DEPARTMENT OF THE ARMY
US ARMY INSTALLATION MANAGEMENT COMMAND
HEADQUARTERS, UNITED STATES ARMY GARRISON
4551 LLEWELLYN AVENUE, SUITE 5000
FORT GEORGE G. MEADE, MARYLAND 20755-5000

REPLY TO ATTENTION OF:

December 16, 2014

Environmental Division

Mr. John Burchette
NPL/BRAC/Federal Facilities Branch
U.S. Environmental Protection Agency
1650 Arch Street
Philadelphia, PA 19103-2029

Dear Mr. Burchette:

Enclosed please find the *Fourth Quarter 2014 Groundwater Monitoring Results (October – December 2014) and Annual Data Review* for FGGM-13, Former Pesticide Shop at Fort George G. Meade for your review and comment. Copies of the submittal have also been furnished to Fran Coulters (U.S. Army Environmental Command), Elisabeth Green (Maryland Department of the Environment), and the Fort George G. Meade Restoration Advisory Board.

While the Federal Facility Agreement allows for a 60 calendar day review period, the Army requests expedited review on or before December 23, 2014. Written comments should be addressed to Fort. George. G. Meade, Attention: IMME-PWE (George Knight), 4216 Roberts Ave., Suite 5115, Fort Meade, Maryland 20755-7068 or george.b.knight7.civ@mail.mil.

If you have any questions, please feel free to contact Ms. Denise Tegtmeyer at (301) 677-9559 or me at (301) 677-7999.

Sincerely,

George B. Knight, PG
Acting Program Manager, Installation Restoration Program
Directorate of Public Works-Environmental Division

Enclosure

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ENVIRONMENT

Mr. George B. Knight, PG
U.S. Army Garrison Fort George G. Meade
Directorate of Public Works, Environment Division
4216 Roberts Ave., Suite 5115
Fort Meade, Maryland 20755-7068

Subject:
Fourth Quarter 2014 Groundwater Monitoring Results (October – December 2014) and Annual Data Review
FGGM 13, Former Pesticide Shop, Building 6621
Fort George G. Meade, Anne Arundel County, Maryland

Date:
December 16, 2014

Contact:
Brian Stempowski

Phone:
410.923.7828

Email:
brian.stempowski@arcadis-us.com

Our ref:
GP09MEAD.PEST

Dear Mr. Knight:

Following implementation of the groundwater remedy at the Former Pesticide Shop, Building 6621 (the Site) in March 2014, long term monitoring was initiated in accordance with the program outlined in the Remedial Design (RD; ARCADIS U.S., Inc. [ARCADIS], 2013) and as summarized in **Table 1**. The third quarterly sampling event following remedy implementation was conducted October 16 - 17, 2014. Previous long term monitoring activities conducted during the second and third quarters of 2014 and analytical results were presented by ARCADIS in separate letters titled Second Quarter 2014 Groundwater Monitoring Results (ARCADIS, 2014a) and Third Quarter 2014 Groundwater Monitoring Results (ARCADIS, 2014b). Baseline groundwater monitoring results, collected prior to implementation of the remedy, are presented in the Remedial Action Completion Report (RACR; ARCADIS, 2014c).

This letter presents fourth quarter data collected during the third quarterly monitoring event conducted following remedy implementation, presents data trends since remedy implementation, and discusses future actions at the Site.

Fourth Quarter Analytical Results

Site activities conducted during the Fourth Quarter of 2014 consisted of the following:

- Collection of groundwater elevation measurements;
- Quarterly compliance groundwater sampling at nine monitoring wells for volatile organic compounds (VOCs), pesticides, and total/dissolved metals; and

- Quarterly performance monitoring at monitoring well (MW)-2R for total/dissolved organic carbon and dissolved gasses.

As indicated in the RD (ARCADIS, 2013) and as summarized in **Table 1**, nitrate, dissolved iron, sulfate, and volatile fatty acids are to be sampled at the Site on an as-needed basis to gain additional information pertaining to the status of reducing conditions in the aquifer. These parameters were not sampled during 2014; however, may be added to the monitoring program when the existing performance monitoring dataset does not provide sufficient information to support critical decision making (i.e., when determining if an additional injection is warranted or whether or not the selected carbon source is effective at the Site).

All site activities were conducted in accordance with approved site wide documents, standard operating procedures, and the monitoring program established in the RD (ARCADIS, 2013). **Figure 1** presents the groundwater monitoring well network. Field forms are located within **Attachment 1**. Analytical laboratory reports are presented in **Attachment 2**.

Prior to groundwater sampling activities, water levels in the monitoring network were gauged. Groundwater elevations measured in October 2014 ranged from 130.28 feet above mean sea level (ft amsl) at MW-8 to 150.90 ft amsl at MW-1R. Based on historic and current groundwater elevation data, groundwater flows to the southeast. Well construction specifications and water level data for the monitoring well network are provided in **Table 2**. A groundwater potentiometric map is provided on **Figure 2**.

A summary of 2014 groundwater analytical results for constituents of concern (COCs) identified at the Site is presented in **Table 3**. Quarterly performance monitoring data collected at MW-2R is summarized in **Table 4**. A comprehensive data table is provided in **Table 5**. The following summarizes Fourth Quarter 2014 groundwater analytical results for the COCs identified at the Site:

- Alpha-chlordane exceeded the Site Cleanup Level (SCL) of 2 micrograms per liter (µg/L) at two of the nine monitoring locations with the highest concentration occurring at MW-2R (3.6 µg/L).

- Gamma-BHC exceeded the SCL of 0.2 µg/L at two of the nine monitoring locations with the highest concentration occurring at MW-2R (29 µg/L).

- Gamma-chlordane exceeded the SCL of 2 µg/L at two of the nine monitoring locations with the highest concentration occurring at MW-2R and MW-3R (2.8 µg/L).

- Heptachlor was not detected at concentrations exceeding the SCL of 0.4 µg/L during the Fourth Quarter of 2014.

- Heptachlor epoxide exceeded the SCL of 0.2 µg/L at MW-2R (0.41 µg/L).

- Tetrachloroethene (PCE) exceeded the SCL of 5 µg/L at three of the nine monitoring locations with concentrations ranging from 12 µg/L at MW-9 to 53 µg/L at MW-2R.

- Trichloroethene (TCE) was not detected at concentrations exceeding the SCL of 5 µg/L during the Fourth Quarter of 2014.

All data collected during 2014 were validated in accordance with the Final Quality Assurance Project Plan (ARCADIS, 2010). Data validation is conducted by a third party and includes a review of the laboratory report narrative for noted deficiencies and the potential impact to data usability; review of chain-of-custodies, sample preservation, and sample receipt logs and electronic data validation of select quality control parameters. No major deficiencies were identified during the data validation. Quarterly data validation reports for analytical data collected during the second and third quarters of 2014 are provided in **Attachment 3**. Data validation for the fourth quarter analytical results is currently in progress.

2014 Data Trends

As stated within the Record of Decision (ROD; United Sates [U.S.] Army, 2012) and as modified in the Explanation of Significant Differences (U.S. Army, 2014), the selected response action for the Site included the following components:

- Excavation and off-Site disposal of pesticide impacted soils (completed February 2014);

- Enhanced reductive chlorination (ERD; completed March 14, 2014 via implementation of emulsified vegetable oil [EVO]/molasses injections) and long term monitoring for the treatment of chlorinated volatile organic compounds (CVOCs); and

- Implementation of land use controls (LUCs) including the installation of six signs around the perimeter of the Site (installed October 2014).

The major components of the selected response action were conducted from November 2013 through March 2014. Implementation of the selected response action is documented in the Draft RACR (ARCADIS, 2014c). The following subsections discuss 2014 data trends with respect to remedy performance.

PCE and TCE

In accordance with the RD (ARCADIS, 2013), an injection event was completed from March 10 to March 14, 2014 to address VOCs in groundwater. Specifically, injections were conducted to target PCE and TCE in groundwater at concentrations that exceed SCLs, as presented in the ROD (U.S. Army, 2012). The injection event delivered approximately 17,685 gallons of a 2 percent (%) EVO and 1% molasses solution into the aquifer utilizing six direct push injection points located along two transects aligned perpendicular to groundwater flow (**Figure 3**). The injection solution was injected to provide a slow-release carbon source to support biodegradation of the COCs (i.e., PCE and TCE). Documentation of the injection event including field notes and injection quantities is provided in the Draft RACR (ARCADIS, 2014c).

Performance monitoring data collected at MW-2R helps to document the effects of remedy implementation, to determine whether conditions remain favorable for reductive dechlorination reactions, and to verify the presence of degradation daughter products (e.g., methane, ethane, and ethene). In addition, CVOC data trends are reviewed to understand the rate and effectiveness of enhanced bioremediation of COCs, PCE and TCE. It is important to note, as of this report, three quarterly sampling events have been completed following implementation of the March 2014 injection event. Therefore, the preliminary data trends presented herein are presented with the caveat that additional sampling events are necessary to fully elucidate data trends within groundwater at the Site.

The primary degradation pathway for PCE and TCE is shown below:

- Tetrachloroethene → TCE → Dichloroethene (DCE) → Vinyl Chloride (VC) → Ethene → Ethane → Carbon Dioxide

Analytical results for Site COCs and performance monitoring results from 2014 including baseline results collected in the First Quarter of 2014 are provided in **Table**

3 and **Table 4**, respectively. Performance monitoring trend plots for MW-2R are presented in **Attachment 4**. 2014 PCE and TCE results are presented graphically on **Figure 4** and also in the data trend plots presented in **Attachment 5**. A discussion of data trends is provided below:

- PCE concentrations at the former source area (MW-2R) declined from 260 µg/L in June 2010 to 104 µg/L in March 2014. This decline, coupled with a corresponding increase in TCE concentrations, is likely indicative that natural attenuation was occurring at the Site prior to remedy implementation. A similar decline was observed downgradient at MW-3R with PCE decreasing from 25 µg/L in June 2010 to an estimated concentration of 0.52 µg/L in February 2014.

- Following the March 2014 injection event, PCE concentrations decreased at MW-2R from 104 µg/L in March 2014 (baseline) to 27 µg/L in June 2014. A corresponding increase of degradation product cis-1,2- DCE was observed throughout 2014 with a maximum concentration of 28 µg/L occurring in October 2014. TCE remained stable at concentrations below the SCL.

- Concentrations of dissolved organic carbon (DOC) at MW-2R increased immediately following the March 2014 injection (Baseline = 5 µg/L; Post Injection = 43 µg/L); however, concentrations decreased to levels slightly above baseline in the second, third, and fourth quarters of 2014 (October 2014 = 5.3 µg/L).

- Methane concentrations have increased steadily at MW-2R following the March 2014 injection event with a maximum concentration occurring in the Fourth Quarter of 2014 (850 µg/L). No concentrations of ethane or ethene were detected at MW-2R during 2014.

- Following the March 2014 injection event, concentrations of PCE and TCE increased above baseline concentrations at downgradient locations MW-3R, MW-4R, and MW-9 with maximum concentrations typically occurring in the Second Quarter of 2014 and decreasing throughout the remainder of 2014.

It is noted that methane concentrations within MW-2R increased concurrent to the consumption of DOC which is indicative of a viable microbial community able to support ERD. Furthermore, the concentrations of PCE exhibited a strong decline following EVO injection and overall the concentration of PCE within MW-2R decreased when compared to baseline conditions, while the degradation byproduct cis-1,2-DCE

increased. Therefore, CVOC data trends and performance monitoring results collected during 2014 indicate that the March 2014 injection event was successful in establishing an in-situ reactive zone in which reductive dechlorination of PCE and TCE is favorable in the vicinity of the Former Pesticide Shop (i.e. MW-2R). The historical maximum concentration of PCE was detected in June 2010 at MW-2R (260 µg/L). Concentrations of PCE at MW-2R have decreased since 2010 with the lowest concentration occurring immediately following the March 2014 injection event (June 2014 = 27 µg/L). Concentrations of PCE within the downgradient monitoring wells (e.g., MW-3R, MW-4R, and MW-9) have generally declined since the first long term monitoring event and are expected to continue to decline.

Pesticides

As indicated in the ROD (U.S. Army, 2012), long term groundwater monitoring of pesticides is conducted to monitor the expected decline in pesticide concentrations as a result of the excavation of impacted soils. Implementation of the removal action was completed December 2013 through February 2014 and consisted of the excavation and off-site disposal of 1,726 tons of pesticide impacted soil. Completion of the removal action is documented in the Draft RACR (ARCADIS, 2014c).

Analytical results for pesticide COCs (i.e., alpha-chlordane, gamma-BHC, gamma-chlordane, heptachlor, and heptachlor epoxide) are presented graphically on **Figure 5** and in the data trend plots presented in **Attachment 5**. A summary of the pesticide data collected during 2014 is presented below:

- Low level concentrations of pesticide COCs below their respective SCLs were observed in groundwater samples collected from both upgradient (MW-1R) and downgradient monitoring locations (MW-5, MW-6, MW-7, MW-8, and MW-9) and are consistent with historical results.

- Elevated concentrations above the SCL and in exceedance of historical maximum concentrations were observed in the vicinity of the former pesticide shop and the location of the removal action (i.e., MW-2R and MW-3R). In general, following the initial increase, concentrations of pesticide COCs have exhibited a decreasing trend.

Site Inspection

As indicated in the ROD (U.S. Army, 2012), an annual site inspection is required to (1) document that LUC signs are in place and in good condition and (2) confirm that land use has not changed at the Site. Six LUC signs were installed at the Site on October 2, 2014 and as documented in the Draft RACR (ARCADIS, 2014c). During the Fourth Quarter of 2014 sampling event (October 16 -17, 2014), a brief site inspection was conducted and confirmed that the LUC signs were installed properly and remained in new condition. A completed inspection form is included in **Attachment 1**. Furthermore, the land use at the Site remained unchanged and is currently under the operation of the Department of Emergency Services at Fort George G. Meade.

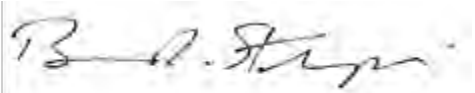
Remedy Performance and Future Actions

Per the RD (ARCADIS, 2013), the objective of the selected remedy (i.e., EVO/molasses injections and soil removal in the vicinity of MW-2R) is to reduce the highest COC concentrations in the source area through active treatment and bulk removal of pesticide impacted soil. As discussed in this letter report, EVO/molasses injections at the Site have been successful in stimulating conditions suitable for ERD, and a strong decline of COCs at MW-2R and an increase in corresponding degradation daughter product cis-1,2-DCE is a direct result of the injections conducted in March 2014. It is anticipated that a second injection event will be conducted during the Spring of 2016. As previously noted, only three quarterly sampling events have been conducted since remedy implementation, therefore, the timing of this second injection event will be dependent upon the results of additional quarterly and semi-annual sampling events conducted during 2015.

Should you have any questions or comments, please contact the undersigned at your earliest convenience. The next quarterly sampling event will be scheduled during the First Quarter of 2015.

Sincerely,

ARCADIS U.S., Inc.



Brian R. Stempowski, PE, PMP
Phase Manager

Tim Llewellyn
Project Manager

Copies:
Francis Coulters – 1 hard copy and 1 CD

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Attachments:
Attachment 1 - Field Forms
Attachment 2 - Lab Reports (Provided on CD)
Attachment 3 - Data Validation Reports (Provided on CD)
Attachment 4 - Performance Monitoring Charts
Attachment 5 - Data Trend Charts

References:
ARCADIS. 2010. Final Quality Assurance Project Plan, Fort George G. Meade, Maryland. March.

ARCADIS. 2013. Final Remedial Design, FGGM 13 Former Pesticide Shop, Fort George G. Meade, Maryland. Final. November 2013.

ARCADIS. 2014a. Second Quarter 2014 Groundwater Monitoring Results (April – June 2014), FGGM 13 Former Pesticide Shop, Fort George G. Meade, Maryland. Final. October 2014.

ARCADIS. 2014b. Third Quarter 2014 Groundwater Monitoring Results (July – September 2014), FGGM 13 Former Pesticide Shop, Fort George G. Meade, Maryland. Final. November 2014.

ARCADIS. 2014c. Draft Remedial Action Completion Report, FGGM 13 Former Pesticide Shop, Fort George G. Meade, Maryland. Draft. September 2014.

United States Army (U.S. Army). 2012. Record of Decision, FGGM 13 Former Pesticide Shop, Fort George G. Meade, Maryland. Final. September 2012.

U.S. Army. 2014. Explanation of Significant Differences for the Former Pesticide Shop (FGGM 13), Fort George G. Meade, Maryland. Final. June 2014.

Tables

Table 1
Long Term Monitoring Program Summary
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland

Category	Analytical Parameters	Sampling Frequency	Monitoring Wells	Sampling Method
Compliance Groundwater Monitoring				
Compliance Monitoring Constituents	Target Compount List Volatile Organic Compounds (USEPA Method 8260B) Pesticides (USEPA Method 8081B) Target Analyte List Metals (USEPA Method 6010C/6020A)	Year 1: quarterly Years 2 – 3: semi-annually[2] Year 4 - cessation of long term monitoring: Annually[2,3]	MW-1R MW-2R MW-3R MW-4R MW-5 MW-6 MW-7 MW-8 MW-9	Low Flow Sampling
Performance Monitoring				
Biogeochemical parameters, dissolved gasses	pH temperature specific conductance	Concurrent with compliance groundwater monitoring schedule.	MW-2R	Low Flow Sampling
	methane, ethane, ethene (USEPA Method RSK-175)			
	TOC and DOC (USEPA Method 5031)			
	nitrate dissolved iron sulfate volatile fatty acids	As Needed Basis		

Notes:
1. The groundwater monitoring program may be modified over time based on performance monitoring results, upon United States Environmental Protection Agency (USEPA) concurrence.

2. Monitoring will be conducted at select monitoring wells to be determined following an evaluation of Year 1 results.

3. The cessation of long term monitoring will be evaluated during the CERCLA five year review process.

DOC - dissolved organic carbon

TOC - total organic carbon

Table 2
Groundwater Elevation Data
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland

Well ID	Northing[1]	Easting[1]	Measuring Point Elevation[2] (ft msl)	Screened Interval (ft bgs)	Screen Length (ft)	Total Depth (ft bgs)	2/25/2014[3]		6/25/2014		9/9/2014		10/16/2014	
							Depth to Water (ft bmp)	GW Elevation (ft msl)	Depth to Water (ft bmp)	GW Elevation (ft msl)	Depth to Water (ft bmp)	GW Elevation (ft msl)	Depth to Water (ft bmp)	GW Elevation (ft msl)
MW-1R	521751.5	1383628	171.20	13.5-23.5	10	23.5	19.54	151.66	19.69	151.51	19.69	151.51	20.30	150.90
MW-2R	521722.4	1383925	159.38	20 - 30	10	30	17.24	142.14	16.24	143.14	16.80	142.58	16.65	142.73
MW-3R	521714.7	1384060	154.80	17 - 27	10	27	17.79	137.01	16.58	138.22	17.79	137.01	18.32	136.48
MW-4R	521556.2	1384117	155.54	20 - 30	10	30	18.93	136.61	17.84	137.70	19.04	136.50	19.58	135.96
MW-5	521847.0	1384202	154.36	24.31 - 34.31	10	35	17.71	136.65	16.70	137.66	17.71	136.65	18.16	136.20
MW-6	521752.3	1384617	139.49	14.40 - 24.40	10	25	5.88	133.61	5.51	133.98	6.15	133.34	6.22	133.27
MW-7	521718.1	1384898	136.10	11.89 - 21.89	10	23	3.75	132.35	3.81	132.29	4.30	131.80	4.28	131.82
MW-8	521040.3	1384822.0	135.86	12.05 - 22.05	10	24	4.97	130.89	4.66	131.20	5.39	130.47	5.58	130.28
MW-9	521686.3	1384250	148.46	20 - 30	10	30	12.32	136.14	11.61	136.85	12.60	135.86	13.04	135.42

Notes:

(1) Horizontal coordinates: NAD 83/10, Maryland, US Feet.

(2) Vertical elevations: NAVD 1988, US Feet.

