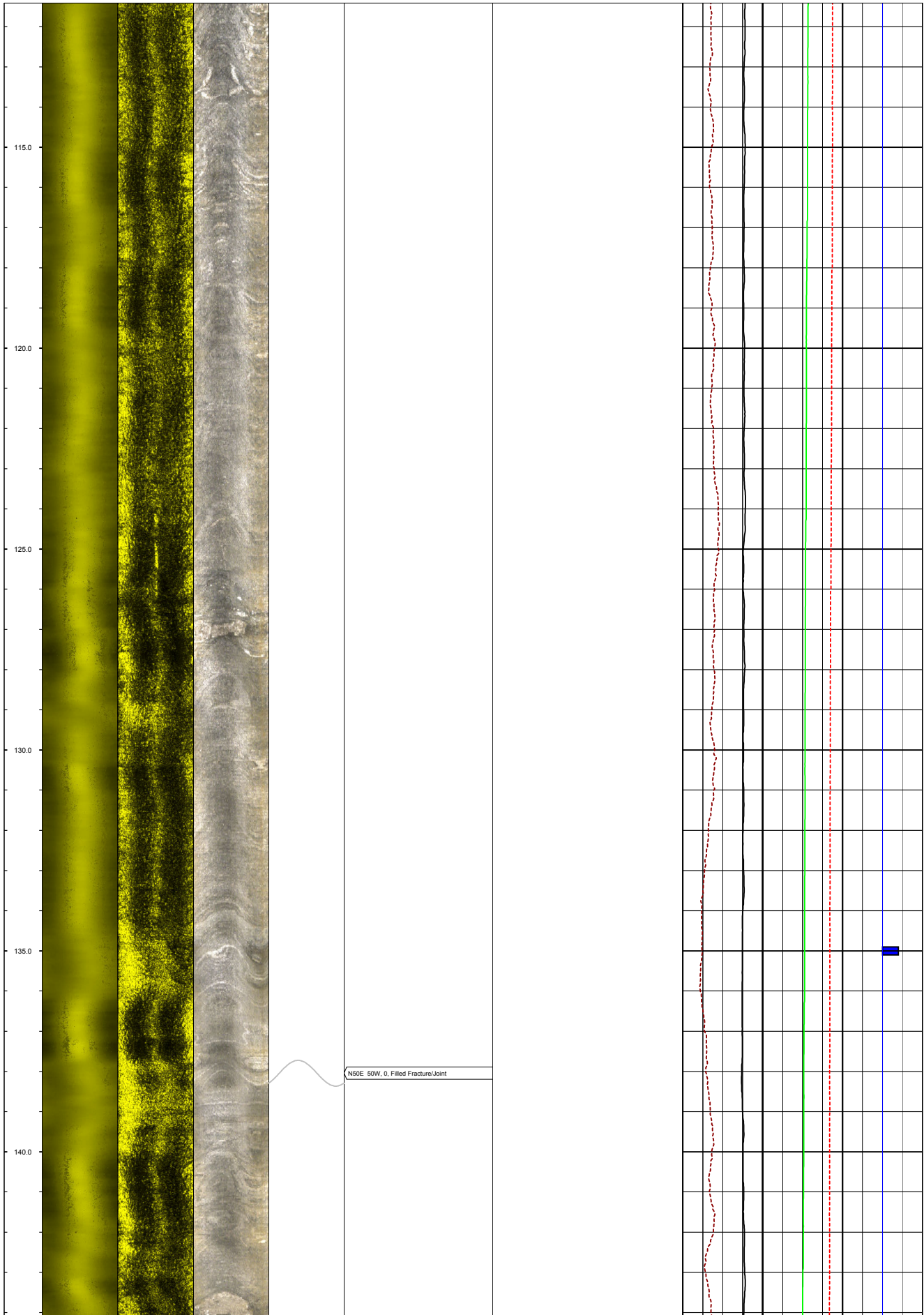


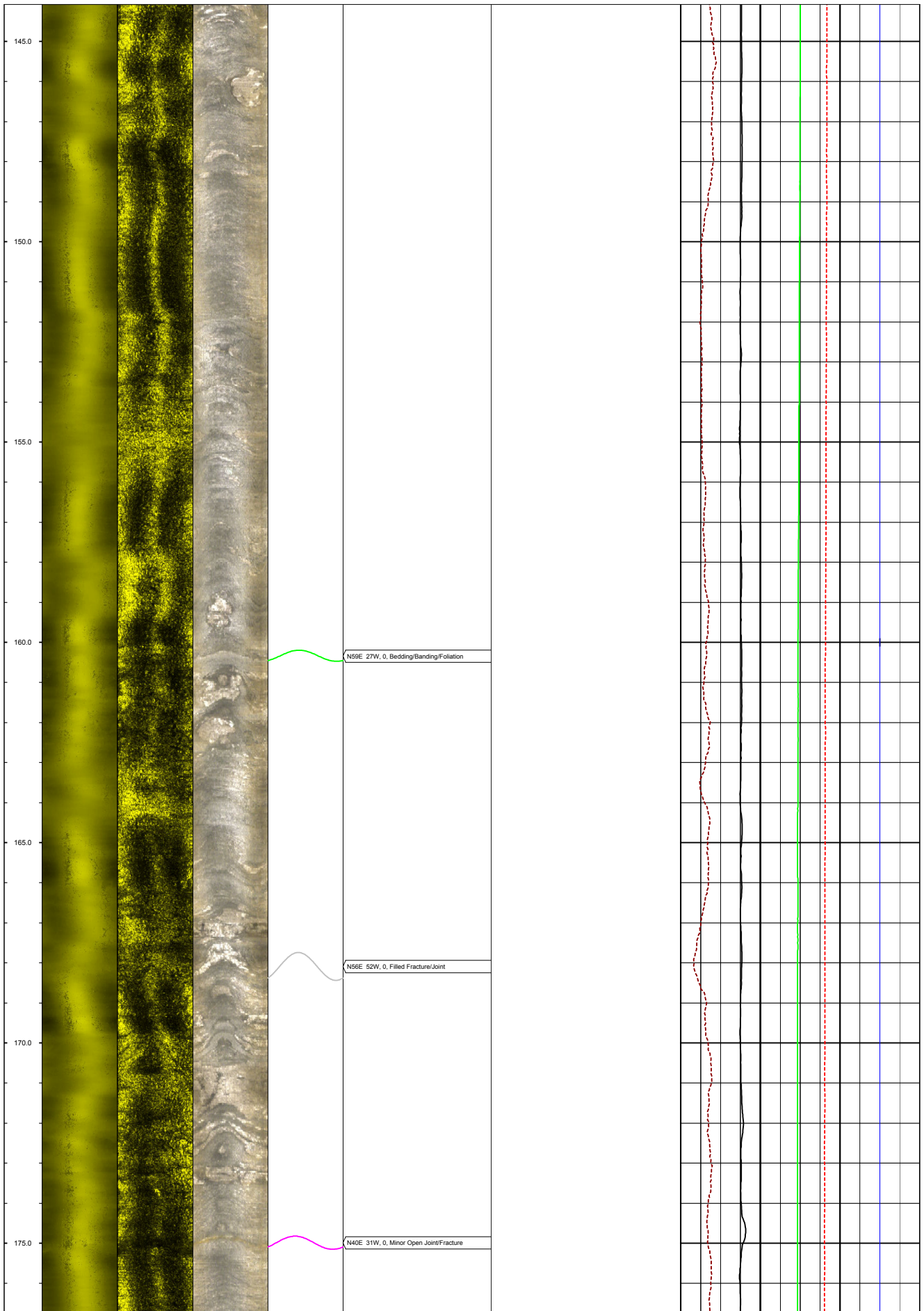


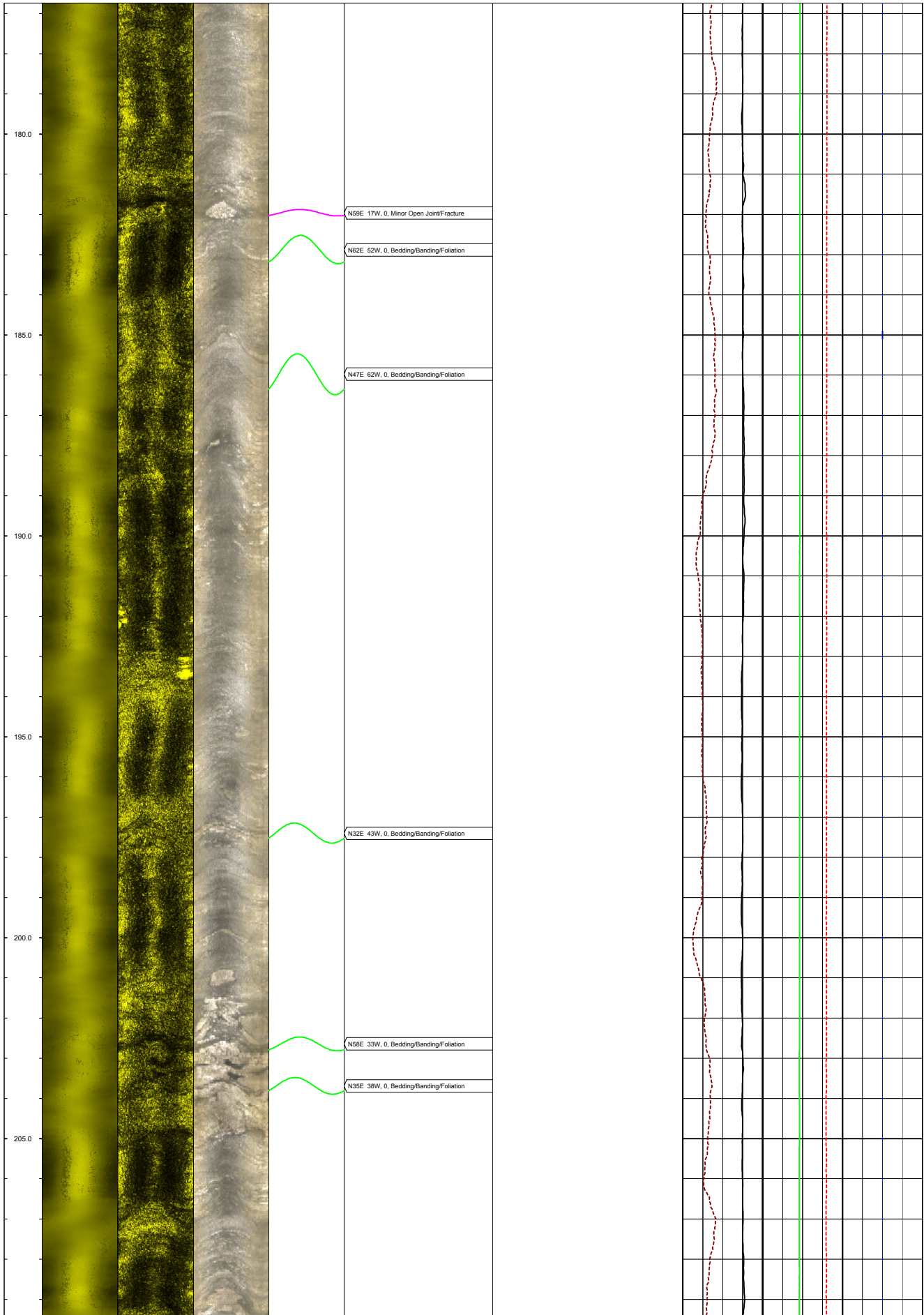


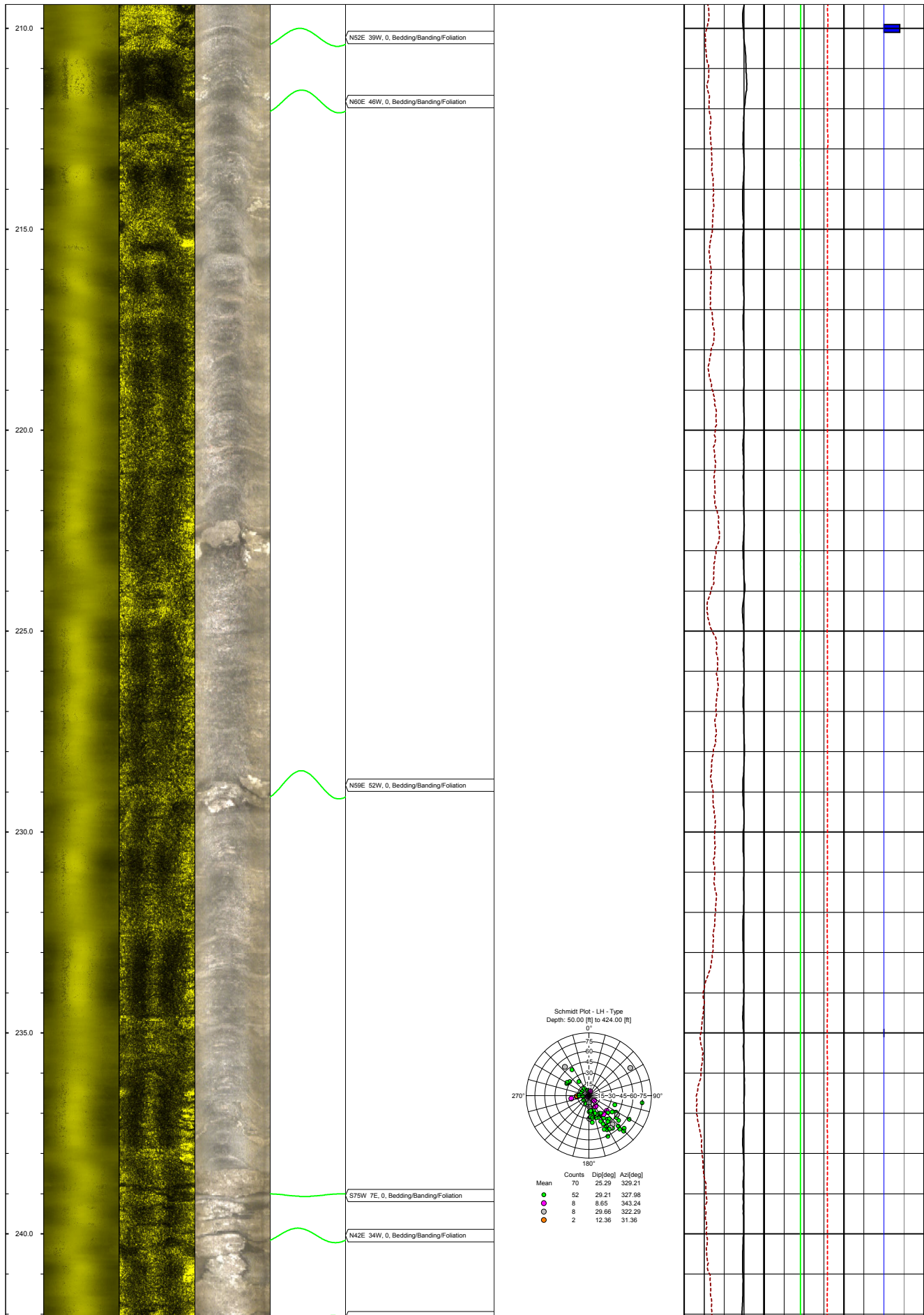


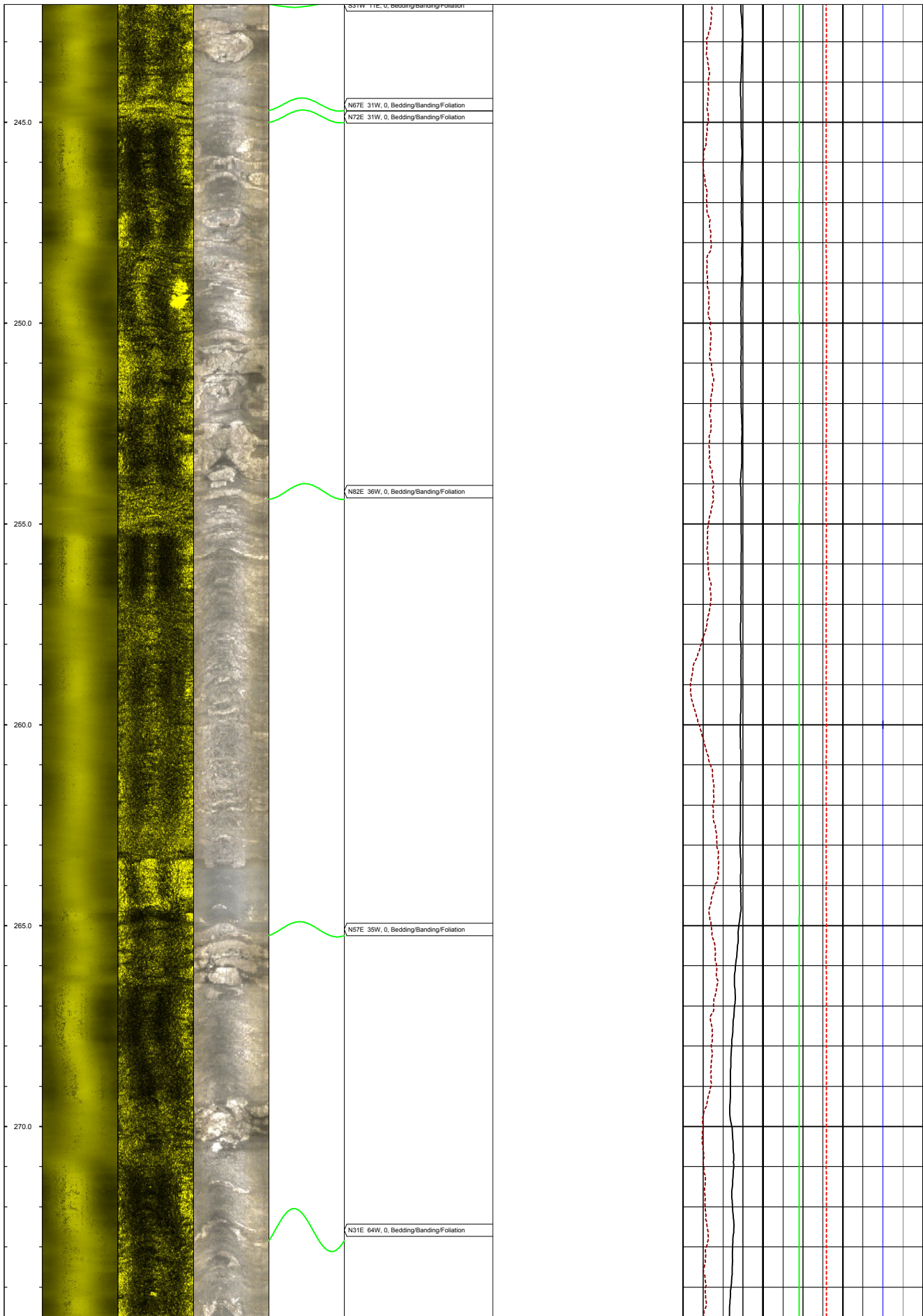


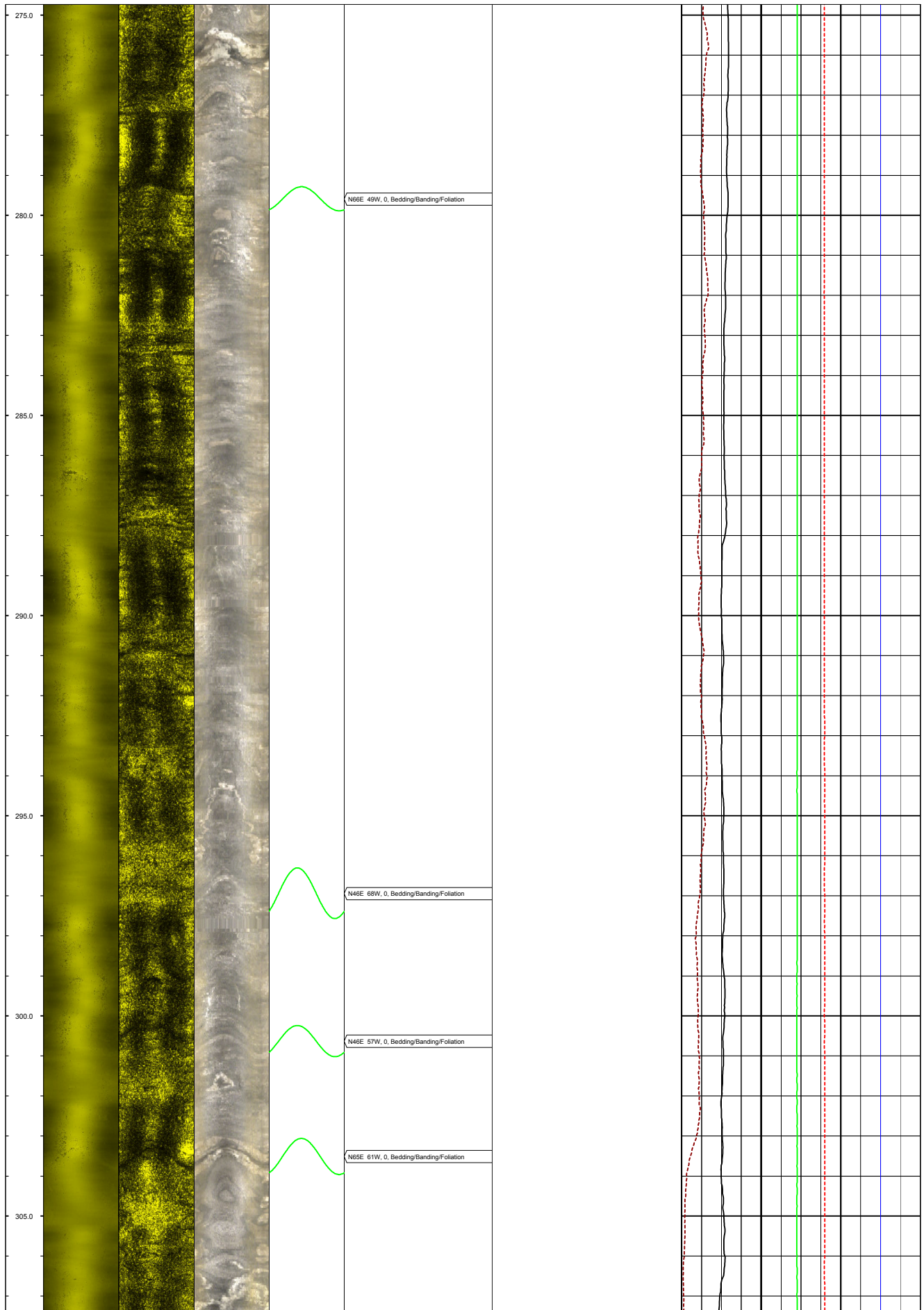