(3) All monitoring wells were gauged on February 25, 2014, with the exception of MW-2R and MW-9 which were gauged March 5, 2014.

ft bgs - feet below ground surface

ft bmp - feet below measuring point

ft msl - feet above mean sea level

GW - groundwater

NM - not measured

Table 3
2014 Groundwater Constituents of Concern Results
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland

Monitoring Location:			MW-1R				MW-2R				MW-3R				MW-4R			
Sample Date:			**Baseline**	**2Q**	**3Q**	**4Q**	**Baseline**	**2Q**	**3Q**	**4Q**	**Baseline**	**2Q**	**3Q**	**4Q**	**Baseline**	**2Q**	**3Q**	**4Q**
			2/24/2014	6/26/2014	9/9/2014	10/17/2014	3/5/2014	6/25/2014	9/10/2014	10/17/2014	2/24/2014	6/25/2014	9/10/2014	10/17/2014	2/24/2014	6/26/2014	9/10/2014	10/16/2014
Analyte Group	**Units**	**SCL**																
Pesticides																		
Alpha-chlordane	µg/L	2	< 0.17 U	0.0038 J	< 0.0083 U	< 0.0082 U	1.9 J	**9.8 J**	**2.4**	**3.6**	0.21	**3.1**	**2.9**	**2.3**	0.31 (0.33)	0.38 J	0.29 (0.29)	0.19
Gamma-BHC	µg/L	0.2	< 0.17 U	< 0.0085 U	< 0.0083 U	< 0.0082 U	**10.9**	**4.5 J**	**20**	**29**	0.098 J	**0.52**	0.18	**0.27**	0.034 J (0.035 J)	0.052 J	0.12 (0.12)	0.033
Gamma-chlordane	µg/L	2	< 0.17 U	< 0.0085 U	< 0.0083 U	< 0.0082 U	1.3 J	**9.9 J**	**1.5**	**2.8**	0.35	**2.7**	**3.1**	**2.8**	< 0.17 U (0.21)	0.34 J	0.23 (0.24)	0.17
Heptachlor	µg/L	0.4	< 0.17 U	< 0.0085 U	0.0019 J	< 0.0082 U	0.16 J	< 0.15 UJ	0.13	0.22	< 0.16 U	< 0.020 U	< 0.081 U	< 0.040 U	< 0.17 U (< 0.17 U)	< 0.0081 UJ	< 0.0081 U (< 0.0080 U)	< 0.0083 U
Heptachlor epoxide	µg/L	0.2	< 0.17 U	< 0.0085 U	< 0.0083 U	< 0.0082 U	< 0.17 U	**0.32 J**	**0.30**	**0.41**	< 0.16 U	**0.58**	< 0.081 U	< 0.040 U	< 0.17 U (< 0.17 U)	< 0.046 UJ	< 0.0081 UJ (0.084 J)	< 0.022 U
Volatile Organic Compounds																		
Tetrachloroethene	µg/L	5	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	**104**	**27**	**45**	**53**	0.52 J	**97**	**72**	**34**	1.7 (1.8)	**6.4**	2.2 (2.2)	1.0
Trichloroethene	µg/L	5	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	2.7	1.6	2.2	2.6	< 1.0 U	3.0	1.7	1.3	< 1.0 U (< 1.0 U)	0.3 J	< 0.5 U (< 0.5 U)	< 0.5 U
Water Quality Parameters																		
pH	S.U.	---	3.61	3.77	3.36	3.14	7.09	6.85	6.24	6.32	6.53	6.23	6.22	5.85	5.72	5.40	5.75	5.6
Specific Conductivity	$mScm^{-1}$	---	1.319	2.508	2.668	2.783	0.859	0.739	0.901	0.744	0.346	0.514	0.518	0.732	0.517	0.379	0.441	0.387
Dissolved Oxygen	mg/L	---	1.16	0.51	0.4	1.82	6.14	0.73	0.3	1.89	10.05	9.16	9.13	4.52	7.80	8.51	6.25	6.64
Temperature	°C	---	11.82	18.05	18.34	16.61	12.0	18.14	18.74	18.1	8.91	15.30	15.07	16.86	14.56	15.70	17.35	17.01
Oxidation Reduction Potential	mV	---	331.2	346.9	344.3	90.5	10.29	-33.3	-12.4	-0.2	280.9	103.2	103.8	126.9	188.2	134.3	77.9	155.6

Notes:

1. Values exceeding the applicable Site Cleanup Level (SCL) are boldfaced and shaded.

2. Duplicate sample results are provided in parenthesis adjacent to results presented for the parent sample location.

--- - Not applicable
°C - degrees Celcius
µg/L - micrograms per liter
mg/L - milligrams per liter
$mScm^{-1}$ - miliSieman per centimeter
mV - millivolt
D - dissolved
T - total
S.U. - Standard Units
J - Indicates an estimated result. Result is less than laboratory reporting limits.
U - Indicates the analyte was analyzed but not detected above the detection limit.

Table 3
2014 Groundwater Constituents of Concern Results
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland

Monitoring Location:			MW-5				MW-6				MW-7				MW-8				MW-9			
Sample Date:			Baseline	2Q	3Q	4Q	Baseline	2Q	3Q	4Q	Baseline	2Q	3Q	4Q	Baseline	2Q	3Q	4Q	Baseline	2Q	3Q	4Q
			2/24/2014	6/26/2014	9/10/2014	10/16/2014	2/25/2014	6/26/2014	9/9/2014	10/16/2014	2/25/2014	6/26/2014	9/9/2014	10/16/2014	2/25/2014	6/27/2014	9/10/2014	10/16/2014	3/5/2014	6/26/2014	9/9/2014	10/16/2014
Analyte Group	**Units**	**SCL**																				
Pesticides																						
Alpha-chlordane	µg/L	2	< 0.16 U	0.0095	0.0045 J	< 0.0082 U	< 0.16 U	0.016	0.0035 J	< 0.0083 U	< 0.16 U	0.014	0.015	0.010	< 0.17 U	0.0058 J	0.021	0.015	0.14 J	0.34	0.77	0.48
Gamma-BHC	µg/L	0.2	< 0.16 U	< 0.0089 U	0.0035 J	< 0.0082 U	< 0.16 U	< 0.0081 U	< 0.0081 U	< 0.0083 U	< 0.16 U	< 0.0084 U	< 0.0093 U	< 0.0081 U	< 0.17 U	0.020	0.014	0.017	0.021 J	0.11	0.097	0.067
Gamma-chlordane	µg/L	2	< 0.16 U	0.0089 J	< 0.0083 U	< 0.0082 U	< 0.16 U	0.013	< 0.0081 U	< 0.0083 U	< 0.16 U	0.012	0.014	0.0089	< 0.17 U	0.011	< 0.030 U	0.014	0.12 J	0.27	0.54	0.43
Heptachlor	µg/L	0.4	< 0.16 U	< 0.0089 U	< 0.0083 U	< 0.0082 U	< 0.16 U	< 0.0081 U	< 0.0081 U	< 0.0083 U	< 0.16 U	< 0.0084 U	< 0.0093 U	< 0.0081 U	< 0.17 U	< 0.0084 U	< 0.0080 U	< 0.0081 U	< 0.16 U	< 0.0081 U	0.0066 J	< 0.0084 U
Heptachlor epoxide	µg/L	0.2	< 0.16 U	< 0.0089 U	< 0.0083 U	< 0.0082 U	< 0.16 U	< 0.0081 U	< 0.0081 U	< 0.0083 U	< 0.16 U	< 0.0084 U	0.0036 J	< 0.0081 U	< 0.17 U	0.0019 J	0.0055 J	0.0039	< 0.16 U	0.046	< 0.0081 U	0.031
Volatile Organic Compounds																						
Tetrachloroethene	µg/L	5	< 1.0 U	0.1 J	< 0.5 U	< 0.5 U	< 1.0 U	0.2 J	< 0.5 U	0.1	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	2.4	**14**	**25**	**12**
Trichloroethene	µg/L	5	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	0.4 J	0.5 J	0.4
Water Quality Parameters																						
pH	S.U.	---	5.10	5.26	4.96	5.26	5.52	5.15	5.6	5.49	5.12	5.24	4.79	5.01	5.32	5.36	5.21	5.06	5.43	5.56	5.5	5.46
Specific Conductivity	$mScm^{-1}$	---	0.347	0.475	171.8	0.955	0.516	0.436	0.34	0.38	0.484	0.337	0.292	0.296	0.457	0.317	0.318	0.346	0.853	0.669	0.836	0.676
Dissolved Oxygen	mg/L	---	7.67	8.03	6.32	9.73	6.74	6.78	8.75	6.85	5.21	7.05	4.97	9.2	6.97	7.0	6.17	8.73	4.81	5.61	3.48	4.68
Temperature	°C	---	13.41	16.18	17.32	16.89	14.15	16.58	17.08	16.8	10.59	15.88	17.8	17.27	8.78	13.89	14.33	14.65	12.93	15.58	17.8	16.6
Oxidation Reduction Potential	mV	---	234.7	190.0	0.848	19.7	223.0	132.1	77.6	154.9	240.3	143.9	231.6	21.6	230.8	198.2	112.9	20.7	126.8	91.5	81.2	132.5

Notes:

1. Values exceeding the applicable Site Cleanup Level (SCL) are boldfaced and shaded.

2. Duplicate sample results are provided in parenthesis adjacent to results presented for the parent sample location.

--- - Not applicable
°C - degrees Celcius
µg/L - micrograms per liter
mg/L - milligrams per liter
$mScm^{-1}$ - miliSieman per centimeter
mV - millivolt
D - dissolved
T - total
S.U. - Standard Units
J - Indicates an estimated result. Result is less than laboratory reporting limits.
U - Indicates the analyte was analyzed but not detected above the detection limit.

Table 4
2014 Performance Monitoring Results
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland

Monitoring Location:		MW-2R				
Sample Date:		3/5/2014	3/14/2014	6/25/2014	9/10/2014	10/17/2014
		Baseline	Injection	2Q	3Q	4Q
Analyte Group	**Units**					
Biogeochemical Parameters						
Ethane	µg/L	< 1.0 U	NS	< 5.0 U	< 5.0 U	< 5.0
Ethene	µg/L	< 1.5 U	NS	< 5.0 U	< 5.0 U	< 5.0
Methane	µg/L	2	NS	< 5.0 U	450	850
Dissolved Organic Carbon	mg/L	5	43	5.1	5.3	5.3
Total Organic Carbon	mg/L	NS	73.9	7.7	8.2	7
Water Quality Parameters						
pH	S.U.	7.09	NS	6.85	6.24	6.32
Specific Conductivity	$mScm^{-1}$	0.859	NS	0.739	0.901	0.744
Dissolved Oxygen	mg/L	6.14	NS	0.73	0.3	1.89
Oxidation Reduction Potential	mV	12.0	NS	-33.3	-12.4	-0.2
Temperature	°C	10.29	NS	18.14	18.74	18.1

Notes:

°C - degrees Celcius

µg/L - micrograms per liter

mg/L - milligrams per liter

$mScm^{-1}$ - miliSieman per centimeter

mV - millivolt

NS - Not Sampled

S.U. - Standard Units

U - Indicates the analyte was analyzed but not detected above the detection limit.

Table 5
2014 Comprehensive Data Table
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland

			Location ID:	MW-1R	MW-1R	MW-1R	MW-1R	MW-1R	MW-1R	MW-2R	MW-2R	MW-2R
			Date:	4/15/2010	6/2/2010	2/24/2014	6/26/2014	9/9/2014	10/17/2014	4/15/2010	4/22/2010	6/2/2010
			Sample ID:	FM13-MW001R (041510)	FM13MW01R (060210)	FGGM13-1R(022414)	FGGM13-MW1R(062614)	FGGM13-MW1R(090914)	FGGM13-MW1R(101714)	FM13-MW002R (041510)	FM13MW002R (042210)-H	FM13MW02R (060210)
Analtye Group	**USEPA Method**	**Units**	**SCL**									
Metals												
Aluminum (D)	6010C	µg/L	--	**2700**	**16000**	NS	**11600 J**	**16500**	**25000**	**69 J**	NS	< 500 U (< 500 U)
Aluminum (T)	6010C	µg/L	--	**3400**	**16000**	NS	**11900 J**	**16600 J**	**25300**	**2000**	**1800 B**	**770 (940)**
Antimony (D)	6020A	µg/L	--	< 10 U	**7.5 UJ**	NS	< 40.0 U	< 2.0 U	< 2.0 U	< 10 U	NS	< 10 UJ (5.5 UJ)
Antimony (T)	6020A	µg/L	--	< 10 U	**4.8 U**	NS	< 40.0 U	< 2.0 U	< 2.0 U	< 10 U	**11 U**	**4.5 U (7.4 U)**
Arsenic (D)	6020A	µg/L	--	< 10 U	**8.4 U**	NS	< 40.0 U	**2.7 J**	**4.1 J**	< 10 U	NS	**30 U (25 U)**
Arsenic (T)	6020A	µg/L	--	< 10 U	**5.9 U**	NS	< 40.0 U	**2.7 J**	**3.6**	< 10 U	**6.0 J**	**32 U (34 U)**
Barium (D)	6010C	µg/L	--	**620**	**240**	NS	**63.2**	**52.1**	**53.5**	**54**	NS	**52 (50)**
Barium (T)	6010C	µg/L	--	**630**	**230**	NS	**61.9**	**54.8**	**47.9**	**63**	**75**	**57 (56)**
Beryllium (D)	6020A	µg/L	--	< 4.0 U	**2.6 J**	NS	**1.1 J**	**1.7**	**2.1**	< 4.0 U	NS	< 4.0 U (< 4.0 U)
Beryllium (T)	6020A	µg/L	--	< 4.0 U	**2.8 J**	NS	**1.2 J**	**1.7**	**2**	< 4.0 U	< 4.0 U	< 4.0 U (< 4.0 U)
Cadmium (D)	6020A	µg/L	--	**2.7**	**3.2**	NS	**1.7 J**	**1.6**	**1.5**	< 2.0 U	NS	< 2.0 U (< 2.0 U)
Cadmium (T)	6020A	µg/L	--	**3**	**2.8**	NS	**1.4 J**	**1.7**	**1.9**	< 2.0 U	< 2.0 U	< 2.0 U (< 2.0 U)
Calcium (D)	6010C	µg/L	--	**84000**	**50000**	NS	**52200**	**52500**	**57300**	**57000**	NS	**40000 (38000)**
Calcium (T)	6010C	µg/L	--	**84000**	**48000**	NS	**50500**	**52600**	**53800**	**55000**	**64000**	**41000 (41000)**
Chromium (D)	6010C	µg/L	--	< 5.0 U	**2.0 J**	NS	**9.1 J**	**25.2 J**	**17.1 J**	< 5.0 U	NS	< 5.0 U (< 5.0 U)
Chromium (T)	6010C	µg/L	--	< 5.0 U	< 5.0 U	NS	**3.7 J**	**77.5**	**41.4**	**1.9 J**	< 5.0 U	< 5.0 U (< 5.0 U)
Cobalt (D)	6010C	µg/L	--	**70**	**130**	NS	**27.6**	**36.5**	**49.8**	< 25 U	NS	< 25 U (< 25 U)
Cobalt (T)	6010C	µg/L	--	**78**	**130**	NS	**27.3**	**37.8**	**50.2**	< 25 U	< 25 U	< 25 U (< 25 U)
Copper (D)	6010C	µg/L	--	**15**	**130**	NS	**43.8**	**48**	**109**	< 5.0 U	NS	< 5.0 U (< 5.0 U)
Copper (T)	6010C	µg/L	--	**19**	**130**	NS	**35.2**	**30.1 J**	**108**	**4.4 J**	**8.1**	< 5.0 U (1.7 J)
Iron (D)	6010C	µg/L	--	**630**	**140**	NS	**3050 J**	**3390**	**3300**	< 100 U	NS	< 100 U (< 100 U)
Iron (T)	6010C	µg/L	--	**870**	**110**	NS	**2970 J**	**3580 J**	**2670**	**3100**	**4000**	**1000 (1100)**
Lead (D)	6020A	µg/L	--	**9.9 J**	**23**	NS	**6.8 J**	**5.9**	**11.2**	< 10 U	NS	**3.3 J (< 10 U)**
Lead (T)	6020A	µg/L	--	**11**	**20**	NS	**8.0 J**	**5.6**	**13**	**4.3 J**	**7.5 J**	< 10 U (< 10 U)
Magnesium (D)	6010C	µg/L	--	**13000**	**15000**	NS	**10100**	**11500**	**13100**	**4000 J**	NS	**3100 J (3000 J)**
Magnesium (T)	6010C	µg/L	--	**13000**	**14000**	NS	**9950**	**11600**	**13000**	**4000 J**	**4700 J**	**3200 J (3200 J)**
Manganese (D)	6010C	µg/L	--	**280**	**260**	NS	**162**	**186**	**201**	**16**	NS	**15 (15)**
Manganese (T)	6010C	µg/L	--	**280**	**240**	NS	**151**	**243**	**202**	**18**	**18**	**17 (17)**
Mercury (D)	7470A	µg/L	--	< 0.10 U	< 0.10 UJ	NS	< 0.20 U	< 0.20 U	< 0.20 U	< 0.10 U	NS	< 0.10 UJ (0.11 J)
Mercury (T)	7470A	µg/L	--	< 0.10 U	< 0.10 U	NS	< 0.20 U	< 0.20 U	< 0.20 U	< 0.10 U	**0.19**	< 0.10 U (< 0.10 U)
Nickel (D)	6010C	µg/L	--	**98**	**190**	NS	**55.7**	**90.5**	**102**	< 40 U	NS	< 40 U (< 40 U)
Nickel (T)	6010C	µg/L	--	**98**	**180**	NS	**49.7**	**147**	**119**	< 40 U	< 40 U	< 40 U (< 40 U)
Potassium (D)	6010C	µg/L	--	**24000**	**20000**	NS	**6270**	**6470**	**7230**	**3500 J**	NS	**3900 J (3300 J)**
Potassium (T)	6010C	µg/L	--	**24000**	**19000**	NS	**6220**	**6600**	**7240**	**4400 J**	**5200**	**3900 J (4200 J)**
Selenium (D)	6010C	µg/L	--	< 10 U	< 10 U	NS	< 40.0 U	< 40.0 U	< 40.0 U	< 10 U	NS	< 10 U (< 10 U)
Selenium (T)	6010C	µg/L	--	< 10 U	< 10 U	NS	< 40.0 U	< 40.0 U	< 40.0 U	< 10 U	< 10 U	< 10 U (< 10 U)
Silver (D)	6010C	µg/L	--	< 5.0 U	< 5.0 U	NS	< 10.0 U	< 10.0 U	< 10.0 U	< 5.0 U	NS	< 5.0 U (< 5.0 U)
Silver (T)	6010C	µg/L	--	< 5.0 U	< 5.0 U	NS	< 10.0 U	< 10.0 U	< 10.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
Sodium (D)	6010C	µg/L	--	**420000**	< 5000 U	NS	**341000**	**384000**	**387000**	**93000**	NS	**130000 (110000)**
Sodium (T)	6010C	µg/L	--	< 5000 U	**350000**	NS	**349000**	**384000**	**374000**	**90000**	**130000**	**120000 (130000)**
Thallium (D)	6020A	µg/L	--	< 50 U	**16 J**	NS	< 15.8 U	**0.16 J**	**0.20 J**	< 50 U	NS	< 50 U (< 50 U)
Thallium (T)	6020A	µg/L	--	< 50 U	**17 J**	NS	< 12.8 U	**0.17 J**	**0.2**	< 50 U	**20 U**	< 50 U (< 50 U)
Vanadium (D)	6010C	µg/L	--	< 50 U	< 50 U	NS	< 10.0 U	< 10.0 U	< 10.0 U	< 50 U	NS	< 50 U (< 50 U)
Vanadium (T)	6010C	µg/L	--	< 50 U	< 50 U	NS	< 10.0 U	< 10.0 U	< 10.0 U	< 50 U	< 50 U	< 50 U (< 50 U)
Zinc (D)	6010C	µg/L	--	**67**	**93**	NS	**148**	**141**	**182**	< 20 U	NS	< 20 U (< 20 U)
Zinc (T)	6010C	µg/L	--	**66**	**88**	NS	**143**	**157**	**177**	< 20 U	**8.9 J**	< 20 U (< 20 U)

Table 5
2014 Comprehensive Data Table
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland

			Location ID:	MW-1R	MW-1R	MW-1R	MW-1R	MW-1R	MW-1R	MW-2R	MW-2R	MW-2R
			Date:	4/15/2010	6/2/2010	2/24/2014	6/26/2014	9/9/2014	10/17/2014	4/15/2010	4/22/2010	6/2/2010
			Sample ID:	FM13-MW001R (041510)	FM13MW01R (060210)	FGGM13-1R(022414)	FGGM13-MW1R(062614)	FGGM13-MW1R(090914)	FGGM13-MW1R(101714)	FM13-MW002R (041510)	FM13MW002R (042210)-H	FM13MW02R (060210)
Analtye Group	**USEPA Method**	**Units**	**SCL**									
Pesticides												
4,4-DDD	8081B	µg/L	--	< 0.025 U	< 0.027 U	< 0.17 U	< 0.017 U	< 0.017 U	< 0.016 U	**5.6**	**5.3 J**	**3.5 (3.7 J)**
4,4-DDE	8081B	µg/L	--	< 0.025 U	< 0.027 U	< 0.17 U	< 0.017 U	< 0.017 U	< 0.016 U	**0.15**	**0.21 J**	**0.70 P (0.68 R)**
4,4-DDT	8081B	µg/L	--	< 0.025 U	**0.0088 J**	< 0.17 U	< 0.017 U	< 0.017 U	< 0.016 U	**1.2**	**1.7 J**	**0.61 P (0.63 J)**
Aldrin	8081B	µg/L	--	**0.0077 JP**	< 0.027 U	< 0.17 U	< 0.0085 U	< 0.0083 U	< 0.0082 U	**0.67 P**	< 0.029 UJ	**0.62 J (0.31 R)**
Alpha-BHC	8081B	µg/L	--	< 0.025 U	< 0.027 U	< 0.17 U	< 0.0085 U	< 0.0083 U	< 0.0082 U	**0.68 P**	**0.71 J**	**0.91 P (0.93 R)**
Alpha-chlordane	8081B	µg/L	2	< 0.025 U	< 0.027 U	< 0.17 U	**0.0038 J**	< 0.0083 U	< 0.0082 U	**1.8 P**	**1.4 J**	**2.4 P (2.4 J)**
Beta-BHC	8081B	µg/L	--	< 0.025 U	< 0.027 U	< 0.17 U	< 0.0085 U	< 0.0083 U	< 0.0082 U	**0.075 P**	< 0.029 UJ	**0.11 J (0.23 J)**
Camphechlor	8081B	µg/L	--	< 0.25 U	< 0.27 U	< 0.50 U	< 0.85 U	< 0.83 U	< 0.82 U	< 0.30 U	< 1.5 UJ	< 0.28 U (< 0.27 UJ)
Delta-BHC	8081B	µg/L	--	**0.059 P**	**0.03**	< 0.17 U	< 0.0085 U	< 0.0083 U	< 0.0082 U	**0.36 P**	**0.27 J**	**0.47 P (0.49 R)**
Dieldrin	8081B	µg/L	--	< 0.025 U	< 0.027 U	< 0.17 U	< 0.017 U	< 0.017 U	< 0.016 U	**1.4 P**	**1.4 J**	< 0.028 J (0.21 R)
Endosulfan I	8081B	µg/L	--	< 0.025 U	< 0.027 U	< 0.17 U	< 0.0085 U	< 0.0083 U	< 0.0082 U	**3.0 P**	**2.6 J**	**2.8 P (2.7 J)**
Endosulfan II	8081B	µg/L	--	< 0.025 U	< 0.027 U	< 0.17 U	< 0.017 U	< 0.017 U	< 0.016 U	**0.057**	< 0.029 UJ	< 0.028 U (< 0.027 UJ)
Endosulfan sulfate	8081B	µg/L	--	< 0.025 U	**0.0065 J**	< 0.17 U	< 0.017 U	< 0.017 U	< 0.016 U	**0.73 P**	**0.73 J**	**0.56 J (1.8 R)**
Endrin	8081B	µg/L	--	< 0.025 U	< 0.027 U	< 0.17 U	< 0.017 U	< 0.017 U	< 0.016 U	< 0.030 U	< 0.029 UJ	< 0.028 U (< 0.027 UJ)
Endrin aldehyde	8081B	µg/L	--	< 0.025 U	< 0.027 U	< 0.17 U	< 0.085 U	< 0.083 U	< 0.082 U	< 0.030 U	< 0.029 UJ	**0.016 J (0.034 J)**
Endrin ketone	8081B	µg/L	--	< 0.025 U	< 0.027 U	< 0.17 U	< 0.017 U	< 0.017 U	< 0.016 U	**0.23 P**	**0.12 J**	**0.22 (0.23 J)**
Gamma-BHC	8081B	µg/L	0.2	< 0.025 U	< 0.027 U	< 0.17 U	< 0.0085 U	< 0.0083 U	< 0.0082 U	**0.8**	**1.0 J**	**0.13 P (0.19 R)**
gamma-chlordane	8081B	µg/L	2	**0.012 JP**	< 0.027 U	< 0.17 U	< 0.0085 U	< 0.0083 U	< 0.0082 U	**2.0 P**	**1.8 J**	**3.3 (3.2 J)**
Heptachlor	8081B	µg/L	0.4	< 0.025 U	< 0.027 U	< 0.17 U	< 0.0085 U	**0.0019 J**	< 0.0082 U	< 0.030 U	**1.6 J**	**3.3 P (2.3 J)**
Heptachlor epoxide	8081B	µg/L	0.2	< 0.025 U	< 0.027 U	< 0.17 U	< 0.0085 U	< 0.0083 U	< 0.0082 U	**0.23 P**	**0.20 J**	< 0.028 U (< 0.027 UJ)
Methoxychlor	8081B	µg/L	--	< 0.10 U	< 0.11 U	< 0.17 U	< 0.085 U	< 0.083 U	< 0.082 U	**0.051 J**	**0.054 J**	**0.23 J (0.27 J)**
Volatile Organic Compounds												
1,1,1-Trichloroethane	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
1,1,2,2-Tetrachloroethane	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
1,1,2-trichloro-1,2,2-trifluoroethane	8260B	µg/L	--	NS	NS	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	NS	NS	NS (NS)
1,1,2-Trichloroethane	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
1,1-Dichloroethane	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
1,1-Dichloroethene	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
1,2,3-Trichlorobenzene	8260B	µg/L	--	< 5.0 UJ	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U (< 5.0 U)
1,2,4-Trichlorobenzene	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
1,2-Dibromo-3-chloropropane	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
1,2-Dibromoethane	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
1,2-Dichlorobenzene	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
1,2-Dichloroethane	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
1,2-Dichloropropane	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
1,3-Dichlorobenzene	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
1,4-Dichlorobenzene	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
2-Butanone	8260B	µg/L	--	< 10 U	< 10 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U	< 10 U (< 10 U)
4-Methyl-2-Pentanone	8260B	µg/L	--	< 10 U	< 10 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U	< 10 U (< 10 U)
Acetone	8260B	µg/L	--	**11 J**	**6.0 U**	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	**2.3 J**	**13 J**	**2.6 U (2.4 U)**
Benzene	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
Bromodichloromethane	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
Bromoform	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
Bromomethane	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
Carbon Disulfide	8260B	µg/L	--	**2.1 J**	< 5.0 U	< 1.0 U	< 0.5 U	< 1.0 U	< 2.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
Carbon Tetrachloride	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
CFC-11	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
CFC-12	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
Chlorobenzene	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
Chlorodibromomethane	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
Chloroethane	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
Chloroform	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
Chloromethane	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
cis-1,2-Dichloroethene	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
cis-1,3-Dichloropropene	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
Cyclohexane	8260B	µg/L	--	NS	NS	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	NS	NS	NS (NS)
Dichloromethane	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)

Table 5
2014 Comprehensive Data Table
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland

			Location ID:	MW-1R	MW-1R	MW-1R	MW-1R	MW-1R	MW-1R	MW-2R	MW-2R	MW-2R
			Date:	4/15/2010	6/2/2010	2/24/2014	6/26/2014	9/9/2014	10/17/2014	4/15/2010	4/22/2010	6/2/2010
			Sample ID:	FM13-MW001R (041510)	FM13MW01R (060210)	FGGM13-1R(022414)	FGGM13-MW1R(062614)	FGGM13-MW1R(090914)	FGGM13-MW1R(101714)	FM13-MW002R (041510)	FM13MW002R (042210)-H	FM13MW02R (060210)
Analtye Group	**USEPA Method**	**Units**	**SCL**									
Volatile Organic Compounds (continued)												
Isopropylbenzene	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
m,p-Xylene	8260B	µg/L	--	NS	NS	< 2.0 U	< 0.5 U	< 0.5 U	< 1.0 U	NS	NS	NS (NS)
Methyl Acetate	8260B	µg/L	--	NS	NS	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U	NS	NS	NS (NS)
Methyl N-Butyl Ketone	8260B	µg/L	--	< 10 U	< 10 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U	< 10 U (< 10 U)
Methylcyclohexane	8260B	µg/L	--	NS	NS	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	NS	NS	NS (NS)
Methyl-tert-butylether	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
o-Xylene	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
Styrene (Monomer)	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
Tetrachloroethene	8260B	µg/L	5	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	**93**	**110**	**260 (260)**
Toluene	8260B	µg/L	--	**0.20 J**	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	**0.99 J**	< 5.0 U	< 5.0 U (< 5.0 U)
trans-1,2-Dichloroethene	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
trans-1,3-Dichloropropene	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
Trichloroethene	8260B	µg/L	5	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	**4.3 J**	**5.5**	**76 (76)**
Vinyl chloride	8260B	µg/L	--	< 2.0 U	< 2.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 2.0 U	< 2.0 U	< 2.0 U (< 2.0 U)
Biogeochemical Parameters												
Ethane	RSK-175	µg/L	--	NS	NS	NS	NS	NS	NS	NS	NS	NS (NS)
Ethene	RSK-175	µg/L	--	NS	NS	NS	NS	NS	NS	NS	NS	NS (NS)
Methane	RSK-175	µg/L	--	NS	NS	NS	NS	NS	NS	NS	NS	NS (NS)
Dissolved Organic Carbon	5310	µg/L	--	NS	NS	NS	NS	NS	NS	NS	NS	NS (NS)
Total Organic Carbon	5310	µg/L	--	NS	NS	NS	NS	NS	NS	NS	NS	NS (NS)

Table 5
2014 Comprehensive Data Table
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland

			Location ID:	MW-2R	MW-2R	MW-2R	MW-2R	MW-2R	MW-2R	MW-3R	MW-3R	MW-3R
			Date:	4/19/2013	3/5/2014	3/14/2014	6/25/2014	9/10/2014	10/17/2014	4/15/2010	4/22/2010	6/2/2010
			Sample ID:	FM13MW2R(041913)	FGGM13/MW2R(030514)	MW-2R [031414]	FGGM13-MW2R(062514)	FGGM13-MW2R(091014)	FGGM13-MW2R(101714)	FM13-MW003R (041510)	FM13MW003R (042210)-H	FM13MW03R (060210)
Analtye Group	**USEPA Method**	**Units**	**SCL**									
Metals												
Aluminum (D)	6010C	µg/L	--	NS (NS)	NS	NS	**212 J**	< 400 U	< 400 U	< 500 U	NS	< 500 U
Aluminum (T)	6010C	µg/L	--	NS (NS)	NS	NS	**50400 J**	**5780 J**	**3190**	**770**	**530 B**	**1100**
Antimony (D)	6020A	µg/L	--	NS (NS)	NS	NS	< 40.0 U	< 2.0 U	< 2.0 U	< 10 U	NS	< 10 UJ
Antimony (T)	6020A	µg/L	--	NS (NS)	NS	NS	< 40.0 U	**0.42 J**	< 2.0 U	< 10 U	**6.0 U**	< 10 U
Arsenic (D)	6020A	µg/L	--	NS (NS)	NS	NS	**193**	**584**	**772 J**	< 10 U	NS	**3.0 U**
Arsenic (T)	6020A	µg/L	--	NS (NS)	NS	NS	**489**	**595**	**826**	< 10 U	< 10 U	**4.2 U**
Barium (D)	6010C	µg/L	--	NS (NS)	NS	NS	**63.3**	**67.3**	**48.7**	**23 J**	NS	**82**
Barium (T)	6010C	µg/L	--	NS (NS)	NS	NS	**326**	**100**	**76.2**	**27**	**26**	**82**
Beryllium (D)	6020A	µg/L	--	NS (NS)	NS	NS	< 10.0 U	< 1.0 U	< 1.0 U	< 4.0 U	NS	< 4.0 U
Beryllium (T)	6020A	µg/L	--	NS (NS)	NS	NS	**1.6 J**	**0.23 J**	**0.1**	< 4.0 U	< 4.0 U	< 4.0 U
Cadmium (D)	6020A	µg/L	--	NS (NS)	NS	NS	< 10.0 U	< 1.0 U	< 1.0 U	< 2.0 U	NS	< 2.0 U
Cadmium (T)	6020A	µg/L	--	NS (NS)	NS	NS	< 10.0 U	**0.26 J**	< 1.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Calcium (D)	6010C	µg/L	--	NS (NS)	NS	NS	**56900**	**52500**	**41700**	**33000**	NS	**49000**
Calcium (T)	6010C	µg/L	--	NS (NS)	NS	NS	**64400**	**54000**	**38900**	**34000**	**34000**	**46000**
Chromium (D)	6010C	µg/L	--	NS (NS)	NS	NS	< 30.0 U	**1.3 J**	< 30.0 U	< 5.0 U	NS	< 5.0 U
Chromium (T)	6010C	µg/L	--	NS (NS)	NS	NS	**130**	**13.5 J**	**6.8**	< 5.0 U	< 5.0 U	< 5.0 U
Cobalt (D)	6010C	µg/L	--	NS (NS)	NS	NS	**5.6 J**	**7.2 J**	**6.5 J**	< 25 U	NS	< 25 U
Cobalt (T)	6010C	µg/L	--	NS (NS)	NS	NS	**19.2**	**9.0 J**	**7.3**	< 25 U	< 25 U	< 25 U
Copper (D)	6010C	µg/L	--	NS (NS)	NS	NS	< 20.0 U	< 20.0 U	< 20.0 U	< 5.0 U	NS	< 5.0 U
Copper (T)	6010C	µg/L	--	NS (NS)	NS	NS	**102**	**13.5 J**	**6.6**	**2.3 J**	**2.3 J**	**2.1 J**
Iron (D)	6010C	µg/L	--	NS (NS)	NS	NS	**2880 J**	**15800**	**17200**	< 100 U	NS	< 100 U
Iron (T)	6010C	µg/L	--	NS (NS)	NS	NS	**73100 J**	**22700 J**	**19900**	**1500**	**1900**	**2100**
Lead (D)	6020A	µg/L	--	NS (NS)	NS	NS	< 30.0 U	**0.094 J**	< 2.0 U	< 10 U	NS	< 10 U
Lead (T)	6020A	µg/L	--	NS (NS)	NS	NS	**73.7**	**10.2**	**3**	< 10 U	**6.6 J**	< 10 U
Magnesium (D)	6010C	µg/L	--	NS (NS)	NS	NS	**5530**	**4630**	**3810**	**2100 J**	NS	**4900 J**
Magnesium (T)	6010C	µg/L	--	NS (NS)	NS	NS	**8300**	**4960**	**3900**	**2200 J**	**2200 J**	**4600 J**
Manganese (D)	6010C	µg/L	--	NS (NS)	NS	NS	**483**	**916**	**691**	< 15 U	NS	< 15 U
Manganese (T)	6010C	µg/L	--	NS (NS)	NS	NS	**630**	**980**	**655**	**5.1 J**	< 15 U	**6.1 J**
Mercury (D)	7470A	µg/L	--	NS (NS)	NS	NS	< 0.20 U	< 0.20 U	< 0.20 U	< 0.10 U	NS	**0.058 J**
Mercury (T)	7470A	µg/L	--	NS (NS)	NS	NS	**0.38 J**	**0.12 J**	< 0.20 U	< 0.10 U	< 0.10 U	< 0.10 U
Nickel (D)	6010C	µg/L	--	NS (NS)	NS	NS	< 20.0 U	**1.9 J**	< 20.0 U	< 40 U	NS	< 40 U
Nickel (T)	6010C	µg/L	--	NS (NS)	NS	NS	**22.9**	**2.7 J**	**2.3**	< 40 U	< 40 U	< 40 U
Potassium (D)	6010C	µg/L	--	NS (NS)	NS	NS	**2950**	**3030**	**2750**	**2600 J**	NS	**5000**
Potassium (T)	6010C	µg/L	--	NS (NS)	NS	NS	**11300**	**4070**	**3460**	**2700 J**	**3100 J**	**4500 J**
Selenium (D)	6010C	µg/L	--	NS (NS)	NS	NS	< 40.0 U	< 40.0 U	< 40.0 U	< 10 U	NS	< 10 U
Selenium (T)	6010C	µg/L	--	NS (NS)	NS	NS	**5.3 J**	< 40.0 U	< 40.0 U	< 10 U	< 10 U	< 10 U
Silver (D)	6010C	µg/L	--	NS (NS)	NS	NS	< 10.0 U	< 10.0 U	< 10.0 U	< 5.0 U	NS	< 5.0 U
Silver (T)	6010C	µg/L	--	NS (NS)	NS	NS	< 10.0 U	< 10.0 U	< 10.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Sodium (D)	6010C	µg/L	--	NS (NS)	NS	NS	**94000**	**96500**	**80900**	**18000**	NS	**120000**
Sodium (T)	6010C	µg/L	--	NS (NS)	NS	NS	**96600**	**99200**	**80100**	**19000**	**23000**	**110000**
Thallium (D)	6020A	µg/L	--	NS (NS)	NS	NS	< 9.4 U	< 1.0 U	< 1.0 U	< 50 U	NS	< 50 U
Thallium (T)	6020A	µg/L	--	NS (NS)	NS	NS	< 60.0 U	< 1.0 U	< 1.0 U	< 50 U	< 50 U	< 50 U
Vanadium (D)	6010C	µg/L	--	NS (NS)	NS	NS	**2.6 J**	< 10.0 U	< 10.0 U	< 50 U	NS	< 50 U
Vanadium (T)	6010C	µg/L	--	NS (NS)	NS	NS	**189**	**20.9**	**11.4**	< 50 U	< 50 U	< 50 U
Zinc (D)	6010C	µg/L	--	NS (NS)	NS	NS	**6.5 J**	**5.2 J**	< 7.6 U	< 20 U	NS	< 20 U
Zinc (T)	6010C	µg/L	--	NS (NS)	NS	NS	**119**	**20.1 J**	**14.1**	< 20 U	< 20 U	< 20 U

Table 5
2014 Comprehensive Data Table
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland