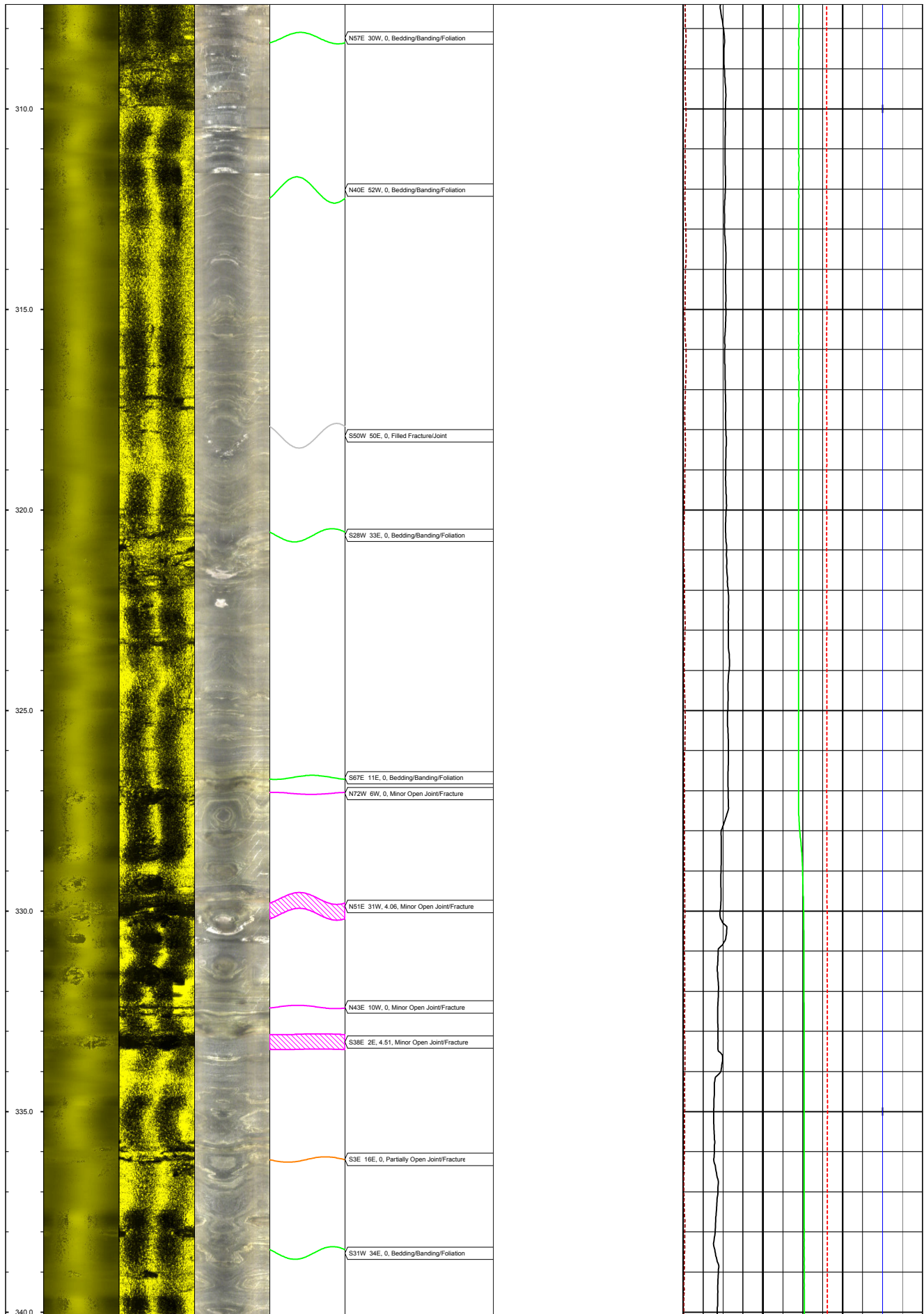


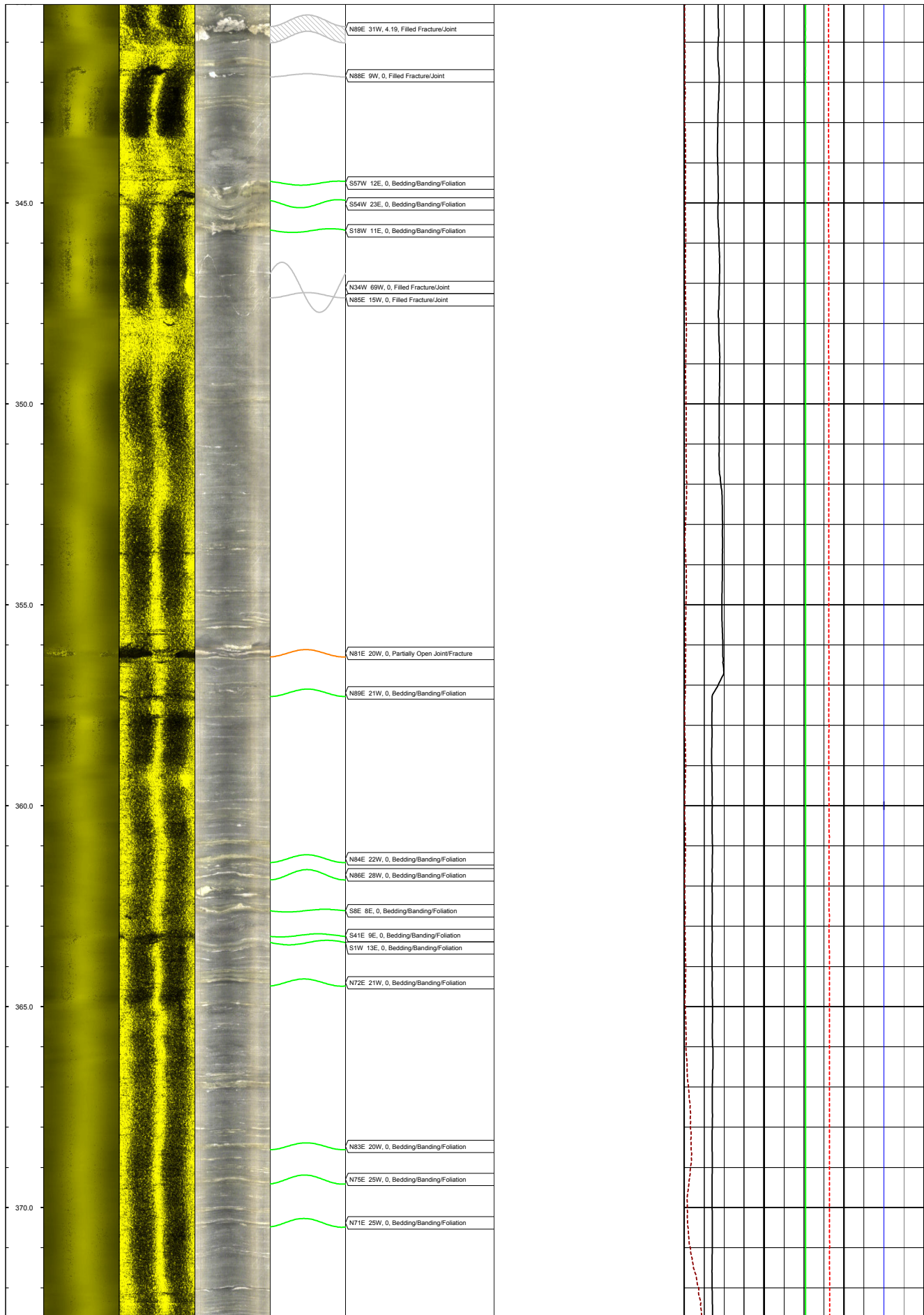


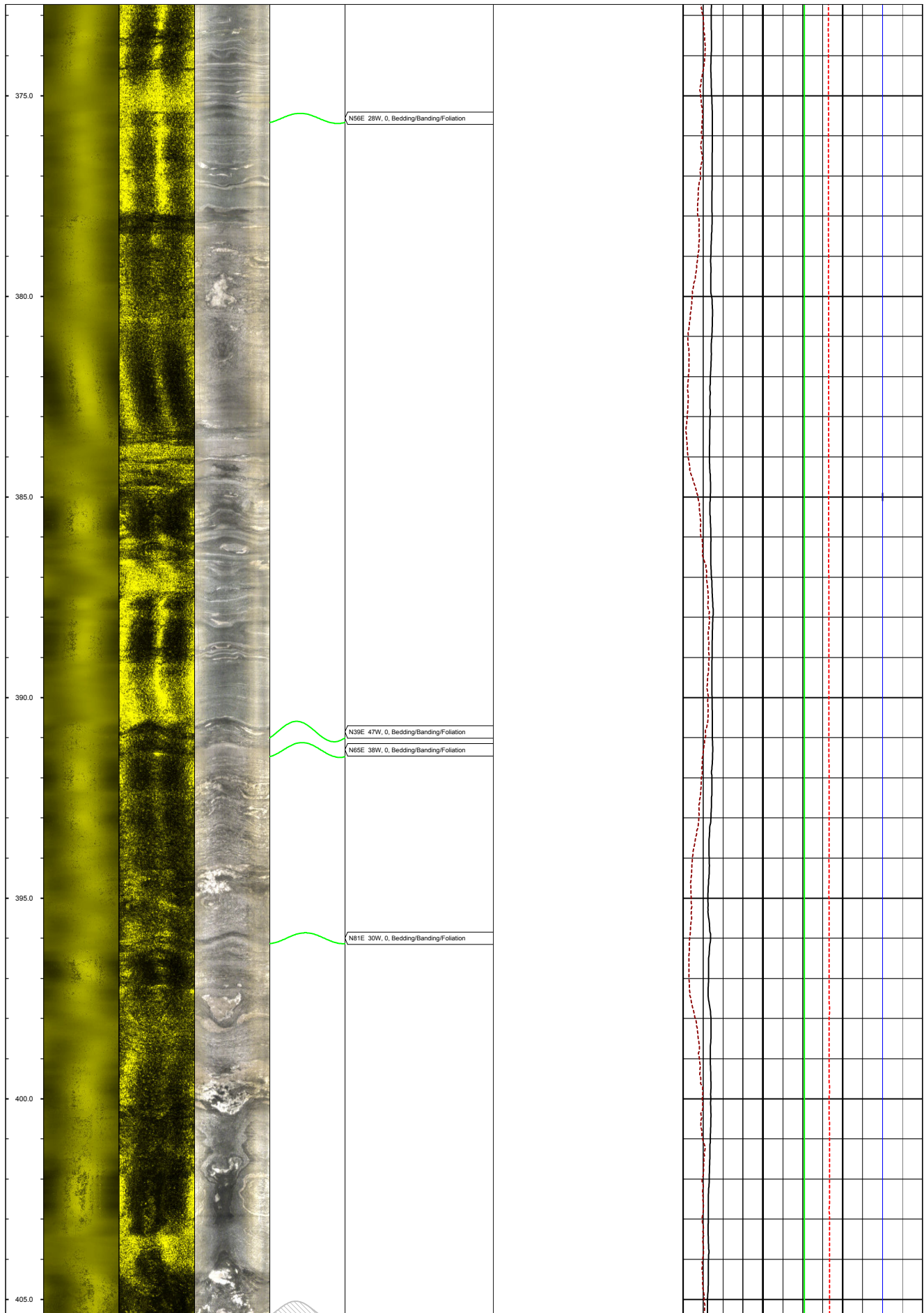












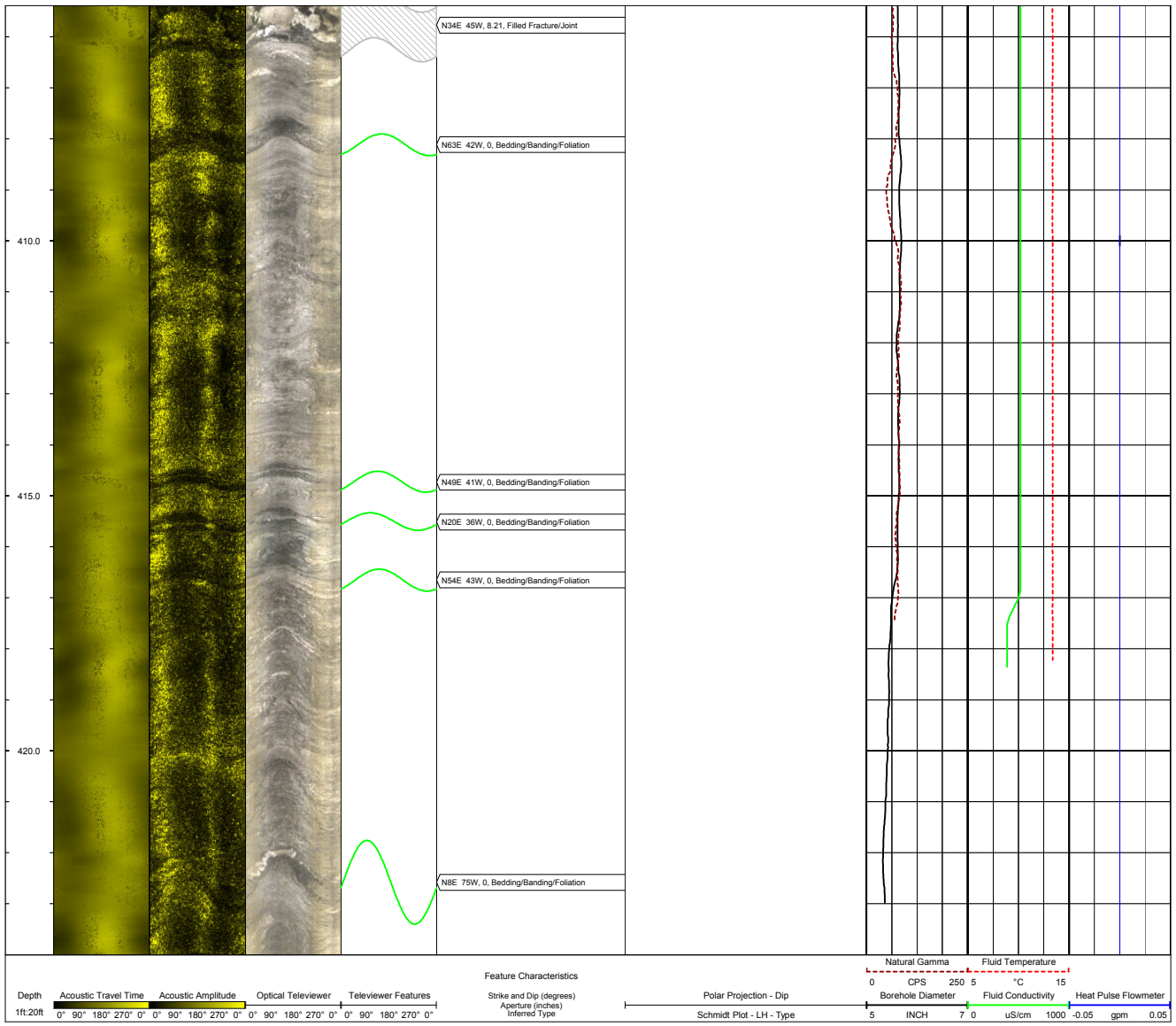


Table 1

Planar Feature Characterizations