			Location ID:	MW-2R	MW-2R	MW-2R	MW-2R	MW-2R	MW-2R	MW-3R	MW-3R	MW-3R
			Date:	4/19/2013	3/5/2014	3/14/2014	6/25/2014	9/10/2014	10/17/2014	4/15/2010	4/22/2010	6/2/2010
			Sample ID:	FM13MW2R(041913)	FGGM13/MW2R(030514)	MW-2R [031414]	FGGM13-MW2R(062514)	FGGM13-MW2R(091014)	FGGM13-MW2R(101714)	FM13-MW003R (041510)	FM13MW003R (042210)-H	FM13MW03R (060210)
Analtye Group	**USEPA Method**	**Units**	**SCL**									
Pesticides												
4,4-DDD	8081B	µg/L	--	NS (NS)	**0.36**	NS	**2.6 J**	**0.58**	**1.1**	< 0.026 U	< 0.026 U	< 0.14 HU
4,4-DDE	8081B	µg/L	--	NS (NS)	< 0.17 U	NS	**0.37 J**	< 0.16 U	< 0.36 U	< 0.026 U	< 0.026 U	< 0.14 R
4,4-DDT	8081B	µg/L	--	NS (NS)	**0.45**	NS	**2.7 J**	**0.14 J**	**0.31**	**0.11 P**	**0.10 P**	< 0.14 R
Aldrin	8081B	µg/L	--	NS (NS)	< 0.17 U	NS	**0.034 J**	**0.029 J**	**0.035**	< 0.026 U	< 0.026 U	**0.14 PH**
Alpha-BHC	8081B	µg/L	--	NS (NS)	**0.19**	NS	**0.077 J**	**0.14**	**0.23**	**0.061**	**0.095 P**	**0.34 PH**
Alpha-chlordane	8081B	µg/L	2	NS (NS)	**1.9 J**	NS	**9.8 J**	**2.4**	**3.6**	**4.1**	**3.4**	**4.5 H**
Beta-BHC	8081B	µg/L	--	NS (NS)	< 0.17 U	NS	**0.017 J**	< 0.082 U	< 0.082 U	< 0.026 U	< 0.026 U	< 0.14 HU
Camphechlor	8081B	µg/L	--	NS (NS)	< 0.50 U	NS	< 0.82 UJ	< 8.2 U	< 8.2 U	< 0.26 U	< 0.26 U	< 1.4 HU
Delta-BHC	8081B	µg/L	--	NS (NS)	**0.053 J**	NS	< 0.0082 UJ	< 0.082 U	**0.039**	**0.53 P**	**0.75 P**	< 0.14 R
Dieldrin	8081B	µg/L	--	NS (NS)	**0.38**	NS	**1.0 J**	**0.45**	**0.63**	**0.24 P**	**0.35 P**	< 0.14 R
Endosulfan I	8081B	µg/L	--	NS (NS)	< 0.17 U	NS	**0.10 J**	**0.12**	**0.13**	< 0.026 U	**1.5 P**	**1.1 H**
Endosulfan II	8081B	µg/L	--	NS (NS)	< 0.17 U	NS	< 0.045 UJ	< 0.16 U	< 0.16 U	< 0.026 U	< 0.026 U	< 0.14 HU
Endosulfan sulfate	8081B	µg/L	--	NS (NS)	< 0.17 U	NS	**0.022 J**	< 0.16 U	< 0.16 U	**0.18 P**	**0.21 P**	**0.52 PH**
Endrin	8081B	µg/L	--	NS (NS)	< 0.17 U	NS	< 0.17 UJ	< 0.16 U	< 0.16 U	**0.068 P**	**0.063 P**	**0.12 JH**
Endrin aldehyde	8081B	µg/L	--	NS (NS)	< 0.17 U	NS	< 0.082 UJ	< 0.82 U	< 0.82 U	< 0.026 U	< 0.026 U	< 0.14 HU
Endrin ketone	8081B	µg/L	--	NS (NS)	< 0.17 U	NS	**0.048 J**	**0.053 J**	**0.046**	**0.11 P**	**0.13 P**	**0.076 JPH**
Gamma-BHC	8081B	µg/L	0.2	NS (NS)	**10.9**	NS	**4.5 J**	**20**	**29**	**0.11**	**0.16**	**0.082 JH**
gamma-chlordane	8081B	µg/L	2	NS (NS)	**1.3 J**	NS	**9.9 J**	**1.5**	**2.8**	**4.4**	**3.8**	**5.1 H**
Heptachlor	8081B	µg/L	0.4	NS (NS)	**0.16 J**	NS	< 0.15 UJ	**0.13**	**0.22**	< 0.026 U	< 0.026 U	< 0.14 HU
Heptachlor epoxide	8081B	µg/L	0.2	NS (NS)	< 0.17 U	NS	**0.32 J**	**0.3**	**0.41**	**0.097 P**	**0.31 P**	**0.16 H**
Methoxychlor	8081B	µg/L	--	NS (NS)	< 0.17 U	NS	**0.077 J**	< 0.82 U	< 0.82 U	< 0.10 U	< 0.10 U	< 0.55 HU
Volatile Organic Compounds												
1,1,1-Trichloroethane	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1,2,2-Tetrachloroethane	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	8260B	µg/L	--	NS (NS)	< 1.0 U	NS	< 0.5 U	< 0.5 U	< 0.5 U	NS	NS	NS
1,1,2-Trichloroethane	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethane	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethene	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2,3-Trichlorobenzene	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 UJ	< 5.0 U	< 5.0 U
1,2,4-Trichlorobenzene	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	**0.2 J**	**0.3 J**	**0.3**	< 5.0 U	< 5.0 U	< 5.0 U
1,2-Dibromo-3-chloropropane	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 5.0 U	NS	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2-Dibromoethane	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2-Dichlorobenzene	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2-Dichloroethane	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2-Dichloropropane	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
1,3-Dichlorobenzene	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
1,4-Dichlorobenzene	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	**0.1 J**	**0.3 J**	**0.4**	< 5.0 U	< 5.0 U	< 5.0 U
2-Butanone	8260B	µg/L	--	< 20 U (< 20 U)	< 5.0 U	NS	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U
4-Methyl-2-Pentanone	8260B	µg/L	--	< 20 U (< 20 U)	< 5.0 U	NS	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U
Acetone	8260B	µg/L	--	< 20 U (< 20 U)	< 5.0 U	NS	< 5.0 U	< 5.0 U	< 5.0 U	**2.0 J**	**11 J**	**3.3 U**
Benzene	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	**0.3 J**	**1.8**	**2.4**	< 5.0 U	< 5.0 U	< 5.0 U
Bromodichloromethane	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
Bromoform	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
Bromomethane	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
Carbon Disulfide	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	< 0.5 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Carbon Tetrachloride	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
CFC-11	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
CFC-12	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
Chlorobenzene	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	**0.4 J**	**2.3**	**3.5**	< 5.0 U	< 5.0 U	< 5.0 U
Chlorodibromomethane	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
Chloroethane	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
Chloroform	8260B	µg/L	--	**< 1.0 U (0.41 J)**	< 1.0 U	NS	**3.1**	**0.5**	**0.4**	< 5.0 U	< 5.0 U	**1.9 J**
Chloromethane	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
cis-1,2-Dichloroethene	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	**0.8**	**22**	**28**	< 5.0 U	< 5.0 U	< 5.0 U
cis-1,3-Dichloropropene	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
Cyclohexane	8260B	µg/L	--	NS (NS)	< 1.0 U	NS	< 0.5 U	< 0.5 U	< 0.5 U	NS	NS	NS
Dichloromethane	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U

Table 5
2014 Comprehensive Data Table
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland

			Location ID:	**MW-2R**	**MW-2R**	**MW-2R**	**MW-2R**	**MW-2R**	**MW-2R**	**MW-3R**	**MW-3R**	**MW-3R**
			Date:	4/19/2013	3/5/2014	3/14/2014	6/25/2014	9/10/2014	10/17/2014	4/15/2010	4/22/2010	6/2/2010
			Sample ID:	FM13MW2R(041913)	FGGM13/MW2R(030514)	MW-2R [031414]	FGGM13-MW2R(062514)	FGGM13-MW2R(091014)	FGGM13-MW2R(101714)	FM13-MW003R (041510)	FM13MW003R (042210)-H	FM13MW03R (060210)
Analtye Group	**USEPA Method**	**Units**	**SCL**									
Volatile Organic Compounds (continued)												
Isopropylbenzene	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	< 0.5 U	**0.1 J**	**0.2**	< 5.0 U	< 5.0 U	< 5.0 U
m,p-Xylene	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 2.0 U	NS	< 0.5 U	**0.1 J**	< 0.5 U	NS	NS	NS
Methyl Acetate	8260B	µg/L	--	NS (NS)	< 1.0 U	NS	< 1.0 U	< 1.0 U	< 1.0 U	NS	NS	NS
Methyl N-Butyl Ketone	8260B	µg/L	--	< 20 U (< 20 U)	< 5.0 U	NS	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U
Methylcyclohexane	8260B	µg/L	--	NS (NS)	< 1.0 U	NS	< 0.5 U	< 0.5 U	< 0.5 U	NS	NS	NS
Methyl-tert-butylether	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
o-Xylene	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	< 0.5 U	**0.1 J**	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
Styrene (Monomer)	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
Tetrachloroethene	8260B	µg/L	5	**210 (220)**	**104**	NS	**27**	**45**	**53**	**12**	**14**	**25**
Toluene	8260B	µg/L	--	**< 1.0 U (0.37 J)**	< 1.0 U	NS	< 0.5 U	< 0.5 U	< 0.5 U	**1.5 J**	< 5.0 U	< 5.0 U
trans-1,2-Dichloroethene	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	< 0.5 U	< 0.5 U	**0.1**	< 5.0 U	< 5.0 U	< 5.0 U
trans-1,3-Dichloropropene	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
Trichloroethene	8260B	µg/L	5	**35 (34)**	**2.7**	NS	**1.6**	**2.2**	**2.6**	**1.4 J**	**1.5 J**	**2.7 J**
Vinyl chloride	8260B	µg/L	--	< 1.0 U (< 1.0 U)	< 1.0 U	NS	< 0.5 U	< 0.5 U	< 0.5 U	< 2.0 U	< 2.0 U	< 2.0 U
Biogeochemical Parameters												
Ethane	RSK-175	µg/L	--	NS (NS)	< 1.0 U	NS	< 5.0 U	< 5.0 U	< 5.0 U	NS	NS	NS
Ethene	RSK-175	µg/L	--	NS (NS)	< 1.5 U	NS	< 5.0 U	< 5.0 U	< 5.0 U	NS	NS	NS
Methane	RSK-175	µg/L	--	NS (NS)	**2.0**	NS	< 5.0 U	**450**	**850**	NS	NS	NS
Dissolved Organic Carbon	5310	µg/L	--	NS (NS)	**5000**	**43000**	**5100**	**5300**	**5300**	NS	NS	NS
Total Organic Carbon	5310	µg/L	--	NS (NS)	NS	**73900**	**7700**	**8200**	**7000**	NS	NS	NS

Table 5
2014 Comprehensive Data Table
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland

			Location ID:	MW-3R	MW-3R	MW-3R	MW-3R	MW-3R	MW-4R	MW-4R	MW-4R	MW-4R
			Date:	4/19/2013	2/24/2014	6/25/2014	9/10/2014	10/17/2014	4/16/2010	4/22/2010	6/1/2010	2/24/2014
			Sample ID:	FM13MW3R(041913)	FGGM13-3R(022414)	FGGM13-MW3R(062514)	FGGM13-MW3R(091014)	FGGM13-MW3R(101714)	FM13-MW004R (041610)	FM13MW004R (042210)-H	FM13MW04R (060110)	FGGM13-4R (022414)
Analtye Group	**USEPA Method**	**Units**	**SCL**									
Metals												
Aluminum (D)	6010C	µg/L	--	NS	NS	< 400 U	< 400 U	< 400 U	**77 J (66 J)**	NS	< 500 U	NS (NS)
Aluminum (T)	6010C	µg/L	--	NS	NS	**322 J**	**239 J**	**837**	**460 J (500)**	**3700 B**	**1500**	NS (NS)
Antimony (D)	6020A	µg/L	--	NS	NS	< 40.0 U	**0.59 J**	**0.78 J**	< 10 U (< 10 U)	NS	< 10 UJ	NS (NS)
Antimony (T)	6020A	µg/L	--	NS	NS	< 40.0 U	**0.54 J**	**0.94**	< 10 U (< 10 U)	**5.9 U**	**4.6 U**	NS (NS)
Arsenic (D)	6020A	µg/L	--	NS	NS	< 40.0 U	< 4.0 U	< 4.0 U	< 10 U (< 10 U)	NS	**5.2 U**	NS (NS)
Arsenic (T)	6020A	µg/L	--	NS	NS	< 40.0 U	< 4.0 U	**0.96**	< 10 U (< 10 U)	**5.2 J**	**5.2 U**	NS (NS)
Barium (D)	6010C	µg/L	--	NS	NS	**56.4**	**60.2**	**61**	**39 (40)**	NS	**40**	NS (NS)
Barium (T)	6010C	µg/L	--	NS	NS	**58.3**	**61.4**	**64.1**	**41 (42)**	**65**	**50**	NS (NS)
Beryllium (D)	6020A	µg/L	--	NS	NS	< 10.0 U	< 1.0 U	< 1.0 U	< 4.0 U (< 4.0 U)	NS	< 4.0 U	NS (NS)
Beryllium (T)	6020A	µg/L	--	NS	NS	< 10.0 U	< 1.0 U	< 1.0 U	< 4.0 U (< 4.0 U)	< 4.0 U	< 4.0 U	NS (NS)
Cadmium (D)	6020A	µg/L	--	NS	NS	< 10.0 U	< 1.0 U	< 1.0 U	< 2.0 U (< 2.0 U)	NS	< 2.0 U	NS (NS)
Cadmium (T)	6020A	µg/L	--	NS	NS	< 10.0 U	< 1.0 U	< 1.0 U	< 2.0 U (< 2.0 U)	< 2.0 U	< 2.0 U	NS (NS)
Calcium (D)	6010C	µg/L	--	NS	NS	**32700**	**26600**	**22000**	**33000 (34000)**	NS	**26000**	NS (NS)
Calcium (T)	6010C	µg/L	--	NS	NS	**33800**	**28100**	**22100**	**34000 (34000)**	**36000**	**27000**	NS (NS)
Chromium (D)	6010C	µg/L	--	NS	NS	< 30.0 U	< 30.0 U	< 30.0 U	< 5.0 U (< 5.0 U)	NS	< 5.0 U	NS (NS)
Chromium (T)	6010C	µg/L	--	NS	NS	< 30.0 U	< 30.0 U	**2.2**	< 5.0 U (< 5.0 U)	**8.8**	**2.5 J**	NS (NS)
Cobalt (D)	6010C	µg/L	--	NS	NS	< 10.0 U	< 10.0 U	< 10.0 U	< 25 U (< 25 U)	NS	< 25 U	NS (NS)
Cobalt (T)	6010C	µg/L	--	NS	NS	< 10.0 U	< 10.0 U	< 10.0 U	< 25 U (< 25 U)	< 25 U	< 25 U	NS (NS)
Copper (D)	6010C	µg/L	--	NS	NS	< 20.0 U	< 20.0 U	< 20.0 U	< 5.0 U (< 5.0 U)	NS	< 5.0 U	NS (NS)
Copper (T)	6010C	µg/L	--	NS	NS	< 20.0 U	< 20.0 UJ	< 20.0 U	< 5.0 U (< 5.0 U)	**15**	**2.8 J**	NS (NS)
Iron (D)	6010C	µg/L	--	NS	NS	< 400 U	< 400 U	< 400 U	< 100 U (< 100 U)	NS	< 100 U	NS (NS)
Iron (T)	6010C	µg/L	--	NS	NS	**269 J**	**147 J**	**1270**	**930 (850)**	**16000**	**3200**	NS (NS)
Lead (D)	6020A	µg/L	--	NS	NS	< 30.0 U	< 2.0 U	**0.12 J**	< 10 U (< 10 U)	NS	< 10 U	NS (NS)
Lead (T)	6020A	µg/L	--	NS	NS	< 30.0 U	**0.19 J**	**0.39**	< 10 U (< 10 U)	**11**	**4.7 J**	NS (NS)
Magnesium (D)	6010C	µg/L	--	NS	NS	**2100**	**2450**	**2340**	**3900 J (3900 J)**	NS	**4300 J**	NS (NS)
Magnesium (T)	6010C	µg/L	--	NS	NS	**2170**	**2440**	**2390**	**3900 J (3900 J)**	**4700 J**	**4400 J**	NS (NS)
Manganese (D)	6010C	µg/L	--	NS	NS	**1.3 J**	**1.8 J**	**2.2 J**	**8.0 J (8.0 J)**	NS	**9.6 J**	NS (NS)
Manganese (T)	6010C	µg/L	--	NS	NS	**1.1 J**	**2.1 J**	**4.1**	**8.7 J (9.2 J)**	**24**	**17**	NS (NS)
Mercury (D)	7470A	µg/L	--	NS	NS	< 0.20 U	< 0.20 U	< 0.20 U	< 0.10 U (< 0.10 U)	NS	< 0.10 UJ	NS (NS)
Mercury (T)	7470A	µg/L	--	NS	NS	< 0.20 U	< 0.20 U	< 0.20 U	< 0.10 U (< 0.10 U)	**0.075 J**	< 0.10 U	NS (NS)
Nickel (D)	6010C	µg/L	--	NS	NS	< 20.0 U	< 20.0 U	< 20.0 U	< 40 U (< 40 U)	NS	< 40 U	NS (NS)
Nickel (T)	6010C	µg/L	--	NS	NS	< 20.0 U	< 20.0 U	< 20.0 U	< 40 U (< 40 U)	< 40 U	< 40 U	NS (NS)
Potassium (D)	6010C	µg/L	--	NS	NS	**2710**	**2960**	**2650**	**2500 J (2300 J)**	NS	**2000 J**	NS (NS)
Potassium (T)	6010C	µg/L	--	NS	NS	**2790**	**2970**	**2820**	**2700 J (2700 J)**	**3700 J**	**2600 J**	NS (NS)
Selenium (D)	6010C	µg/L	--	NS	NS	< 40.0 U	< 40.0 U	< 40.0 U	< 10 U (< 10 U)	NS	< 10 U	NS (NS)
Selenium (T)	6010C	µg/L	--	NS	NS	< 40.0 U	< 40.0 U	< 40.0 U	< 10 U (< 10 U)	< 10 U	< 10 U	NS (NS)
Silver (D)	6010C	µg/L	--	NS	NS	< 10.0 U	< 10.0 U	< 10.0 U	< 5.0 U (< 5.0 U)	NS	< 5.0 U	NS (NS)
Silver (T)	6010C	µg/L	--	NS	NS	< 10.0 U	< 10.0 U	< 10.0 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	NS (NS)
Sodium (D)	6010C	µg/L	--	NS	NS	**57300**	**108000**	**112000**	**39000 (37000)**	NS	**37000**	NS (NS)
Sodium (T)	6010C	µg/L	--	NS	NS	**57900**	**113000**	**110000**	**38000 (39000)**	**43000**	**38000**	NS (NS)
Thallium (D)	6020A	µg/L	--	NS	NS	< 6.5 U	< 1.0 U	< 1.0 U	< 50 U (< 50 U)	NS	< 50 U	NS (NS)
Thallium (T)	6020A	µg/L	--	NS	NS	< 60.0 U	< 1.0 U	< 1.0 U	< 50 U (< 50 U)	< 50 U	< 50 U	NS (NS)
Vanadium (D)	6010C	µg/L	--	NS	NS	< 10.0 U	< 10.0 U	< 10.0 U	< 50 U (< 50 U)	NS	< 50 U	NS (NS)
Vanadium (T)	6010C	µg/L	--	NS	NS	< 10.0 U	< 10.0 U	**3.2**	< 50 U (< 50 U)	**24 J**	< 50 U	NS (NS)
Zinc (D)	6010C	µg/L	--	NS	NS	**4.7 J**	< 40.0 U	< 4.0 U	< 20 U (< 20 U)	NS	< 20 U	NS (NS)
Zinc (T)	6010C	µg/L	--	NS	NS	**4.2 J**	< 40.0 U	**60.2**	< 20 U (< 20 U)	**9.7 J**	**6.2 J**	NS (NS)

Table 5
2014 Comprehensive Data Table
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland

			Location ID:	MW-3R	MW-3R	MW-3R	MW-3R	MW-3R	MW-4R	MW-4R	MW-4R	MW-4R
			Date:	4/19/2013	2/24/2014	6/25/2014	9/10/2014	10/17/2014	4/16/2010	4/22/2010	6/1/2010	2/24/2014
			Sample ID:	FM13MW3R(041913)	FGGM13-3R(022414)	FGGM13-MW3R(062514)	FGGM13-MW3R(091014)	FGGM13-MW3R(101714)	FM13-MW004R (041610)	FM13MW004R (042210)-H	FM13MW04R (060110)	FGGM13-4R (022414)
Analtye Group	**USEPA Method**	**Units**	**SCL**									
Pesticides												
4,4-DDD	8081B	µg/L	--	NS	< 0.16 U	< 0.017 U	< 0.16 U	**0.58**	< 0.026 U (< 0.026 U)	< 0.026 U	< 0.027 UJ	< 0.17 U (< 0.17 U)
4,4-DDE	8081B	µg/L	--	NS	< 0.16 U	< 0.048 U	< 0.16 U	**0.062**	< 0.026 U (< 0.026 U)	< 0.026 U	< 0.027 UJ	< 0.17 U (< 0.17 U)
4,4-DDT	8081B	µg/L	--	NS	< 0.16 U	**0.097**	< 0.16 U	**0.072**	< 0.026 U (< 0.026 U)	< 0.026 U	< 0.027 UJ	< 0.17 U (< 0.17 U)
Aldrin	8081B	µg/L	--	NS	< 0.16 U	**0.033**	**0.036 J**	< 0.040 U	< 0.026 U (< 0.026 U)	< 0.026 U	< 0.027 UJ	< 0.17 U (< 0.17 U)
Alpha-BHC	8081B	µg/L	--	NS	< 0.16 U	**0.08**	**0.055 J**	< 0.040 U	**0.023 J (0.032 P)**	< 0.026 U	**0.027 J**	< 0.17 U (< 0.17 U)
Alpha-chlordane	8081B	µg/L	2	NS	**0.21**	**3.1**	**2.9**	**2.3**	**0.59 (0.6)**	< 0.026 U	**0.62 J**	**0.31 (0.33)**
Beta-BHC	8081B	µg/L	--	NS	< 0.16 U	< 0.0085 U	< 0.081 U	< 0.040 U	< 0.026 U (< 0.026 U)	< 0.026 U	< 0.027 UJ	< 0.17 U (< 0.17 U)
Camphechlor	8081B	µg/L	--	NS	< 0.47 U	< 0.85 U	< 8.1 U	< 4.0 U	< 0.26 U (< 0.26 U)	< 0.26 U	< 0.27 UJ	< 0.51 U (< 0.51 U)
Delta-BHC	8081B	µg/L	--	NS	< 0.16 U	**0.047**	< 0.081 U	**0.024**	< 0.026 U (< 0.026 U)	< 0.026 U	< 0.027 UJ	< 0.17 U (< 0.17 U)
Dieldrin	8081B	µg/L	--	NS	< 0.16 U	**0.16**	**0.18**	**0.15**	**0.25 (0.26)**	< 0.026 U	**0.19 J**	**0.24 (0.27)**
Endosulfan I	8081B	µg/L	--	NS	< 0.16 U	**0.24**	**0.15**	**0.08**	**0.16 P (0.16 P)**	< 0.026 U	**0.18 J**	< 0.17 U (< 0.17 U)
Endosulfan II	8081B	µg/L	--	NS	< 0.16 U	< 0.017 U	< 0.16 U	< 0.081 U	< 0.026 U (< 0.026 U)	< 0.026 U	< 0.027 UJ	< 0.17 U (< 0.17 U)
Endosulfan sulfate	8081B	µg/L	--	NS	< 0.16 U	**0.053**	< 0.16 U	**0.026**	**0.048 P (0.050 P)**	< 0.026 U	**0.081 J**	< 0.17 U (0.022 J)
Endrin	8081B	µg/L	--	NS	< 0.16 U	< 0.060 U	< 0.16 U	< 0.081 U	< 0.026 U (0.011 J)	< 0.026 U	**0.024 J**	< 0.17 U (< 0.17 U)
Endrin aldehyde	8081B	µg/L	--	NS	< 0.16 U	< 0.085 U	< 0.81 U	< 0.40 U	**0.0061 JP (< 0.026 U)**	< 0.026 U	< 0.027 UJ	< 0.17 U (< 0.17 U)
Endrin ketone	8081B	µg/L	--	NS	< 0.16 U	**0.1**	< 0.16 U	< 0.081 U	**0.021 J (0.022 J)**	< 0.026 U	**0.027 J**	< 0.17 U (< 0.17 U)
Gamma-BHC	8081B	µg/L	0.2	NS	**0.098 J**	**0.52**	**0.18**	**0.27**	**0.044 (0.042)**	< 0.026 U	**0.025 J**	**0.034 J (0.035 J)**
gamma-chlordane	8081B	µg/L	2	NS	**0.35**	**2.7**	**3.1**	**2.8**	**0.71 (0.68)**	< 0.026 U	**0.69 J**	< 0.17 U (0.21)
Heptachlor	8081B	µg/L	0.4	NS	< 0.16 U	< 0.020 U	< 0.081 U	< 0.040 U	< 0.026 U (< 0.026 U)	< 0.026 U	< 0.027 UJ	< 0.17 U (< 0.17 U)
Heptachlor epoxide	8081B	µg/L	0.2	NS	< 0.16 U	**0.58**	< 0.081 U	< 0.040 U	**0.031 (0.034)**	< 0.026 U	**0.052 J**	< 0.17 U (< 0.17 U)
Methoxychlor	8081B	µg/L	--	NS	< 0.16 U	< 0.085 U	< 0.81 U	< 0.40 U	< 0.10 U (< 0.10 U)	< 0.10 U	< 0.11 UJ	< 0.17 U (< 0.17 U)
Volatile Organic Compounds												
1,1,1-Trichloroethane	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
1,1,2,2-Tetrachloroethane	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
1,1,2-trichloro-1,2,2-trifluoroethane	8260B	µg/L	--	NS	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	NS (NS)	NS	NS	< 1.0 U (< 1.0 U)
1,1,2-Trichloroethane	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
1,1-Dichloroethane	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
1,1-Dichloroethene	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
1,2,3-Trichlorobenzene	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 UJ (< 5.0 UJ)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
1,2,4-Trichlorobenzene	8260B	µg/L	--	< 0.50 U	< 1.0 U	**0.5 J**	**0.3 J**	**0.2**	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
1,2-Dibromo-3-chloropropane	8260B	µg/L	--	< 0.50 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)
1,2-Dibromoethane	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
1,2-Dichlorobenzene	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
1,2-Dichloroethane	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
1,2-Dichloropropane	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
1,3-Dichlorobenzene	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
1,4-Dichlorobenzene	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
2-Butanone	8260B	µg/L	--	< 10 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U (< 10 U)	< 10 U	< 10 U	< 5.0 U (< 5.0 U)
4-Methyl-2-Pentanone	8260B	µg/L	--	< 10 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U (< 10 U)	< 10 U	< 10 U	< 5.0 U (< 5.0 U)
Acetone	8260B	µg/L	--	< 10 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	**2.4 J (< 20 U)**	**11 J**	**2.9 U**	< 5.0 U (< 5.0 U)
Benzene	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
Bromodichloromethane	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
Bromoform	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
Bromomethane	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
Carbon Disulfide	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	< 1.0 U	< 1.0 U	< 5.0 U (< 5.0 U)	**4.1 U**	< 5.0 U	< 1.0 U (< 1.0 U)
Carbon Tetrachloride	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
CFC-11	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
CFC-12	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
Chlorobenzene	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	**0.2 J**	**0.1**	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
Chlorodibromomethane	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
Chloroethane	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
Chloroform	8260B	µg/L	--	**0.21 J**	< 1.0 U	**0.2 J**	**0.2 J**	**0.4**	**0.66 J (0.71 J)**	**0.92 J**	**2.6 J**	< 1.0 U (< 1.0 U)
Chloromethane	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
cis-1,2-Dichloroethene	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	**1.8**	**10**	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
cis-1,3-Dichloropropene	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
Cyclohexane	8260B	µg/L	--	NS	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	NS (NS)	NS	NS	< 1.0 U (< 1.0 U)
Dichloromethane	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)

Table 5
2014 Comprehensive Data Table
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland

			Location ID:	MW-3R	MW-3R	MW-3R	MW-3R	MW-3R	MW-4R	MW-4R	MW-4R	MW-4R
			Date:	4/19/2013	2/24/2014	6/25/2014	9/10/2014	10/17/2014	4/16/2010	4/22/2010	6/1/2010	2/24/2014
			Sample ID:	FM13MW3R(041913)	FGGM13-3R(022414)	FGGM13-MW3R(062514)	FGGM13-MW3R(091014)	FGGM13-MW3R(101714)	FM13-MW004R (041610)	FM13MW004R (042210)-H	FM13MW04R (060110)	FGGM13-4R (022414)
Analtye Group	**USEPA Method**	**Units**	**SCL**									
Volatile Organic Compounds (continued)												
Isopropylbenzene	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
m,p-Xylene	8260B	µg/L	--	< 0.50 U	< 2.0 U	< 0.5 U	< 0.5 U	< 0.5 U	NS (NS)	NS	NS	< 2.0 U (< 2.0 U)
Methyl Acetate	8260B	µg/L	--	NS	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	NS (NS)	NS	NS	< 1.0 U (< 1.0 U)
Methyl N-Butyl Ketone	8260B	µg/L	--	< 10 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U (< 10 U)	< 10 U	< 10 U	< 5.0 U (< 5.0 U)
Methylcyclohexane	8260B	µg/L	--	NS	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	NS (NS)	NS	NS	< 1.0 U (< 1.0 U)
Methyl-tert-butylether	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
o-Xylene	8260B	µg/L	--	**0.20 J**	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
Styrene (Monomer)	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
Tetrachloroethene	8260B	µg/L	5	**26**	**0.52 J**	**97**	**72**	**34**	**2.8 J (2.7 J)**	**2.8 J**	**1.6 J**	**1.7 (1.8)**
Toluene	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	**1.3 J (1.2 J)**	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
trans-1,2-Dichloroethene	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
trans-1,3-Dichloropropene	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
Trichloroethene	8260B	µg/L	5	**3.5**	< 1.0 U	**3**	**1.7**	**1.3**	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U	< 1.0 U (< 1.0 U)
Vinyl chloride	8260B	µg/L	--	< 0.50 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 2.0 U (< 2.0 U)	< 2.0 U	< 2.0 U	< 1.0 U (< 1.0 U)
Biogeochemical Parameters												
Ethane	RSK-175	µg/L	--	NS	NS	NS	NS	NS	NS (NS)	NS	NS	NS (NS)
Ethene	RSK-175	µg/L	--	NS	NS	NS	NS	NS	NS (NS)	NS	NS	NS (NS)
Methane	RSK-175	µg/L	--	NS	NS	NS	NS	NS	NS (NS)	NS	NS	NS (NS)
Dissolved Organic Carbon	5310	µg/L	--	NS	NS	NS	NS	NS	NS (NS)	NS	NS	NS (NS)
Total Organic Carbon	5310	µg/L	--	NS	NS	NS	NS	NS	NS (NS)	NS	NS	NS (NS)

Table 5
2014 Comprehensive Data Table
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland

			Location ID:	MW-4R	MW-4R	MW-4R	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5
			Date:	6/26/2014	9/10/2014	10/16/2014	4/15/2010	4/27/2010	6/2/2010	2/24/2014	6/26/2014	9/10/2014
			Sample ID:	FGGM13-MW4R(062614)	FGGM13-MW4R(091014)	FGGM13-MW4R(101614)	FM13-MW005 (041510)	FM13MW005 (042710)	FM13MW05 (060210)	FGGM13-MW-05(022414)	FGGM13-MW5(062614)	FGGM13-MW5(091014)
Analtye Group	**USEPA Method**	**Units**	**SCL**									
Metals												
Aluminum (D)	6010C	µg/L	--	**144 J**	< 400 U (< 400 U)	< 400 U (< 400 U)	**100 J**	NS	< 500 U	NS	< 400 U	< 400 U
Aluminum (T)	6010C	µg/L	--	**1290 J**	**1620 J (1680 J)**	**1010 (977)**	**270 J**	**440 J**	**140 J**	NS	**108 J**	**119 J**
Antimony (D)	6020A	µg/L	--	< 40.0 U	< 2.0 U (< 2.0 U)	< 2.0 U (< 2.0 U)	< 10 U	NS	**3.5 UJ**	NS	< 40.0 U	< 2.0 U
Antimony (T)	6020A	µg/L	--	< 40.0 U	< 2.0 U (< 2.0 U)	< 2.0 U (< 2.0 U)	< 10 U	**44**	**3.5 U**	NS	< 40.0 U	< 2.0 U
Arsenic (D)	6020A	µg/L	--	< 40.0 U	< 4.0 U (< 4.0 U)	< 4.0 U (< 4.0 U)	< 10 U	NS	**3.2 U**	NS	< 40.0 U	< 4.0 U
Arsenic (T)	6020A	µg/L	--	< 40.0 U	< 4.0 U (< 4.0 U)	< 4.0 U (< 4.0 U)	< 10 U	< 10 U	< 10 U	NS	< 40.0 U	< 4.0 U
Barium (D)	6010C	µg/L	--	**43.3**	**47.4 (48.2)**	**46 (45.6)**	**170**	NS	**140**	NS	**113**	**179**
Barium (T)	6010C	µg/L	--	**46.9**	**54.1 (53)**	**50.9 (52.7)**	**170**	**160**	**140**	NS	**113**	**179**
Beryllium (D)	6020A	µg/L	--	< 10.0 U	< 1.0 U (< 1.0 U)	< 1.0 U (< 1.0 U)	< 4.0 U	NS	< 4.0 U	NS	< 10.0 U	< 1.0 U
Beryllium (T)	6020A	µg/L	--	< 10.0 U	< 1.0 U (< 1.0 U)	**0.052 (0.05)**	< 4.0 U	< 4.0 U	< 4.0 U	NS	< 10.0 U	< 1.0 U
Cadmium (D)	6020A	µg/L	--	< 10.0 U	< 1.0 U (< 1.0 U)	< 1.0 U (< 1.0 U)	< 2.0 U	NS	< 2.0 U	NS	< 10.0 U	**0.19 J**
Cadmium (T)	6020A	µg/L	--	< 10.0 U	< 1.0 U (< 1.0 U)	0.17 (< 1.0 U)	< 2.0 U	< 2.0 U	< 2.0 U	NS	< 10.0 U	< 1.0 U
Calcium (D)	6010C	µg/L	--	**24400**	**23700 (26700)**	**20100 (20300)**	**21000**	NS	**19000**	NS	**16300**	**24900**
Calcium (T)	6010C	µg/L	--	**24100**	**26000 (25900)**	**20600 (21100)**	**22000**	**19000**	**19000**	NS	**16200**	**24600**
Chromium (D)	6010C	µg/L	--	< 30.0 U	< 30.0 U (< 30.0 U)	< 30.0 U (< 30.0 U)	< 5.0 U	NS	< 5.0 U	NS	< 30.0 U	< 30.0 U
Chromium (T)	6010C	µg/L	--	**2.8 J**	**2.5 J (2.5 J)**	**2.3 (2.2)**	< 5.0 U	< 5.0 U	< 5.0 U	NS	< 30.0 U	< 30.0 U
Cobalt (D)	6010C	µg/L	--	< 10.0 U	< 10.0 U (< 10.0 U)	< 10.0 U (< 10.0 U)	< 25 U	NS	< 25 U	NS	**4.0 J**	**3.7 J**
Cobalt (T)	6010C	µg/L	--	< 10.0 U	< 10.0 U (< 10.0 U)	**1.5 (1.3)**	< 25 U	< 25 U	< 25 U	NS	**3.8 J**	**3.7 J**
Copper (D)	6010C	µg/L	--	< 20.0 U	< 20.0 U (< 20.0 U)	< 20.0 U (< 20.0 U)	< 5.0 U	NS	< 5.0 U	NS	**3.1 J**	< 20.0 U
Copper (T)	6010C	µg/L	--	< 20.0 U	< 20.0 UJ (3.3 J)	**< 20.0 (3.5)**	< 5.0 U	**2.5 J**	< 5.0 U	NS	< 20.0 U	< 20.0 UJ
Iron (D)	6010C	µg/L	--	**261 J**	< 400 U (< 400 U)	< 400 U (< 400 U)	< 100 U	NS	< 100 U	NS	< 400 U	< 400 U
Iron (T)	6010C	µg/L	--	**2160 J**	**1450 J (1540 J)**	**2010 (2100)**	**140**	**360**	**63 J**	NS	< 400 U	**37.1 J**
Lead (D)	6020A	µg/L	--	< 30.0 U	< 2.0 U (< 2.0 U)	**0.089 J (0.13 J)**	< 10 U	NS	**3.4 J**	NS	< 30.0 U	< 2.0 U
Lead (T)	6020A	µg/L	--	**7.4 J**	**0.52 J (0.48 J)**	**0.69 (0.63)**	< 10 U	< 10 U	< 10 U	NS	< 30.0 U	**0.13 J**
Magnesium (D)	6010C	µg/L	--	**3680**	**4230 (4310)**	**3580 (3640)**	**7800**	NS	**7200**	NS	**5320**	**8670**
Magnesium (T)	6010C	µg/L	--	**3590**	**4380 (4260)**	**3720 (3820)**	**8000**	**7800**	**7000**	NS	**5340**	**8560**
Manganese (D)	6010C	µg/L	--	< 4.3 U	**6.1 J (6.4 J)**	**12.2 (12.2)**	**53**	NS	**42**	NS	**40.5**	**58.5**
Manganese (T)	6010C	µg/L	--	< 6.6 U	**8.7 J (9.7 J)**	**14.4 (15)**	**54**	**55**	**42**	NS	**40.8**	**57.8**
Mercury (D)	7470A	µg/L	--	< 0.20 U	< 0.20 U (< 0.20 U)	< 0.20 U (< 0.20 U)	< 0.10 U	NS	< 0.10 UJ	NS	< 0.20 U	< 0.20 U
Mercury (T)	7470A	µg/L	--	< 0.20 U	< 0.20 U (< 0.20 U)	< 0.20 U (< 0.20 U)	< 0.10 U	**0.062 J**	< 0.10 U	NS	< 0.20 U	< 0.20 U
Nickel (D)	6010C	µg/L	--	< 20.0 U	< 20.0 U (< 20.0 U)	< 20.0 U (< 20.0 U)	< 40 U	NS	< 40 U	NS	**4.8 J**	**6.4 J**
Nickel (T)	6010C	µg/L	--	< 20.0 U	< 20.0 U (< 20.0 U)	< 20.0 U (< 20.0 U)	< 40 U	< 40 U	< 40 U	NS	**4.7 J**	**5.0 J**
Potassium (D)	6010C	µg/L	--	**2170**	**1950 (2000)**	**2100 (2100)**	**3000 J**	NS	**3400 J**	NS	**3250**	**3890**
Potassium (T)	6010C	µg/L	--	**2270**	**2210 (2180)**	**2300 (2440)**	**3800 J**	**3500 J**	**3100 J**	NS	**3160**	**3860**
Selenium (D)	6010C	µg/L	--	< 40.0 U	< 40.0 U (< 40.0 U)	< 40.0 U (< 40.0 U)	< 10 U	NS	< 10 U	NS	< 40.0 U	< 40.0 U
Selenium (T)	6010C	µg/L	--	< 40.0 U	< 40.0 U (< 40.0 U)	< 40.0 U (< 40.0 U)	< 10 U	< 10 U	< 10 U	NS	< 40.0 U	< 40.0 U
Silver (D)	6010C	µg/L	--	< 10.0 U	< 10.0 U (< 10.0 U)	< 10.0 U (< 10.0 U)	< 5.0 U	NS	< 5.0 U	NS	< 10.0 U	< 10.0 U
Silver (T)	6010C	µg/L	--	< 10.0 U	< 10.0 U (< 10.0 U)	< 10.0 U (< 10.0 U)	< 5.0 U	< 5.0 U	< 5.0 U	NS	< 10.0 U	< 10.0 U
Sodium (D)	6010C	µg/L	--	**48600**	**42500 (47300)**	**38700 (35100)**	**97000**	NS	**91000**	NS	**51400**	**103000**
Sodium (T)	6010C	µg/L	--	**48000**	**46600 (46600)**	**36100 (38100)**	**99000**	**86000**	**87000**	NS	**51500**	**105000**
Thallium (D)	6020A	µg/L	--	< 6.2 U	< 1.0 U (< 1.0 U)	< 1.0 U (< 1.0 U)	< 50 U	NS	< 50 U	NS	< 60.0 U	< 1.0 U
Thallium (T)	6020A	µg/L	--	< 60.0 U	< 1.0 U (< 1.0 U)	< 1.0 U (< 1.0 U)	< 50 U	**22 U**	< 50 U	NS	< 5.6 U	< 1.0 U
Vanadium (D)	6010C	µg/L	--	< 10.0 U	< 10.0 U (< 10.0 U)	< 10.0 U (< 10.0 U)	< 50 U	NS	< 50 U	NS	< 10.0 U	< 10.0 U
Vanadium (T)	6010C	µg/L	--	**5.3 J**	**3.3 J (3.9 J)**	**3.9 (4.7)**	< 50 U	< 50 U	< 50 U	NS	< 10.0 U	< 10.0 U
Zinc (D)	6010C	µg/L	--	**3.3 J**	**2.3 J (2.3 J)**	< 6.5 U (< 5.7 U)	< 20 U	NS	< 20 U	NS	**6.6 J**	**5.8 J**
Zinc (T)	6010C	µg/L	--	**5.6 J**	**2.8 J (3.2 J)**	**6.9 (6.9)**	< 20 U	< 20 U	< 20 U	NS	**6.1 J**	**4.5 J**