- ▲ Broken Zone/Undifferentiated
- Major Open Joint/Fracture
- Minor Open Joint/Fracture
- Partially Open Joint/Fracture
- Filled Fracture/Joint
- Bedding/Banding/Foliation

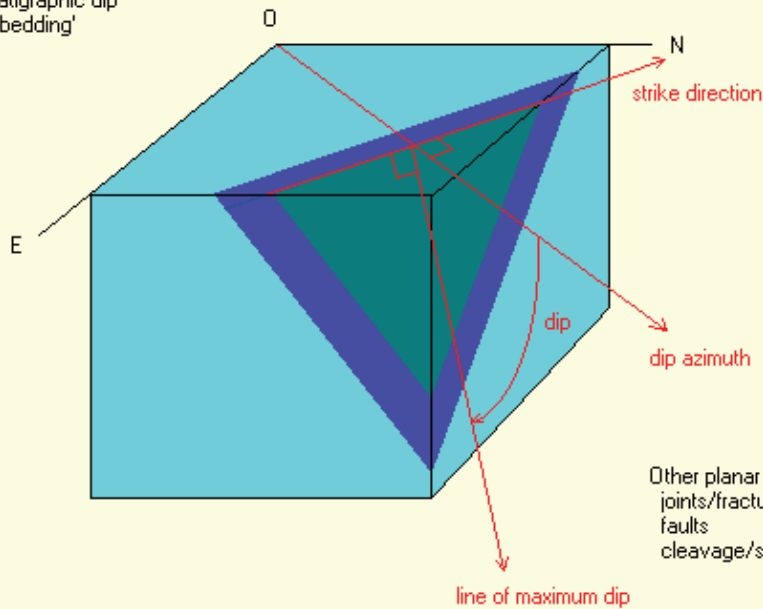
Appendix A

Planar Feature Orientation Parameters

Planar Feature Orientation Parameters

Dip = angle of inclination of the plane, downwards from the horizontal
Dip azimuth = azimuth of the line of maximum dip in the plane, clockwise from North
Strike direction = azimuth of a horizontal line in the plane (= dip azimuth - 90°)
e.g. dip and dip azimuth = 60° N041° or strike and dip = N311° 60°

e.g. Stratigraphic dip
or 'bedding'



Other planar geologic features include
joints/fractures/veins
faults
cleavage/schistosity