Table 5
2014 Comprehensive Data Table
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland

			Location ID:	MW-4R	MW-4R	MW-4R	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5
			Date:	6/26/2014	9/10/2014	10/16/2014	4/15/2010	4/27/2010	6/2/2010	2/24/2014	6/26/2014	9/10/2014
			Sample ID:	FGGM13-MW4R(062614)	FGGM13-MW4R(091014)	FGGM13-MW4R(101614)	FM13-MW005 (041510)	FM13MW005 (042710)	FM13MW05 (060210)	FGGM13-MW-05(022414)	FGGM13-MW5(062614)	FGGM13-MW5(091014)
Analtye Group	**USEPA Method**	**Units**	**SCL**									
Pesticides												
4,4-DDD	8081B	µg/L	--	< 0.016 UJ	< 0.016 U (< 0.016 U)	< 0.017 U (< 0.016 U)	< 0.026 U	< 0.030 UJ	< 0.027 U	< 0.16 U	< 0.018 U	< 0.017 U
4,4-DDE	8081B	µg/L	--	< 0.016 UJ	< 0.016 U (< 0.016 U)	< 0.017 U (< 0.016 U)	< 0.026 U	< 0.030 UJ	< 0.027 U	< 0.16 U	< 0.018 U	< 0.017 U
4,4-DDT	8081B	µg/L	--	**0.010 J**	< 0.016 U (< 0.016 U)	**0.0043 (0.0078)**	< 0.026 U	< 0.030 UJ	< 0.027 U	< 0.16 U	< 0.018 U	< 0.017 U
Aldrin	8081B	µg/L	--	**0.0064 J**	< 0.0081 UJ (0.0037 J)	**0.0032 (0.0034)**	< 0.026 U	< 0.030 UJ	< 0.027 U	< 0.16 U	< 0.0089 U	< 0.0083 U
Alpha-BHC	8081B	µg/L	--	**0.011 J**	**0.0041 J (0.0042 J)**	< 0.0083 U (< 0.0082 U)	< 0.026 U	< 0.030 UJ	< 0.027 U	< 0.16 U	< 0.0089 U	< 0.0083 U
Alpha-chlordane	8081B	µg/L	2	**0.38 J**	**0.29 (0.29)**	**0.19 (0.19)**	< 0.026 U	< 0.030 UJ	**0.0073 J**	< 0.16 U	**0.0095**	**0.0045 J**
Beta-BHC	8081B	µg/L	--	< 0.0081 UJ	< 0.0081 UJ (0.0040 J)	**0.0038 (0.0042)**	< 0.026 U	< 0.030 UJ	< 0.027 U	< 0.16 U	< 0.0089 U	< 0.0083 U
Camphechlor	8081B	µg/L	--	< 0.81 UJ	< 0.81 U (< 0.80 U)	< 0.83 U (< 0.82 U)	< 0.26 U	< 0.30 UJ	< 0.27 U	< 0.49 U	< 0.89 U	< 0.83 U
Delta-BHC	8081B	µg/L	--	**0.0067 J**	< 0.0081 U (< 0.0080 U)	< 0.0083 U (< 0.0082 U)	< 0.026 U	< 0.030 UJ	< 0.027 U	< 0.16 U	< 0.0089 U	< 0.0083 U
Dieldrin	8081B	µg/L	--	**0.17 J**	**0.13 (0.12)**	**0.09 (0.094)**	< 0.026 U	< 0.030 UJ	< 0.027 U	< 0.16 U	< 0.018 U	< 0.017 U
Endosulfan I	8081B	µg/L	--	**0.046 J**	**0.04 (0.028)**	**0.025 (0.025)**	< 0.026 U	< 0.030 UJ	< 0.027 U	< 0.16 U	< 0.0089 U	< 0.0083 U
Endosulfan II	8081B	µg/L	--	< 0.016 UJ	< 0.016 U (< 0.016 U)	< 0.017 U (< 0.016 U)	< 0.026 U	< 0.030 UJ	< 0.027 U	< 0.16 U	< 0.018 U	< 0.017 U
Endosulfan sulfate	8081B	µg/L	--	**0.017 J**	**0.013 J (0.013 J)**	**0.0091 (0.0094)**	< 0.026 U	< 0.030 UJ	< 0.027 U	< 0.16 U	< 0.018 U	< 0.017 U
Endrin	8081B	µg/L	--	< 0.016 UJ	< 0.016 U (< 0.016 U)	< 0.017 U (< 0.016 U)	< 0.026 U	< 0.030 UJ	< 0.027 U	< 0.16 U	< 0.018 U	< 0.017 U
Endrin aldehyde	8081B	µg/L	--	< 0.081 UJ	< 0.081 U (< 0.080 U)	< 0.083 U (< 0.082 U)	< 0.026 U	< 0.030 UJ	< 0.027 U	< 0.16 U	< 0.089 U	< 0.083 U
Endrin ketone	8081B	µg/L	--	**0.029 J**	**0.015 J (0.015 J)**	**0.011 (0.012)**	< 0.026 U	< 0.030 UJ	< 0.027 U	< 0.16 U	< 0.018 U	< 0.017 U
Gamma-BHC	8081B	µg/L	0.2	**0.052 J**	**0.12 (0.12)**	**0.033 (0.032)**	< 0.026 U	< 0.030 UJ	< 0.027 U	< 0.16 U	< 0.0089 U	**0.0035 J**
gamma-chlordane	8081B	µg/L	2	**0.34 J**	**0.23 (0.24)**	**0.17 (0.17)**	< 0.026 U	< 0.030 UJ	**0.0085 JP**	< 0.16 U	**0.0089 J**	< 0.0083 U
Heptachlor	8081B	µg/L	0.4	< 0.0081 UJ	< 0.0081 U (< 0.0080 U)	< 0.0083 U (< 0.0082 U)	< 0.026 U	< 0.030 UJ	< 0.027 U	< 0.16 U	< 0.0089 U	< 0.0083 U
Heptachlor epoxide	8081B	µg/L	0.2	< 0.046 UJ	< 0.0081 UJ (0.084 J)	< 0.022 U (< 0.022 U)	< 0.026 U	< 0.030 UJ	< 0.027 U	< 0.16 U	< 0.0089 U	< 0.0083 U
Methoxychlor	8081B	µg/L	--	< 0.081 UJ	< 0.081 U (< 0.080 U)	< 0.083 U (< 0.082 U)	< 0.10 U	< 0.12 UJ	< 0.11 U	< 0.16 U	< 0.089 U	< 0.083 U
Volatile Organic Compounds												
1,1,1-Trichloroethane	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
1,1,2-trichloro-1,2,2-trifluoroethane	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	NS	NS	NS	< 1.0 U	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
1,1-Dichloroethane	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
1,1-Dichloroethene	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 UJ	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
1,2,4-Trichlorobenzene	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
1,2-Dibromo-3-chloropropane	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U
1,2-Dibromoethane	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
1,2-Dichloroethane	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
1,2-Dichloropropane	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
2-Butanone	8260B	µg/L	--	< 5.0 U	< 5.0 U (< 5.0 U)	< 5.0 U (< 5.0 U)	< 10 U	< 10 U	< 10 U	< 5.0 U	< 5.0 U	< 5.0 U
4-Methyl-2-Pentanone	8260B	µg/L	--	< 5.0 U	< 5.0 U (< 5.0 U)	< 5.0 U (< 5.0 U)	< 10 U	< 10 U	< 10 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	8260B	µg/L	--	< 5.0 U	< 5.0 U (< 5.0 U)	< 5.0 U (< 5.0 U)	**2.0 J**	**13 J**	< 20 U	< 5.0 U	< 5.0 U	< 5.0 U
Benzene	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Bromodichloromethane	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Bromoform	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Bromomethane	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Carbon Disulfide	8260B	µg/L	--	< 0.5 U	< 1.0 U (< 1.0 U)	< 1.0 U (< 1.0 U)	< 5.0 U	**4.0 U**	< 5.0 U	< 1.0 U	< 0.5 U	< 1.0 U
Carbon Tetrachloride	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
CFC-11	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	**0.1 J**	< 0.5 U
CFC-12	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Chlorobenzene	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Chlorodibromomethane	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Chloroethane	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Chloroform	8260B	µg/L	--	**1.3**	**0.9 (0.8)**	**1.2 (1.2)**	**1.1 J**	**1.0 J**	**0.89 J**	< 1.0 U	**1.1**	**0.8**
Chloromethane	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Cyclohexane	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	NS	NS	NS	< 1.0 U	< 0.5 U	< 0.5 U
Dichloromethane	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U

Table 5
2014 Comprehensive Data Table
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland

			Location ID:	**MW-4R**	**MW-4R**	**MW-4R**	**MW-5**	**MW-5**	**MW-5**	**MW-5**	**MW-5**	**MW-5**
			Date:	6/26/2014	9/10/2014	10/16/2014	4/15/2010	4/27/2010	6/2/2010	2/24/2014	6/26/2014	9/10/2014
			Sample ID:	FGGM13-MW4R(062614)	FGGM13-MW4R(091014)	FGGM13-MW4R(101614)	FM13-MW005 (041510)	FM13MW005 (042710)	FM13MW05 (060210)	FGGM13-MW-05(022414)	FGGM13-MW5(062614)	FGGM13-MW5(091014)
Analtye Group	**USEPA Method**	**Units**	**SCL**									
Volatile Organic Compounds (continued)												
Isopropylbenzene	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
m,p-Xylene	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	NS	NS	NS	< 2.0 U	< 0.5 U	< 0.5 U
Methyl Acetate	8260B	µg/L	--	< 1.0 U	< 1.0 U (< 1.0 U)	< 1.0 U (< 1.0 U)	NS	NS	NS	< 1.0 U	< 1.0 U	< 1.0 U
Methyl N-Butyl Ketone	8260B	µg/L	--	< 5.0 U	< 5.0 U (< 5.0 U)	< 5.0 U (< 5.0 U)	< 10 U	< 10 U	< 10 U	< 5.0 U	< 5.0 U	< 5.0 U
Methylcyclohexane	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	NS	NS	NS	< 1.0 U	< 0.5 U	< 0.5 U
Methyl-tert-butylether	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	**0.52 J**	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
o-Xylene	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Styrene (Monomer)	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Tetrachloroethene	8260B	µg/L	5	**6.4**	**2.2 (2.2)**	**1 (0.9)**	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	**0.1 J**	< 0.5 U
Toluene	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	**0.74 J**	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Trichloroethene	8260B	µg/L	5	**0.3 J**	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Vinyl chloride	8260B	µg/L	--	< 0.5 U	< 0.5 U (< 0.5 U)	< 0.5 U (< 0.5 U)	< 2.0 U	< 2.0 U	< 2.0 U	< 1.0 U	< 0.5 U	< 0.5 U
Biogeochemical Parameters												
Ethane	RSK-175	µg/L	--	NS	NS (NS)	NS (NS)	NS	NS	NS	NS	NS	NS
Ethene	RSK-175	µg/L	--	NS	NS (NS)	NS (NS)	NS	NS	NS	NS	NS	NS
Methane	RSK-175	µg/L	--	NS	NS (NS)	NS (NS)	NS	NS	NS	NS	NS	NS
Dissolved Organic Carbon	5310	µg/L	--	NS	NS (NS)	NS (NS)	NS	NS	NS	NS	NS	NS
Total Organic Carbon	5310	µg/L	--	NS	NS (NS)	NS (NS)	NS	NS	NS	NS	NS	NS

Table 5
2014 Comprehensive Data Table
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland

			Location ID:	MW-5	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-7
			Date:	10/16/2014	4/15/2010	4/22/2010	6/1/2010	2/25/2014	6/26/2014	9/9/2014	10/16/2014	4/14/2010
			Sample ID:	FGGM13-MW5(101614)	FM13-MW006 (041510)	FM13MW006 (042210)-H	FM13MW06 (060110)	FGGM13-MW6	FGGM13-MW6(062614)	FGGM13-MW6(090914)	FGGM13-MW6(101614)	FM13-MW007 (041410)
Analtye Group	**USEPA Method**	**Units**	**SCL**									
Metals												
Aluminum (D)	6010C	µg/L	--	**73.4 J**	**84 J**	NS	< 500 U	NS	< 400 U	**70.3 J**	< 400 U	**70 J**
Aluminum (T)	6010C	µg/L	--	**635**	**1300**	**850 B**	**350 J**	NS	**793 J**	**1330 J**	**456**	**890**
Antimony (D)	6020A	µg/L	--	< 2.0 U	< 10 U	NS	< 10 UJ	NS	< 40.0 U	< 2.0 U	< 2.0 U	< 10 U
Antimony (T)	6020A	µg/L	--	**0.43**	< 10 U	**7.0 U**	< 10 U	NS	< 40.0 U	< 2.0 U	< 2.0 U	< 10 U
Arsenic (D)	6020A	µg/L	--	< 4.0 U	< 10 U	NS	**6.3 U**	NS	< 40.0 U	< 4.0 U	< 4.0 U	< 10 U
Arsenic (T)	6020A	µg/L	--	< 4.0	< 10 U	**4.3 J**	**4.8 U**	NS	< 40.0 U	**0.96 J**	< 4.0 U	< 10 U
Barium (D)	6010C	µg/L	--	**189**	**78**	NS	**79**	NS	**83.5**	**82.8**	**88.5**	**55**
Barium (T)	6010C	µg/L	--	**200**	**83**	**93**	**80**	NS	**86.9**	**87.8**	**92.2**	**56**
Beryllium (D)	6020A	µg/L	--	**0.049 J**	< 4.0 U	NS	< 4.0 U	NS	< 10.0 U	< 1.0 U	< 1.0 U	< 4.0 U
Beryllium (T)	6020A	µg/L	--	< 1.0	< 4.0 U	< 4.0 U	< 4.0 U	NS	< 10.0 U	< 1.0 U	**0.052**	< 4.0 U
Cadmium (D)	6020A	µg/L	--	**0.22 J**	< 2.0 U	NS	< 2.0 U	NS	< 10.0 U	< 1.0 U	< 1.0 U	< 2.0 U
Cadmium (T)	6020A	µg/L	--	**0.21**	< 2.0 U	< 2.0 U	< 2.0 U	NS	< 10.0 U	< 1.0 U	< 1.0 U	< 2.0 U
Calcium (D)	6010C	µg/L	--	**27300**	**19000**	NS	**16000**	NS	**17400**	**14600**	**14800**	**13000**
Calcium (T)	6010C	µg/L	--	**27500**	**19000**	**18000**	**16000**	NS	**17700**	**14800**	**15100**	**12000**
Chromium (D)	6010C	µg/L	--	< 30.0 U	< 5.0 U	NS	< 5.0 U	NS	< 30.0 U	< 30.0 U	< 30.0 U	< 5.0 U
Chromium (T)	6010C	µg/L	--	**1.6**	< 5.0 U	< 5.0 U	< 5.0 U	NS	**2.2 J**	**2.2 J**	< 30.0 U	< 5.0 U
Cobalt (D)	6010C	µg/L	--	**3.6 J**	< 25 U	NS	< 25 U	NS	**2.2 J**	**2.5 J**	**2.0 J**	< 25 U
Cobalt (T)	6010C	µg/L	--	**4.2**	< 25 U	< 25 U	< 25 U	NS	**2.3 J**	**2.4 J**	**2.8**	< 25 U
Copper (D)	6010C	µg/L	--	< 20.0 U	< 5.0 U	NS	< 5.0 U	NS	< 20.0 U	< 20.0 U	< 20.0 U	**1.6 J**
Copper (T)	6010C	µg/L	--	< 20.0	**4.9 J**	**8.7**	< 5.0 U	NS	**3.0 J**	**4.8 J**	**3.6**	**2.4 J**
Iron (D)	6010C	µg/L	--	< 400 U	< 100 U	NS	< 100 U	NS	< 400 U	< 400 U	< 400 U	< 100 U
Iron (T)	6010C	µg/L	--	**706**	**1900**	**2800**	**420**	NS	**749 J**	**1050 J**	**946**	**1800**
Lead (D)	6020A	µg/L	--	**0.20 J**	< 10 U	NS	**3.7 J**	NS	< 30.0 U	**0.096 J**	**0.31 J**	< 10 U
Lead (T)	6020A	µg/L	--	**0.58**	< 10 U	**8.0 J**	< 10 U	NS	< 30.0 U	**0.74 J**	**0.42**	**3.2 J**
Magnesium (D)	6010C	µg/L	--	**9520**	**5200**	NS	**5200**	NS	**4740**	**4670**	**4870**	**3600 J**
Magnesium (T)	6010C	µg/L	--	**9600**	**5200**	**5300**	**5200**	NS	**4780**	**4750**	**5020**	**3500 J**
Manganese (D)	6010C	µg/L	--	**56.3**	**20**	NS	**21**	NS	**17.7**	**18.5**	**20.8**	**22**
Manganese (T)	6010C	µg/L	--	**59.7**	**23**	**25**	**22**	NS	**18.5**	**19.5**	**21.8**	**22**
Mercury (D)	7470A	µg/L	--	< 0.20 U	< 0.10 U	NS	**0.070 J**	NS	< 0.20 U	< 0.20 U	< 0.20 U	< 0.10 U
Mercury (T)	7470A	µg/L	--	< 0.20	< 0.10 U	< 0.10 U	< 0.10 U	NS	< 0.20 U	< 0.20 U	< 0.20 U	< 0.10 U
Nickel (D)	6010C	µg/L	--	**5.5 J**	< 40 U	NS	< 40 U	NS	**2.6 J**	**3.2 J**	**3.6 J**	< 40 U
Nickel (T)	6010C	µg/L	--	**6.6**	< 40 U	< 40 U	< 40 U	NS	**2.4 J**	**2.4 J**	**2.8**	< 40 U
Potassium (D)	6010C	µg/L	--	**4140**	**2700 J**	NS	**2700 J**	NS	**2710**	**2720**	**2770**	**1900 J**
Potassium (T)	6010C	µg/L	--	**4300**	**3200 J**	**3400 J**	**3200 J**	NS	**2880**	**2950**	**2970**	**1900 J**
Selenium (D)	6010C	µg/L	--	< 40.0 U	< 10 U	NS	< 10 U	NS	< 40.0 U	< 40.0 U	< 40.0 U	< 10 U
Selenium (T)	6010C	µg/L	--	< 40.0	< 10 U	< 10 U	< 10 U	NS	< 40.0 U	< 40.0 U	< 40.0 U	< 10 U
Silver (D)	6010C	µg/L	--	< 10.0 U	**2.0 J**	NS	< 5.0 U	NS	< 10.0 U	< 10.0 U	< 10.0 U	< 5.0 U
Silver (T)	6010C	µg/L	--	< 10.0	< 5.0 U	< 5.0 U	< 5.0 U	NS	< 10.0 U	< 10.0 U	< 10.0 U	< 5.0 U
Sodium (D)	6010C	µg/L	--	**126000**	**67000**	NS	**58000**	NS	**62600**	**41000**	**39600**	**44000**
Sodium (T)	6010C	µg/L	--	**124000**	**66000**	**67000**	**58000**	NS	**61700**	**42300**	**37600**	**43000**
Thallium (D)	6020A	µg/L	--	< 1.0 U	< 50 U	NS	< 50 U	NS	< 60.0 U	< 1.0 U	< 1.0 U	< 50 U
Thallium (T)	6020A	µg/L	--	< 1.0	< 50 U	**16 U**	< 50 U	NS	< 60.0 U	< 1.0 U	< 1.0 U	< 50 U
Vanadium (D)	6010C	µg/L	--	< 10.0 U	< 50 U	NS	< 50 U	NS	< 10.0 U	< 10.0 U	< 10.0 U	< 50 U
Vanadium (T)	6010C	µg/L	--	**2.3**	< 50 U	< 50 U	< 50 U	NS	**2.2 J**	**3.0 J**	**2.1**	< 50 U
Zinc (D)	6010C	µg/L	--	< 10.7 U	< 20 U	NS	< 20 U	NS	**5.0 J**	< 5.4 U	< 13.1 U	**13 J**
Zinc (T)	6010C	µg/L	--	**11.4**	**6.7 J**	**7.7 J**	< 20 U	NS	**5.0 J**	**4.6 J**	**8.4**	**12 J**