Appendix B

Planar Feature Characterization Tables

Mid-Atlantic Geosciences Planar Feature Characterizations



Well ID: **MW-73C**
 Site Name:
 Location: **Phoenix, MD**

Client: **Kleinfelder**
 Project No.: **011422**
 Revision Date: **02.17.2014**

Depth	Aperture (in.)	Dip Azimuth (deg.)	Strike (deg.)	Dip (deg.)	Feature Type
125.5	0.0	338	N68E	31W	Bedding/Banding/Foliation
127.1	0.0	15	S75E	24E	Bedding/Banding/Foliation
127.7	0.0	5	S85E	31E	Bedding/Banding/Foliation
128.9	0.0	346	N76E	25W	Filled Fracture/Joint
130.5	0.0	340	N70E	35W	Filled Fracture/Joint
131.0	0.0	306	N36E	43W	Filled Fracture/Joint
138.4	0.0	320	N50E	31W	Bedding/Banding/Foliation
145.0	0.0	321	N51E	37W	Bedding/Banding/Foliation
148.2	0.0	336	N66E	47W	Bedding/Banding/Foliation
152.1	0.0	339	N69E	49W	Filled Fracture/Joint
155.4	3.5	318	N48E	65W	Filled Fracture/Joint
157.4	0.0	321	N51E	41W	Bedding/Banding/Foliation
160.2	0.0	328	N58E	50W	Bedding/Banding/Foliation
163.5	0.0	325	N55E	61W	Bedding/Banding/Foliation
163.8	0.0	337	N67E	54W	Partially Open Joint/Fracture
165.5	0.0	320	N50E	45W	Bedding/Banding/Foliation
166.4	2.6	351	N81E	51W	Minor Open Joint/Fracture
169.6	0.0	332	N62E	51W	Bedding/Banding/Foliation
181.3	0.0	336	N66E	50W	Bedding/Banding/Foliation
181.8	5.8	324	N54E	50W	Bedding/Banding/Foliation
188.7	0.0	329	N59E	55W	Filled Fracture/Joint
193.9	0.0	323	N53E	43W	Filled Fracture/Joint
196.2	0.0	316	N46E	51W	Filled Fracture/Joint
197.7	0.0	328	N58E	47W	Bedding/Banding/Foliation
198.2	0.0	321	N51E	42W	Bedding/Banding/Foliation
204.0	4.6	336	N66E	41W	Filled Fracture/Joint
213.9	0.0	321	N51E	49W	Bedding/Banding/Foliation
219.4	0.0	327	N57E	54W	Bedding/Banding/Foliation

230.1	0.0	297	N27E	32W	Bedding/Banding/Foliation
244.5	0.0	322	N52E	45W	Filled Fracture/Joint
247.7	0.0	329	N59E	30W	Filled Fracture/Joint
252.2	0.0	340	N70E	34W	Filled Fracture/Joint
258.1	0.0	319	N49E	51W	Bedding/Banding/Foliation
259.5	0.0	315	N45E	48W	Bedding/Banding/Foliation
271.8	4.6	330	N60E	49W	Filled Fracture/Joint
272.8	0.0	332	N62E	48W	Bedding/Banding/Foliation
276.5	0.0	327	N57E	41W	Bedding/Banding/Foliation
277.7	0.0	339	N69E	50W	Bedding/Banding/Foliation
284.6	0.0	332	N62E	36W	Bedding/Banding/Foliation
286.3	0.0	327	N57E	39W	Bedding/Banding/Foliation
291.2	0.0	310	N40E	30W	Filled Fracture/Joint
292.8	0.0	338	N68E	43W	Bedding/Banding/Foliation
293.6	0.0	345	N75E	37W	Bedding/Banding/Foliation
294.3	0.0	337	N67E	45W	Bedding/Banding/Foliation

Mid-Atlantic Geosciences Planar Feature Characterizations



Well ID: MW-186D
Client: Kleinfelder
Site Name:
Project No.: 011422
Location: Phoenix, MD
Revision Date: 02.17.2014

Depth	Aperture (in.)	Dip Azimuth (deg.)	Strike (deg.)	Dip (deg.)	Feature Type
75.0	0.2	126	S36W	31E	Bedding/Banding/Foliation
81.0	0.0	80	S10E	24E	Minor Open Joint/Fracture
88.5	0.0	86	S4E	16E	Minor Open Joint/Fracture
99.4	0.0	147	S57W	41E	Bedding/Banding/Foliation
102.4	0.0	313	N43E	66W	Bedding/Banding/Foliation
105.7	0.0	324	N54E	54W	Bedding/Banding/Foliation
138.0	0.0	320	N50E	50W	Filled Fracture/Joint
160.3	0.0	329	N59E	27W	Bedding/Banding/Foliation
168.1	0.0	326	N56E	52W	Filled Fracture/Joint
175.0	0.0	310	N40E	31W	Minor Open Joint/Fracture
182.0	0.0	329	N59E	17W	Minor Open Joint/Fracture
182.9	0.0	332	N62E	52W	Bedding/Banding/Foliation
186.0	0.0	317	N47E	62W	Bedding/Banding/Foliation
197.4	0.0	302	N32E	43W	Bedding/Banding/Foliation
202.6	0.0	328	N58E	33W	Bedding/Banding/Foliation
203.7	0.0	305	N35E	38W	Bedding/Banding/Foliation
210.2	0.0	322	N52E	39W	Bedding/Banding/Foliation
211.8	0.0	330	N60E	46W	Bedding/Banding/Foliation
228.8	0.0	329	N59E	52W	Bedding/Banding/Foliation
239.0	0.0	165	S75W	7E	Bedding/Banding/Foliation
240.0	0.0	312	N42E	34W	Bedding/Banding/Foliation
242.1	0.0	121	S31W	11E	Bedding/Banding/Foliation
244.6	0.0	337	N67E	31W	Bedding/Banding/Foliation
244.9	0.0	342	N72E	31W	Bedding/Banding/Foliation
254.2	0.0	352	N82E	36W	Bedding/Banding/Foliation
265.1	0.0	327	N57E	35W	Bedding/Banding/Foliation
272.6	0.0	301	N31E	64W	Bedding/Banding/Foliation
279.6	0.0	336	N66E	49W	Bedding/Banding/Foliation

296.9	0.0	316	N46E	68W	Bedding/Banding/Foliation
300.6	0.0	316	N46E	57W	Bedding/Banding/Foliation
303.5	0.0	335	N65E	61W	Bedding/Banding/Foliation
308.2	0.0	327	N57E	30W	Bedding/Banding/Foliation
312.0	0.0	310	N40E	52W	Bedding/Banding/Foliation
318.2	0.0	140	S50W	50E	Filled Fracture/Joint
320.6	0.0	118	S28W	33E	Bedding/Banding/Foliation
326.7	0.0	23	S67E	11E	Bedding/Banding/Foliation
327.1	0.0	198	N72W	6W	Minor Open Joint/Fracture
329.9	4.1	321	N51E	31W	Minor Open Joint/Fracture
332.4	0.0	313	N43E	10W	Minor Open Joint/Fracture
333.3	4.5	52	S38E	2E	Minor Open Joint/Fracture
336.2	0.0	87	S3E	16E	Partially Open Joint/Fracture
338.5	0.0	121	S31W	34E	Bedding/Banding/Foliation
340.7	4.2	359	N89E	31W	Filled Fracture/Joint
341.8	0.0	358	N88E	9W	Filled Fracture/Joint
344.5	0.0	147	S57W	12E	Bedding/Banding/Foliation
345.0	0.0	144	S54W	23E	Bedding/Banding/Foliation
345.7	0.0	108	S18W	11E	Bedding/Banding/Foliation
347.1	0.0	236	N34W	69W	Filled Fracture/Joint
347.3	0.0	355	N85E	15W	Filled Fracture/Joint
356.2	0.0	351	N81E	20W	Partially Open Joint/Fracture
357.2	0.0	359	N89E	21W	Bedding/Banding/Foliation
361.3	0.0	354	N84E	22W	Bedding/Banding/Foliation
361.7	0.0	356	N86E	28W	Bedding/Banding/Foliation
362.6	0.0	82	S8E	8E	Bedding/Banding/Foliation
363.2	0.0	49	S41E	9E	Bedding/Banding/Foliation
363.4	0.0	91	S1W	13E	Bedding/Banding/Foliation
364.4	0.0	342	N72E	21W	Bedding/Banding/Foliation
368.5	0.0	353	N83E	20W	Bedding/Banding/Foliation
369.3	0.0	345	N75E	25W	Bedding/Banding/Foliation
370.4	0.0	341	N71E	25W	Bedding/Banding/Foliation
375.6	0.0	326	N56E	28W	Bedding/Banding/Foliation
390.9	0.0	309	N39E	47W	Bedding/Banding/Foliation
391.3	0.0	335	N65E	38W	Bedding/Banding/Foliation
396.0	0.0	351	N81E	30W	Bedding/Banding/Foliation
405.8	8.2	304	N34E	45W	Filled Fracture/Joint

408.1	0.0	333	N63E	42W	Bedding/Banding/Foliation
414.7	0.0	319	N49E	41W	Bedding/Banding/Foliation
415.5	0.0	290	N20E	36W	Bedding/Banding/Foliation
416.7	0.0	324	N54E	43W	Bedding/Banding/Foliation
422.6	0.0	278	N8E	75W	Bedding/Banding/Foliation

Appendix C

Borehole Deviation Plots



Mid-Atlantic Geosciences

Title: *Borehole Deviation (Bulls Eye Plot)*

WELL ID

MW-73C

Logging Date: 02.04.2014

Logging Datum: Ground Surface

BOC: 124.2' DTW: 91.8' TD: 298.2'

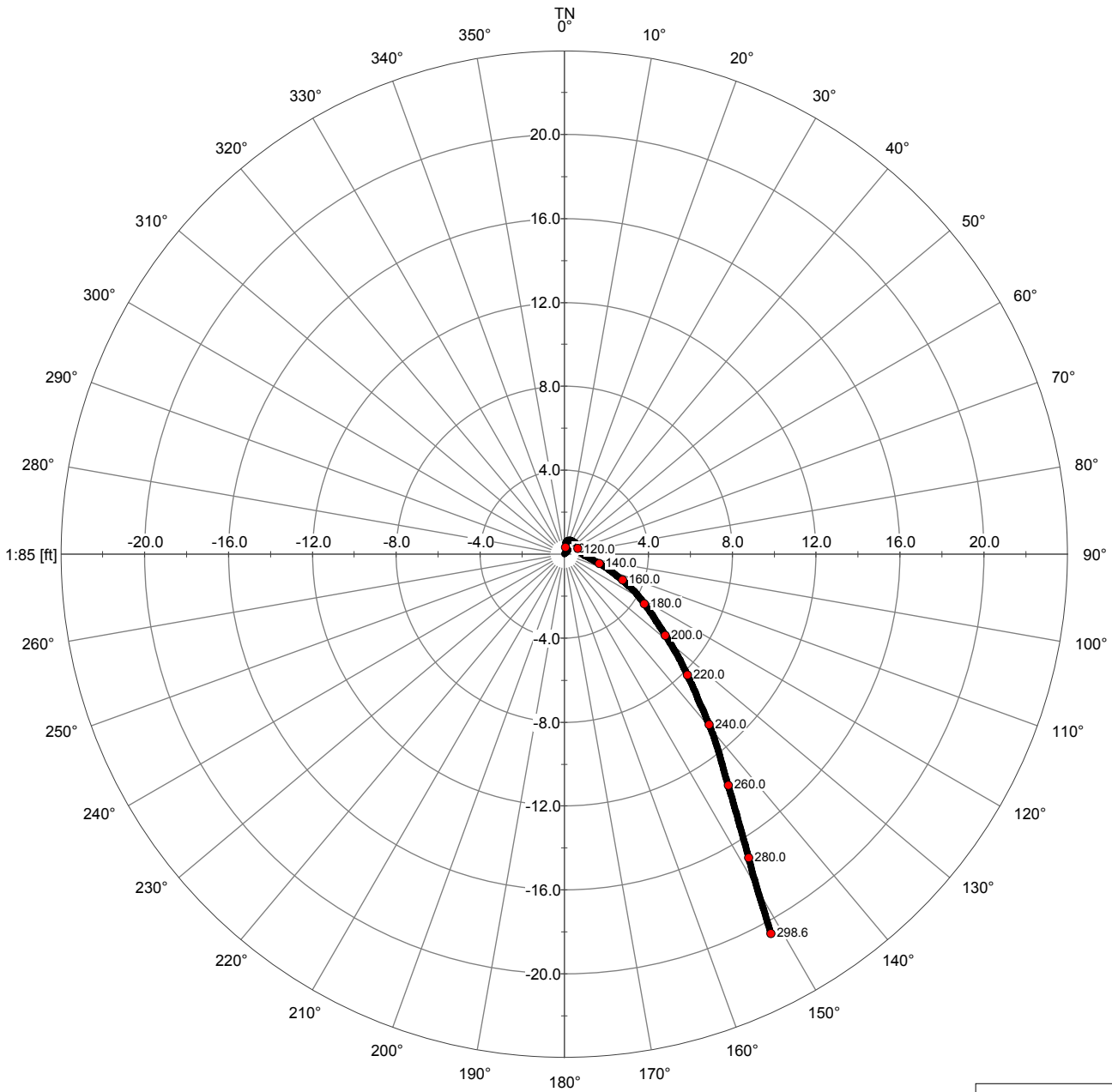
Site Name:

Location: *Phoenix, MD*

Client: *Kleinfelder*

Project No.: 011422

Revision Date: 02.17.2014



20.0ft MW-73C



Mid-Atlantic Geosciences

Title: *Borehole Deviation (Bulls Eye Plot)*

WELL ID

MW-186D

Logging Date: 02.06.2014

Logging Datum: Ground Surface

BOC: 69.2'

DTW: 51'

TD: 424'

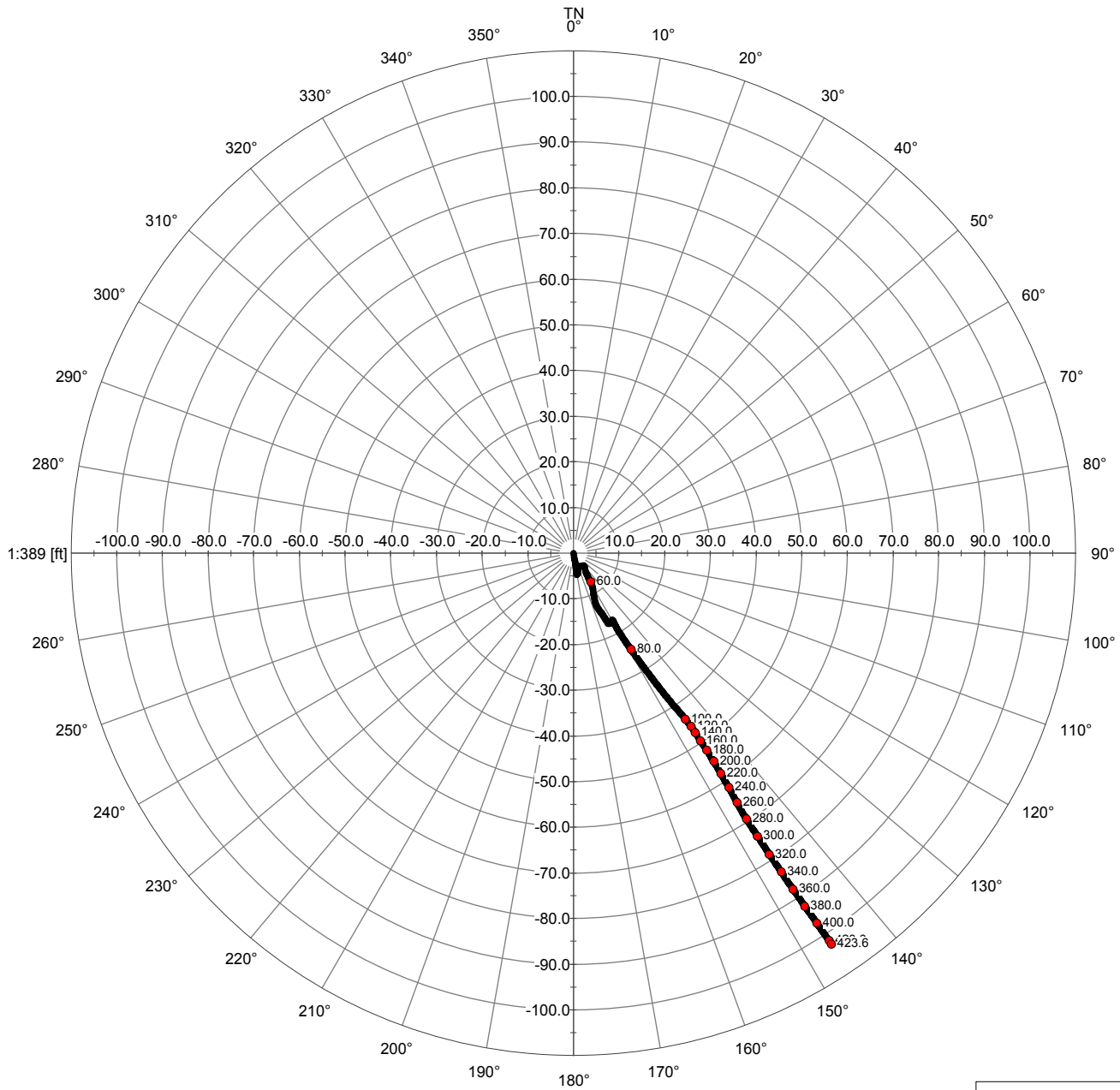
Site Name:

Phoenix, MD

Client: Kleinfelder

Project No.: 011422

Revision Date: 02.17.2014



APPENDIX D

WELL CONSTRUCTION PERMIT
 COUNTY NUMBER
 FILL IN THIS FORM COMPLETELY PLEASE TYPE
 PERMIT NO. FROM "PERMIT TO DRILL WELL"
 ST/CO USE ONLY DATE RECEIVED DATE WELL COMPLETED Depth of Well
 DATE RECEIVED DATE WELL COMPLETED 22 300 26
 (TO NEAREST FOOT) 8A-10-0457
 28 29 30 31 32 33 34 35 36 37

OWNER: Four Corners Square LLP
 WELL SITE ADDRESS: 14315 Jorrettville Pike TOWN: Phoenix
 SUBDIVISION SECTION LOT

WELL LOG
 Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET		check if water bearing
	FROM	TO	
OVG	0	18	
Brown/Weathered	18	25	
soft/Weathered	25	28	
Brown/Weathered	28	34	
Weathered schist	34	74	
gneiss	74	149	
Schist	149	300	

GROUTING RECORD yes no
 WELL HAS BEEN GROUTED (Circle Appropriate Box) Y N
 TYPE OF GROUTING MATERIAL (Circle one)
 CEMENT CM BENTONITE CLAY BC
 NO. OF BAGS 44 NO. OF POUNDS 136
 GALLONS OF WATER 267
 DEPTH OF GROUT SEAL (to nearest foot)
 from 1 ft. to 125 ft.
 (enter 0 if from surface)

CASING RECORD
 casing types insert appropriate code below
 ST STEEL CO CONCRETE
 PL PLASTIC OT OTHER
 MAIN CASING TYPE Nominal diameter top (main) casing (nearest inch) Total depth of main casing (nearest foot)
 ST 6 125
 60 61 63 64 65 66 67 68 69 70

OTHER CASING (if used)
 diameter depth (feet)
 inch from to

SCREEN RECORD
 screen type or open hole insert appropriate code below
 ST STEEL BR BRASS HO HOLE
 PL PLASTIC OT OTHER

DEPTH (nearest ft.)
 1 2 3
 HO 125 300
 8 9 11 15 17 21
 23 24 26 30 32 36
 38 39 41 45 47 51
 SLOT SIZE 1 2 3
 DIAMETER OF SCREEN (NEAREST INCH)
 from to

PUMPING TEST N/A
 HOURS PUMPED (nearest hour) 8 9
 PUMPING RATE (gal. per min.) 11
 METHOD USED TO MEASURE PUMPING RATE
 WATER LEVEL (distance from land surface)
 BEFORE PUMPING 17 20 ft.
 WHEN PUMPING 22 26 ft.
 TYPE OF PUMP USED (for test)
 A air P piston T turbine
 C centrifugal R rotary O other (describe below)
 J jet S submersible

PUMP INSTALLED
 DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES NO
 IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.
 TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29
 CAPACITY: GALLONS PER MINUTE (to nearest gallon) N/A
 PUMP HORSE POWER 37
 PUMP COLUMN LENGTH (nearest ft.) 43
 CASING HEIGHT (circle appropriate box and enter casing height)
 + above } LAND SURFACE
 - below } (near foot)

LATITUDE 39.519307
 LONGITUDE 76.558340
 (DEFAULT COORD. WGS 84)
 NOTES:

NUMBER OF UNSUCCESSFUL WELLS: 0
 WELL HYDROFRACTURED Y N
 CIRCLE APPROPRIATE LETTER
 A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED
 E ELECTRIC LOG OBTAINED
 P TEST WELL CONVERTED TO PRODUCTION WELL
 I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 28.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.
 DRILLER'S LIC. NO. MW D552
 DRILLER'S SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)
 LIC. NO. JW D314
 SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)
 Carey Kraub

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68
 MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)
 T (E.R.O.S.) W Q
 70 72 74 75 76
 TELESCOPE CASING LOG INDICATOR OTHER DATA

WELL COMPLETION REPORT

FILL IN THIS FORM COMPLETELY
PLEASE TYPE

45 DAYS AFTER WELL IS COMPLETED.

1 2 3 6
(THIS NUMBER IS TO BE PUNCHED
IN COLS. 3-6 ON ALL CARDS)

COUNTY
NUMBER

ST/CO USE ONLY

DATE WELL COMPLETED

Depth of Well

PERMIT NO.
FROM "PERMIT TO DRILL WELL"

DATE RECEIVED
MM DD YY
8 13

MM DD YY
12 14 13

22 428 26
(TO NEAREST FOOT)

BA 10 0456
28 29 30 31 32 33 34 35 36 37

OWNER Four Corners Square LLP

WELL SITE ADDRESS 14333 Jarrettville Pike TOWN Phoenix

SUBDIVISION _____ SECTION _____ LOT _____

WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR
COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET		check if water bearing
	FROM	TO	
OV8	0	15	
weathered schist	15	56	
gray schist	56	70	
schist	70	313	
gneiss	313	385	
schist	385	428	

GROUTING RECORD

WELL HAS BEEN GROUTED
(Circle Appropriate Box)

YES NO
 Y N
44 44

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT CM BENTONITE CLAY BC

NO. OF BAGS 29 NO. OF POUNDS 2726

GALLONS OF WATER 174

DEPTH OF GROUT SEAL (to nearest foot)

from 1 TOP 52 ft. to 70 BOTTOM 58 ft.
(enter 0 if from surface)

CASING RECORD

casing
types
insert
appropriate
code
below

ST STEEL CO CONCRETE
 PL PLASTIC OT OTHER

MAIN CASING TYPE

Nominal diameter top (main) casing (nearest inch)	Total depth of main casing (nearest foot)
<u>6</u>	<u>70</u>
60 61 63 64 66	70

OTHER CASING (if used),
diameter depth (feet)
inch from to

SCREEN RECORD

screen type
or open hole

insert
appropriate
code
below

ST STEEL BR BRASS HO OPEN HOLE
 PL PLASTIC OT OTHER

DEPTH (nearest ft.)

DEPTH (nearest ft.)	DEPTH (nearest ft.)	DEPTH (nearest ft.)	DEPTH (nearest ft.)	DEPTH (nearest ft.)
<u>HO</u>	<u>70</u>	<u>428</u>		
8 9 11	15 17	21		
23 24 26	30 32	36		
38 39 41	45 47	51		

SLOT SIZE 1 _____ 2 _____ 3 _____

DIAMETER OF SCREEN _____ (NEAREST INCH)
66 80

from _____ to _____

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)

T (E.R.O.S.) W Q

70 72 74 75 76

TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3

PUMPING TEST

HOURS PUMPED (nearest hour) N/A

PUMPING RATE (gal. per min.) _____

METHOD USED TO MEASURE PUMPING RATE _____

WATER LEVEL (distance from land surface)

BEFORE PUMPING _____ ft.
17 20

WHEN PUMPING _____ ft.
22 26

TYPE OF PUMP USED (for test)

A air P piston T turbine
 C centrifugal R rotary O other (describe below)
 J jet S submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP YES NO
(CIRCLE) (YES or NO)

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

TYPE OF PUMP INSTALLED
PLACE (A,C,J,P,R,S,T,O)
IN BOX 29

CAPACITY: GALLONS PER MINUTE (to nearest gallon) N/A
31 36

PUMP HORSE POWER _____
37 41

PUMP COLUMN LENGTH (nearest ft.) _____
43 47

CASING HEIGHT (circle appropriate box and enter casing height)

+ above } LAND SURFACE
49 } (nearest foot)
 - below }

LATITUDE 39.520074
LONGITUDE 76.558981
(DEFAULT COORD. WGS 84)

NOTES:

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED: YES NO N

CIRCLE APPROPRIATE LETTER
A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED
E ELECTRIC LOG OBTAINED.
P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO. MWD552
Thom Phlegle
DRILLERS SIGNATURE
(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. JWD314
Carey Knaul

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

DRILLER