Table 5
2014 Comprehensive Data Table
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland

			Location ID:	MW-5	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-7
			Date:	10/16/2014	4/15/2010	4/22/2010	6/1/2010	2/25/2014	6/26/2014	9/9/2014	10/16/2014	4/14/2010
			Sample ID:	FGGM13-MW5(101614)	FM13-MW006 (041510)	FM13MW006 (042210)-H	FM13MW06 (060110)	FGGM13-MW6	FGGM13-MW6(062614)	FGGM13-MW6(090914)	FGGM13-MW6(101614)	FM13-MW007 (041410)
Analtye Group	**USEPA Method**	**Units**	**SCL**									
Pesticides												
4,4-DDD	8081B	µg/L	--	< 0.016	< 0.025 U	< 0.026 U	< 0.026 U	< 0.16 U	< 0.016 U	< 0.016 U	< 0.017 U	< 0.026 U
4,4-DDE	8081B	µg/L	--	< 0.016	< 0.025 U	< 0.026 U	< 0.026 U	< 0.16 U	< 0.016 U	< 0.016 U	< 0.017 U	< 0.026 U
4,4-DDT	8081B	µg/L	--	< 0.016	< 0.025 U	< 0.026 U	< 0.026 U	< 0.16 U	< 0.016 U	< 0.016 U	< 0.017 U	< 0.026 U
Aldrin	8081B	µg/L	--	< 0.0082	< 0.025 U	< 0.026 U	< 0.026 U	< 0.16 U	< 0.0081 U	< 0.0081 U	< 0.0083 U	< 0.026 U
Alpha-BHC	8081B	µg/L	--	< 0.0082	< 0.025 U	**0.0039 J**	< 0.026 U	< 0.16 U	< 0.0081 U	< 0.0081 U	< 0.0083 U	< 0.026 U
Alpha-chlordane	8081B	µg/L	2	< 0.0082	< 0.025 U	< 0.026 U	< 0.026 U	< 0.16 U	**0.016**	**0.0035 J**	< 0.0083 U	**0.014 J**
Beta-BHC	8081B	µg/L	--	< 0.0082	< 0.025 U	< 0.026 U	< 0.026 U	< 0.16 U	< 0.0081 U	< 0.0081 U	< 0.0083 U	< 0.026 U
Camphechlor	8081B	µg/L	--	< 0.82	< 0.25 U	< 0.26 U	< 0.26 U	< 0.49 U	< 0.81 U	< 0.81 U	< 0.83 U	< 0.26 U
Delta-BHC	8081B	µg/L	--	< 0.0082	< 0.025 U	< 0.026 U	< 0.026 U	< 0.16 U	< 0.0081 U	< 0.0081 U	< 0.0083 U	< 0.026 U
Dieldrin	8081B	µg/L	--	< 0.016	< 0.025 U	< 0.026 U	< 0.026 U	< 0.16 U	< 0.016 U	< 0.016 U	< 0.017 U	< 0.026 U
Endosulfan I	8081B	µg/L	--	< 0.0082	< 0.025 U	< 0.026 U	< 0.026 U	< 0.16 U	< 0.0081 U	< 0.0081 U	< 0.0083 U	< 0.026 U
Endosulfan II	8081B	µg/L	--	< 0.016	< 0.025 U	< 0.026 U	< 0.026 U	< 0.16 U	< 0.016 U	< 0.016 U	< 0.017 U	< 0.026 U
Endosulfan sulfate	8081B	µg/L	--	< 0.016	< 0.025 U	< 0.026 U	< 0.026 U	< 0.16 U	< 0.016 U	< 0.016 U	< 0.017 U	< 0.026 U
Endrin	8081B	µg/L	--	< 0.016	< 0.025 U	< 0.026 U	< 0.026 U	< 0.16 U	< 0.016 U	< 0.016 U	< 0.017 U	< 0.026 U
Endrin aldehyde	8081B	µg/L	--	< 0.082	< 0.025 U	< 0.026 U	< 0.026 U	< 0.16 U	< 0.081 U	< 0.081 U	< 0.083 U	< 0.026 U
Endrin ketone	8081B	µg/L	--	< 0.016	< 0.025 U	< 0.026 U	< 0.026 U	< 0.16 U	< 0.016 U	< 0.016 U	< 0.017 U	< 0.026 U
Gamma-BHC	8081B	µg/L	0.2	< 0.0082	< 0.025 U	< 0.026 U	< 0.026 U	< 0.16 U	< 0.0081 U	< 0.0081 U	< 0.0083 U	< 0.026 U
gamma-chlordane	8081B	µg/L	2	< 0.0082	< 0.025 U	**0.25 P**	< 0.026 U	< 0.16 U	**0.013**	< 0.0081 U	< 0.0083 U	**0.016 JP**
Heptachlor	8081B	µg/L	0.4	< 0.0082	< 0.025 U	< 0.026 U	< 0.026 U	< 0.16 U	< 0.0081 U	< 0.0081 U	< 0.0083 U	< 0.026 U
Heptachlor epoxide	8081B	µg/L	0.2	< 0.0082	< 0.025 U	< 0.026 U	< 0.026 U	< 0.16 U	< 0.0081 U	< 0.0081 U	< 0.0083 U	< 0.026 U
Methoxychlor	8081B	µg/L	--	< 0.082	< 0.10 U	< 0.10 U	< 0.11 U	< 0.16 U	< 0.081 U	< 0.081 U	< 0.083 U	< 0.10 U
Volatile Organic Compounds												
1,1,1-Trichloroethane	8260B	µg/L	--	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U
1,1,2,2-Tetrachloroethane	8260B	µg/L	--	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	**1.3 J**
1,1,2-trichloro-1,2,2-trifluoroethane	8260B	µg/L	--	< 0.5	NS	NS	NS	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	NS
1,1,2-Trichloroethane	8260B	µg/L	--	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U
1,1-Dichloroethane	8260B	µg/L	--	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U
1,1-Dichloroethene	8260B	µg/L	--	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U
1,2,3-Trichlorobenzene	8260B	µg/L	--	< 0.5	< 5.0 UJ	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 UJ
1,2,4-Trichlorobenzene	8260B	µg/L	--	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U
1,2-Dibromo-3-chloropropane	8260B	µg/L	--	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U
1,2-Dibromoethane	8260B	µg/L	--	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U
1,2-Dichlorobenzene	8260B	µg/L	--	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U
1,2-Dichloroethane	8260B	µg/L	--	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U
1,2-Dichloropropane	8260B	µg/L	--	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U
1,3-Dichlorobenzene	8260B	µg/L	--	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U
1,4-Dichlorobenzene	8260B	µg/L	--	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U
2-Butanone	8260B	µg/L	--	< 5.0	< 10 U	< 10 U	< 10 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U
4-Methyl-2-Pentanone	8260B	µg/L	--	< 5.0	< 10 U	< 10 U	< 10 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U
Acetone	8260B	µg/L	--	< 5.0	**1.6 J**	**11 J**	< 20 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	**3.0 J**
Benzene	8260B	µg/L	--	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U
Bromodichloromethane	8260B	µg/L	--	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U
Bromoform	8260B	µg/L	--	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U
Bromomethane	8260B	µg/L	--	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U
Carbon Disulfide	8260B	µg/L	--	< 1.0	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 1.0 U	< 1.0 U	< 5.0 U
Carbon Tetrachloride	8260B	µg/L	--	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U
CFC-11	8260B	µg/L	--	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	**0.1**	< 5.0 U
CFC-12	8260B	µg/L	--	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U
Chlorobenzene	8260B	µg/L	--	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U
Chlorodibromomethane	8260B	µg/L	--	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U
Chloroethane	8260B	µg/L	--	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U
Chloroform	8260B	µg/L	--	**0.9**	**0.61 J**	**0.63 J**	**0.66 J**	< 1.0 U	**0.7**	**0.7**	**0.8**	**1.4 J**
Chloromethane	8260B	µg/L	--	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U
cis-1,2-Dichloroethene	8260B	µg/L	--	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U
cis-1,3-Dichloropropene	8260B	µg/L	--	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U
Cyclohexane	8260B	µg/L	--	< 0.5	NS	NS	NS	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	NS
Dichloromethane	8260B	µg/L	--	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U

Table 5
2014 Comprehensive Data Table
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland

			Location ID:	MW-5	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-7
			Date:	10/16/2014	4/15/2010	4/22/2010	6/1/2010	2/25/2014	6/26/2014	9/9/2014	10/16/2014	4/14/2010
			Sample ID:	FGGM13-MW5(101614)	FM13-MW006 (041510)	FM13MW006 (042210)-H	FM13MW06 (060110)	FGGM13-MW6	FGGM13-MW6(062614)	FGGM13-MW6(090914)	FGGM13-MW6(101614)	FM13-MW007 (041410)
Analtye Group	**USEPA Method**	**Units**	**SCL**									
Volatile Organic Compounds (continued)												
Isopropylbenzene	8260B	µg/L	--	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U
m,p-Xylene	8260B	µg/L	--	< 0.5	NS	NS	NS	< 2.0 U	< 0.5 U	< 0.5 U	< 0.5 U	NS
Methyl Acetate	8260B	µg/L	--	< 1.0	NS	NS	NS	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	NS
Methyl N-Butyl Ketone	8260B	µg/L	--	< 5.0	< 10 U	< 10 U	< 10 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U
Methylcyclohexane	8260B	µg/L	--	< 0.5	NS	NS	NS	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	NS
Methyl-tert-butylether	8260B	µg/L	--	< 0.5	< 5.0 U	**0.47 J**	**0.47 J**	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U
o-Xylene	8260B	µg/L	--	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U
Styrene (Monomer)	8260B	µg/L	--	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U
Tetrachloroethene	8260B	µg/L	5	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	**0.2 J**	< 0.5 U	**0.1**	< 5.0 U
Toluene	8260B	µg/L	--	< 0.5	**0.44 J**	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	**0.56 J**
trans-1,2-Dichloroethene	8260B	µg/L	--	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U
trans-1,3-Dichloropropene	8260B	µg/L	--	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U
Trichloroethene	8260B	µg/L	5	< 0.5	< 5.0 U	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U
Vinyl chloride	8260B	µg/L	--	< 0.5	< 2.0 U	< 2.0 U	< 2.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 2.0 U
Biogeochemical Parameters												
Ethane	RSK-175	µg/L	--	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethene	RSK-175	µg/L	--	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methane	RSK-175	µg/L	--	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Organic Carbon	5310	µg/L	--	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Organic Carbon	5310	µg/L	--	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 5
2014 Comprehensive Data Table
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland

			Location ID:	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-8	MW-8	MW-8
			Date:	4/22/2010	6/1/2010	2/25/2014	6/26/2014	9/9/2014	10/16/2014	4/14/2010	4/22/2010	6/1/2010
			Sample ID:	FM13MW007 (042210)-H	FM13MW07 (060110)	FGGM13-MW7	FGGM13-MW7(062614)	FGGM13-MW7(090914)	FGGM13-MW7(101614)	FM13-MW008 (041410)	FM13MW008 (042210)-H	FM13MW08 (060110)
Analtye Group	**USEPA Method**	**Units**	**SCL**									
Metals												
Aluminum (D)	6010C	µg/L	--	NS	< 500 U	NS	< 400 U	< 400 U	< 400 U	**77 J**	NS	< 500 U
Aluminum (T)	6010C	µg/L	--	**2000 B**	**670**	NS	**716 J**	**1170 J**	**5200**	**1000**	**120 U**	**580**
Antimony (D)	6020A	µg/L	--	NS	**5.2 UJ**	NS	< 40.0 U	< 2.0 U	< 2.0 U	< 10 U	NS	< 10 UJ
Antimony (T)	6020A	µg/L	--	**5.1 U**	< 10 U	NS	< 40.0 U	< 2.0 U	< 2.0 U	< 10 U	**3.3 U**	< 10 U
Arsenic (D)	6020A	µg/L	--	NS	**8.2 U**	NS	< 40.0 U	< 4.0 U	< 4.0 U	< 10 U	NS	**8.4 U**
Arsenic (T)	6020A	µg/L	--	**8.0 J**	**5.2 U**	NS	< 40.0 U	< 4.0 U	**4.5**	< 10 U	< 10 U	**8.4 U**
Barium (D)	6010C	µg/L	--	NS	**46**	NS	**41.1**	**38.8**	**20.8**	**24 J**	NS	**29**
Barium (T)	6010C	µg/L	--	**77**	**48**	NS	**43.5**	**42.6**	**49.9**	**28**	**27**	**33**
Beryllium (D)	6020A	µg/L	--	NS	< 4.0 U	NS	< 10.0 U	< 1.0 U	**0.048 J**	< 4.0 U	NS	< 4.0 U
Beryllium (T)	6020A	µg/L	--	< 4.0 U	< 4.0 U	NS	< 10.0 U	**0.061 J**	**0.24**	< 4.0 U	< 4.0 U	< 4.0 U
Cadmium (D)	6020A	µg/L	--	NS	< 2.0 U	NS	< 10.0 U	< 1.0 U	< 1.0 U	< 2.0 U	NS	< 2.0 U
Cadmium (T)	6020A	µg/L	--	< 2.0 U	< 2.0 U	NS	< 10.0 U	< 1.0 U	< 1.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Calcium (D)	6010C	µg/L	--	NS	**11000**	NS	**9990**	**8940**	**8940**	**5300**	NS	**5700**
Calcium (T)	6010C	µg/L	--	**13000**	**11000**	NS	**10200**	**8980**	**9240**	**5100**	**5500**	**5800**
Chromium (D)	6010C	µg/L	--	NS	< 5.0 U	NS	< 30.0 U	< 30.0 U	< 30.0 U	< 5.0 U	NS	< 5.0 U
Chromium (T)	6010C	µg/L	--	**5.3**	< 5.0 U	NS	< 30.0 U	**2.3 J**	**20.2**	< 5.0 U	< 5.0 U	< 5.0 U
Cobalt (D)	6010C	µg/L	--	NS	< 25 U	NS	**2.5 J**	**3.2 J**	**3.3 J**	< 25 U	NS	< 25 U
Cobalt (T)	6010C	µg/L	--	**8.1 J**	< 25 U	NS	**3.2 J**	**3.6 J**	**5.1**	< 25 U	< 25 U	< 25 U
Copper (D)	6010C	µg/L	--	NS	< 5.0 U	NS	< 20.0 U	< 20.0 U	< 20.0 U	< 5.0 U	NS	< 5.0 U
Copper (T)	6010C	µg/L	--	**14**	< 5.0 U	NS	< 20.0 U	**3.7 J**	**29.1**	**2.3 J**	< 5.0 U	< 5.0 U
Iron (D)	6010C	µg/L	--	NS	< 100 U	NS	< 400 U	< 400 U	< 400 U	< 100 U	NS	< 100 U
Iron (T)	6010C	µg/L	--	**9800**	**1400**	NS	**1070 J**	**1470 J**	**22600**	**2200**	**270**	**670**
Lead (D)	6020A	µg/L	--	NS	< 10 U	NS	< 30.0 U	**0.14 J**	**0.095 J**	< 10 U	NS	< 10 U
Lead (T)	6020A	µg/L	--	**8.7 J**	< 10 U	NS	< 30.0 U	**0.61 J**	**5.5**	< 10 U	**4.9 J**	< 10 U
Magnesium (D)	6010C	µg/L	--	NS	**3200 J**	NS	**2610**	**2450**	**2590**	< 5000 U	NS	< 5000 U
Magnesium (T)	6010C	µg/L	--	**4000 J**	**3200 J**	NS	**2690**	**2500**	**2850**	< 5000 U	< 5000 U	< 5000 U
Manganese (D)	6010C	µg/L	--	NS	**16**	NS	**15.3**	**16**	**17.7**	**14 J**	NS	**10 J**
Manganese (T)	6010C	µg/L	--	**38**	**16**	NS	**16**	**16.6**	**30.4**	**12 J**	**9.8 J**	**11 J**
Mercury (D)	7470A	µg/L	--	NS	< 0.10 UJ	NS	< 0.20 U	< 0.20 U	< 0.20 U	< 0.10 U	NS	**0.12 J**
Mercury (T)	7470A	µg/L	--	< 0.10 U	**0.080 J**	NS	< 0.20 U	< 0.20 U	< 0.20 U	< 0.10 U	**0.12**	**0.055 J**
Nickel (D)	6010C	µg/L	--	NS	< 40 U	NS	**2.6 J**	**4.5 J**	**4.2 J**	< 40 U	NS	< 40 U
Nickel (T)	6010C	µg/L	--	< 40 U	< 40 U	NS	**3.5 J**	**3.9 J**	**6.1**	< 40 U	< 40 U	< 40 U
Potassium (D)	6010C	µg/L	--	NS	**1800 J**	NS	**1880**	**1860**	**1880**	< 5000 U	NS	< 5000 U
Potassium (T)	6010C	µg/L	--	**3300 J**	**2100 J**	NS	**2000**	**2030**	**3080**	< 5000 U	< 5000 U	< 5000 U
Selenium (D)	6010C	µg/L	--	NS	< 10 U	NS	< 40.0 U	< 40.0 U	< 40.0 U	< 10 U	NS	< 10 U
Selenium (T)	6010C	µg/L	--	< 10 U	< 10 U	NS	< 40.0 U	< 40.0 U	< 40.0 U	< 10 U	< 10 U	< 10 U
Silver (D)	6010C	µg/L	--	NS	< 5.0 U	NS	< 10.0 U	< 10.0 U	< 10.0 U	< 5.0 U	NS	< 5.0 U
Silver (T)	6010C	µg/L	--	< 5.0 U	< 5.0 U	NS	< 10.0 U	< 10.0 U	< 10.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Sodium (D)	6010C	µg/L	--	NS	**41000**	NS	**41300**	**38200**	**37300**	**25000**	NS	**24000**
Sodium (T)	6010C	µg/L	--	**46000**	**42000**	NS	**43300**	**38800**	**36300**	**24000**	**25000**	**23000**
Thallium (D)	6020A	µg/L	--	NS	< 50 U	NS	< 8.3 U	< 1.0 U	< 1.0 U	< 50 U	NS	< 50 U
Thallium (T)	6020A	µg/L	--	< 50 U	< 50 U	NS	< 5.2 U	< 1.0 U	< 1.0 U	< 50 U	< 50 U	< 50 U
Vanadium (D)	6010C	µg/L	--	NS	< 50 U	NS	< 10.0 U	< 10.0 U	< 10.0 U	< 50 U	NS	< 50 U
Vanadium (T)	6010C	µg/L	--	**20 J**	< 50 U	NS	**3.1 J**	**3.7 J**	**43.6**	< 50 U	< 50 U	< 50 U
Zinc (D)	6010C	µg/L	--	NS	**7.9 J**	NS	**11.4 J**	< 15.4 U	< 11.4 U	< 20 U	NS	< 20 U
Zinc (T)	6010C	µg/L	--	**27**	**9.2 J**	NS	**9.8 J**	**12.5 J**	**25**	< 20 U	< 20 U	< 20 U

Table 5
2014 Comprehensive Data Table
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland

			Location ID:	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-8	MW-8	MW-8
			Date:	4/22/2010	6/1/2010	2/25/2014	6/26/2014	9/9/2014	10/16/2014	4/14/2010	4/22/2010	6/1/2010
			Sample ID:	FM13MW007 (042210)-H	FM13MW07 (060110)	FGGM13-MW7	FGGM13-MW7(062614)	FGGM13-MW7(090914)	FGGM13-MW7(101614)	FM13-MW008 (041410)	FM13MW008 (042210)-H	FM13MW08 (060110)
Analtye Group	**USEPA Method**	**Units**	**SCL**									
Pesticides												
4,4-DDD	8081B	µg/L	--	< 0.025 UJ	< 0.027 UJ	< 0.16 U	< 0.017 U	< 0.019 U	< 0.016 U	< 0.026 U	< 0.029 U	< 0.026 UJ
4,4-DDE	8081B	µg/L	--	< 0.025 UJ	< 0.027 UJ	< 0.16 U	< 0.017 U	< 0.019 U	< 0.016 U	< 0.026 U	< 0.029 U	< 0.026 UJ
4,4-DDT	8081B	µg/L	--	< 0.025 UJ	< 0.027 UJ	< 0.16 U	< 0.017 U	< 0.019 U	< 0.016 U	< 0.026 U	< 0.029 U	< 0.026 UJ
Aldrin	8081B	µg/L	--	< 0.025 UJ	< 0.027 UJ	< 0.16 U	< 0.0084 U	< 0.0093 U	< 0.0081 U	< 0.026 U	< 0.029 U	< 0.026 UJ
Alpha-BHC	8081B	µg/L	--	< 0.025 UJ	< 0.027 UJ	< 0.16 U	< 0.0084 U	< 0.0093 U	< 0.0081 U	< 0.026 U	< 0.029 U	< 0.026 UJ
Alpha-chlordane	8081B	µg/L	2	**0.014 J**	**0.012 J**	< 0.16 U	**0.014**	**0.015**	**0.01**	**0.013 J**	**0.0073 J**	**0.0076 J**
Beta-BHC	8081B	µg/L	--	< 0.025 UJ	< 0.027 UJ	< 0.16 U	< 0.0084 U	< 0.0093 U	< 0.0081 U	< 0.026 U	< 0.029 U	< 0.026 UJ
Camphechlor	8081B	µg/L	--	< 0.25 UJ	< 0.27 UJ	< 0.47 U	< 0.84 U	< 0.93 U	< 0.81 U	< 0.26 U	< 0.29 U	< 0.26 UJ
Delta-BHC	8081B	µg/L	--	< 0.025 UJ	< 0.027 UJ	< 0.16 U	< 0.0084 U	< 0.0093 U	< 0.0081 U	< 0.026 U	< 0.029 U	< 0.026 UJ
Dieldrin	8081B	µg/L	--	< 0.025 UJ	< 0.027 UJ	< 0.16 U	< 0.017 U	< 0.019 U	< 0.016 U	**0.0051 J**	< 0.029 U	< 0.026 UJ
Endosulfan I	8081B	µg/L	--	< 0.025 UJ	< 0.027 UJ	< 0.16 U	< 0.0084 U	< 0.0093 U	< 0.0081 U	< 0.026 U	< 0.029 U	< 0.026 UJ
Endosulfan II	8081B	µg/L	--	< 0.025 UJ	< 0.027 UJ	< 0.16 U	< 0.017 U	< 0.019 U	< 0.016 U	< 0.026 U	< 0.029 U	< 0.026 UJ
Endosulfan sulfate	8081B	µg/L	--	< 0.025 UJ	< 0.027 UJ	< 0.16 U	< 0.017 U	< 0.019 U	< 0.016 U	< 0.026 U	< 0.029 U	< 0.026 UJ
Endrin	8081B	µg/L	--	< 0.025 UJ	< 0.027 UJ	< 0.16 U	< 0.017 U	< 0.019 U	< 0.016 U	< 0.026 U	< 0.029 U	< 0.026 UJ
Endrin aldehyde	8081B	µg/L	--	< 0.025 UJ	< 0.027 UJ	< 0.16 U	< 0.084 U	< 0.093 U	< 0.081 U	< 0.026 U	< 0.029 U	< 0.026 UJ
Endrin ketone	8081B	µg/L	--	< 0.025 UJ	< 0.027 UJ	< 0.16 U	< 0.017 U	< 0.019 U	< 0.016 U	< 0.026 U	< 0.029 U	< 0.026 UJ
Gamma-BHC	8081B	µg/L	0.2	< 0.025 UJ	< 0.027 UJ	< 0.16 U	< 0.0084 U	< 0.0093 U	< 0.0081 U	**0.012 J**	**0.0092 J**	**0.12 J**
gamma-chlordane	8081B	µg/L	2	**0.016 J**	**0.015 J**	< 0.16 U	**0.012**	**0.014**	**0.0089**	**0.013 J**	**0.0077 J**	**0.37 J**
Heptachlor	8081B	µg/L	0.4	< 0.025 UJ	< 0.027 UJ	< 0.16 U	< 0.0084 U	< 0.0093 U	< 0.0081 U	< 0.026 U	< 0.029 U	< 0.026 UJ
Heptachlor epoxide	8081B	µg/L	0.2	< 0.025 UJ	< 0.027 UJ	< 0.16 U	< 0.0084 U	**0.0036 J**	< 0.0081 U	**0.0032 J**	< 0.029 U	< 0.026 UJ
Methoxychlor	8081B	µg/L	--	< 0.10 UJ	< 0.11 UJ	< 0.16 U	< 0.084 U	< 0.093 U	< 0.081 U	< 0.10 U	< 0.11 U	< 0.10 UJ
Volatile Organic Compounds												
1,1,1-Trichloroethane	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1,2,2-Tetrachloroethane	8260B	µg/L	--	**2.2 J**	**0.80 J**	**0.86 J**	**1.1**	**1.1**	**1.4**	< 5.0 U	< 5.0 U	< 5.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	8260B	µg/L	--	NS	NS	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	NS	NS	NS
1,1,2-Trichloroethane	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethane	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethene	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2,3-Trichlorobenzene	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 UJ	< 5.0 U	< 5.0 U
1,2,4-Trichlorobenzene	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2-Dibromo-3-chloropropane	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2-Dibromoethane	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2-Dichlorobenzene	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2-Dichloroethane	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
1,2-Dichloropropane	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
1,3-Dichlorobenzene	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
1,4-Dichlorobenzene	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Butanone	8260B	µg/L	--	< 10 U	< 10 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U
4-Methyl-2-Pentanone	8260B	µg/L	--	< 10 U	< 10 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U
Acetone	8260B	µg/L	--	**12 J**	**1.9 U**	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	**3.0 J**	**12 J**	**1.6 U**
Benzene	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
Bromodichloromethane	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
Bromoform	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
Bromomethane	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
Carbon Disulfide	8260B	µg/L	--	**4.0 U**	< 5.0 U	< 1.0 U	< 0.5 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Carbon Tetrachloride	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
CFC-11	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
CFC-12	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
Chlorobenzene	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
Chlorodibromomethane	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
Chloroethane	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
Chloroform	8260B	µg/L	--	**1.4 J**	**1.2 J**	< 1.0 U	**0.3 J**	**0.5**	**0.5**	< 5.0 U	< 5.0 U	**0.32 J**
Chloromethane	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
cis-1,2-Dichloroethene	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
cis-1,3-Dichloropropene	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
Cyclohexane	8260B	µg/L	--	NS	NS	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	NS	NS	NS
Dichloromethane	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U

Table 5
2014 Comprehensive Data Table
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland

			Location ID:	**MW-7**	**MW-7**	**MW-7**	**MW-7**	**MW-7**	**MW-7**	**MW-8**	**MW-8**	**MW-8**
			Date:	4/22/2010	6/1/2010	2/25/2014	6/26/2014	9/9/2014	10/16/2014	4/14/2010	4/22/2010	6/1/2010
			Sample ID:	FM13MW007 (042210)-H	FM13MW07 (060110)	FGGM13-MW7	FGGM13-MW7(062614)	FGGM13-MW7(090914)	FGGM13-MW7(101614)	FM13-MW008 (041410)	FM13MW008 (042210)-H	FM13MW08 (060110)
Analtye Group	**USEPA Method**	**Units**	**SCL**									
Volatile Organic Compounds (continued)												
Isopropylbenzene	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
m,p-Xylene	8260B	µg/L	--	NS	NS	< 2.0 U	< 0.5 U	< 0.5 U	< 0.5 U	NS	NS	NS
Methyl Acetate	8260B	µg/L	--	NS	NS	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	NS	NS	NS
Methyl N-Butyl Ketone	8260B	µg/L	--	< 10 U	< 10 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U
Methylcyclohexane	8260B	µg/L	--	NS	NS	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	NS	NS	NS
Methyl-tert-butylether	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
o-Xylene	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
Styrene (Monomer)	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
Tetrachloroethene	8260B	µg/L	5	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	**1.1 J**	< 5.0 U	< 5.0 U
trans-1,2-Dichloroethene	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
trans-1,3-Dichloropropene	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
Trichloroethene	8260B	µg/L	5	< 5.0 U	< 5.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 5.0 U	< 5.0 U
Vinyl chloride	8260B	µg/L	--	< 2.0 U	< 2.0 U	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 2.0 U	< 2.0 U	< 2.0 U
Biogeochemical Parameters												
Ethane	RSK-175	µg/L	--	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethene	RSK-175	µg/L	--	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methane	RSK-175	µg/L	--	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Organic Carbon	5310	µg/L	--	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Organic Carbon	5310	µg/L	--	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 5
2014 Comprehensive Data Table
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland

			Location ID:	MW-8	MW-8	MW-8	MW-8	MW-9	MW-9	MW-9	MW-9
			Date:	2/25/2014	6/27/2014	9/10/2014	10/16/2014	3/5/2014	6/26/2014	9/9/2014	10/16/2014
			Sample ID:	FGGM13-MW8	FGGM13-MW8(062714)	FGGM13-MW8(091014)	FGGM13-MW8(101614)	FGGM13/MW9(030514)	FGGM13-MW9(062614)	FGGM13-MW9(090914)	FGGM13-MW9(101614)
Analtye Group	**USEPA Method**	**Units**	**SCL**								
Metals											
Aluminum (D)	6010C	µg/L	--	NS	< 400 U	**78.0 J**	< 400 U	NS	< 400 U (< 400 U)	< 400 U	< 400 U
Aluminum (T)	6010C	µg/L	--	NS	**664 J**	**280 J**	**1000**	NS	**1230 J (1430 J)**	**1570 J**	**765**
Antimony (D)	6020A	µg/L	--	NS	< 40.0 U	< 2.0 U	< 2.0 U	NS	< 40.0 U (< 40.0 U)	< 2.0 U	< 2.0 U
Antimony (T)	6020A	µg/L	--	NS	< 40.0 U	< 2.0 U	**0.52**	NS	< 40.0 U (< 40.0 U)	< 2.0 U	< 2.0 U
Arsenic (D)	6020A	µg/L	--	NS	< 40.0 U	< 4.0 U	< 4.0 U	NS	< 40.0 U (< 40.0 U)	< 4.0 U	< 4.0 U
Arsenic (T)	6020A	µg/L	--	NS	< 40.0 U	< 4.0 U	< 4.0 U	NS	< 40.0 U (< 40.0 U)	< 4.0 U	< 4.0 U
Barium (D)	6010C	µg/L	--	NS	**37.5**	**41.7**	**43.6**	NS	**107 (109)**	**93.5**	**83.4**
Barium (T)	6010C	µg/L	--	NS	**40.2**	**41.8**	**52.3**	NS	**111 (113)**	**96.3**	**85**
Beryllium (D)	6020A	µg/L	--	NS	< 10.0 U	< 1.0 U	< 1.0 U	NS	< 10.0 U (< 10.0 U)	< 1.0 U	**0.058 J**
Beryllium (T)	6020A	µg/L	--	NS	< 10.0 U	< 1.0 U	< 1.0 U	NS	< 10.0 U (< 10.0 U)	**0.059 J**	**0.048**
Cadmium (D)	6020A	µg/L	--	NS	< 10.0 U	< 1.0 U	< 1.0 U	NS	< 10.0 U (< 10.0 U)	< 1.0 U	< 1.0 U
Cadmium (T)	6020A	µg/L	--	NS	< 10.0 U	< 1.0 U	< 1.0 U	NS	< 10.0 U (< 10.0 U)	< 1.0 U	< 1.0 U
Calcium (D)	6010C	µg/L	--	NS	**8790**	**9460**	**10900**	NS	**24400 (25600)**	**19800**	**19400**
Calcium (T)	6010C	µg/L	--	NS	**9240**	**9780**	**11200**	NS	**24000 (24900)**	**19500**	**19500**
Chromium (D)	6010C	µg/L	--	NS	< 30.0 U	< 30.0 U	< 30.0 U	NS	< 30.0 U (< 30.0 U)	< 30.0 U	< 30.0 U
Chromium (T)	6010C	µg/L	--	NS	< 30.0 U	< 30.0 U	**1.7**	NS	< 3.1 U (< 3.0 U)	**1.8 J**	< 30.0 U
Cobalt (D)	6010C	µg/L	--	NS	< 10.0 U	< 10.0 U	< 10.0 U	NS	**3.0 J (3.4 J)**	**2.4 J**	**2.1 J**
Cobalt (T)	6010C	µg/L	--	NS	**1.0 J**	**1.0 J**	**1.3**	NS	**2.8 J (3.2 J)**	**2.8 J**	**2.6**
Copper (D)	6010C	µg/L	--	NS	< 20.0 U	< 20.0 U	< 20.0 U	NS	< 20.0 U (< 20.0 U)	< 20.0 U	< 20.0 U
Copper (T)	6010C	µg/L	--	NS	< 20.0 U	< 20.0 UJ	**3.4**	NS	< 20.0 U (< 20.0 U)	**3.8 J**	**3.2**
Iron (D)	6010C	µg/L	--	NS	< 400 U	< 400 U	< 400 U	NS	< 400 U (< 400 U)	< 400 U	< 400 U
Iron (T)	6010C	µg/L	--	NS	**538 J**	**771 J**	**1940**	NS	**859 (834)**	**775 J**	**811**
Lead (D)	6020A	µg/L	--	NS	< 30.0 U	< 2.0 U	**0.14 J**	NS	< 30.0 U (< 30.0 U)	**0.10 J**	**0.10 J**
Lead (T)	6020A	µg/L	--	NS	< 30.0 U	**0.16 J**	**0.96**	NS	< 30.0 U (< 30.0 U)	**0.45 J**	**0.44**
Magnesium (D)	6010C	µg/L	--	NS	**1860**	**2050**	**2470**	NS	**6580 (6770)**	**5400**	**5310**
Magnesium (T)	6010C	µg/L	--	NS	**1980**	**2020**	**2610**	NS	**6370 (6720)**	**5380**	**5390**
Manganese (D)	6010C	µg/L	--	NS	**10**	**10.5**	**12.6**	NS	**25.3 (24.9)**	**22.2**	**19**
Manganese (T)	6010C	µg/L	--	NS	**10.6**	**10.5**	**13.9**	NS	**26.1 (25.9)**	**21.7**	**19.4**
Mercury (D)	7470A	µg/L	--	NS	< 0.20 U	< 0.20 U	< 0.20 U	NS	< 0.20 U (< 0.20 U)	< 0.20 U	< 0.20 U
Mercury (T)	7470A	µg/L	--	NS	< 0.20 U	< 0.20 U	< 0.20 U	NS	< 0.20 U (< 0.20 U)	< 0.20 U	< 0.20 U
Nickel (D)	6010C	µg/L	--	NS	< 20.0 U	< 20.0 U	< 20.0 U	NS	**3.3 J (3.2 J)**	**2.8 J**	**2.9 J**
Nickel (T)	6010C	µg/L	--	NS	< 20.0 U	< 20.0 U	< 20.0 U	NS	**2.9 J (3.2 J)**	**2.4 J**	**2.4**
Potassium (D)	6010C	µg/L	--	NS	**1380**	**1440**	**1590**	NS	**3520 (3500)**	**3260**	**3290**
Potassium (T)	6010C	µg/L	--	NS	**1520**	**1460**	**1870**	NS	**3650 (3780)**	**3510**	**3370**
Selenium (D)	6010C	µg/L	--	NS	< 40.0 U	< 40.0 U	< 40.0 U	NS	< 40.0 U (< 40.0 U)	< 40.0 U	< 40.0 U
Selenium (T)	6010C	µg/L	--	NS	< 40.0 U	< 40.0 U	< 40.0 U	NS	< 40.0 U (< 40.0 U)	< 40.0 U	< 40.0 U
Silver (D)	6010C	µg/L	--	NS	< 10.0 U	< 10.0 U	< 10.0 U	NS	< 10.0 U (< 10.0 U)	< 10.0 U	< 10.0 U
Silver (T)	6010C	µg/L	--	NS	< 10.0 U	< 10.0 U	< 10.0 U	NS	< 10.0 U (< 10.0 U)	< 10.0 U	< 10.0 U
Sodium (D)	6010C	µg/L	--	NS	**40300**	**42900**	**43900**	NS	**103000 (105000)**	**126000**	**94800**
Sodium (T)	6010C	µg/L	--	NS	**39400**	**40800**	**44900**	NS	**106000 (105000)**	**126000**	**90300**
Thallium (D)	6020A	µg/L	--	NS	< 6.6 U	< 1.0 U	< 1.0 U	NS	**< 60.0 UJ (9.1 J)**	< 1.0 U	< 1.0 U
Thallium (T)	6020A	µg/L	--	NS	< 60.0 U	< 1.0 U	< 1.0 U	NS	**9.0 J (7.3 J)**	< 1.0 U	< 1.0 U
Vanadium (D)	6010C	µg/L	--	NS	< 10.0 U	< 10.0 U	< 10.0 U	NS	< 10.0 U (< 10.0 U)	< 10.0 U	< 10.0 U
Vanadium (T)	6010C	µg/L	--	NS	**2.0 J**	< 10.0 U	**5.7**	NS	**3.0 J (3.7 J)**	**2.8 J**	**3**
Zinc (D)	6010C	µg/L	--	NS	**3.6 J**	**5.0 J**	< 5.6 U	NS	**4.3 J (3.8 J)**	< 5.5 U	< 12.4 U
Zinc (T)	6010C	µg/L	--	NS	**2.8 J**	< 40.0 U	**7.4**	NS	**7.6 J (4.4 J)**	**4.4 J**	**7.6**

Table 5
2014 Comprehensive Data Table
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland

			Location ID:	MW-8	MW-8	MW-8	MW-8	MW-9	MW-9	MW-9	MW-9
			Date:	2/25/2014	6/27/2014	9/10/2014	10/16/2014	3/5/2014	6/26/2014	9/9/2014	10/16/2014
			Sample ID:	FGGM13-MW8	FGGM13-MW8(062714)	FGGM13-MW8(091014)	FGGM13-MW8(101614)	FGGM13/MW9(030514)	FGGM13-MW9(062614)	FGGM13-MW9(090914)	FGGM13-MW9(101614)
Analtye Group	**USEPA Method**	**Units**	**SCL**								
Pesticides											
4,4-DDD	8081B	µg/L	--	< 0.17 U	< 0.017 U	< 0.016 U	< 0.016 U	< 0.16 U	< 0.016 U (< 0.016 U)	< 0.016 U	< 0.017 U
4,4-DDE	8081B	µg/L	--	< 0.17 U	< 0.017 U	< 0.016 U	< 0.016 U	< 0.16 U	< 0.016 U (< 0.016 U)	**0.068**	< 0.017 U
4,4-DDT	8081B	µg/L	--	< 0.17 U	< 0.017 U	< 0.016 U	< 0.016 U	< 0.16 U	**0.011 J (0.012 J)**	< 0.016 U	**0.019**
Aldrin	8081B	µg/L	--	< 0.17 U	< 0.0084 U	< 0.0080 U	< 0.0081 U	< 0.16 U	**0.0043 J (0.0044 J)**	**0.02**	**0.0052**
Alpha-BHC	8081B	µg/L	--	< 0.17 U	< 0.0084 U	< 0.0080 U	< 0.0081 U	< 0.16 U	**0.012 (0.013)**	< 0.020 U	**0.04**
Alpha-chlordane	8081B	µg/L	2	< 0.17 U	**0.0058 J**	**0.021**	**0.015**	**0.14 J**	**0.34 (0.36)**	**0.77**	**0.48**
Beta-BHC	8081B	µg/L	--	< 0.17 U	< 0.0084 U	< 0.0080 U	**0.0059**	< 0.16 U	< 0.0081 U (< 0.0081 U)	< 0.0081 U	< 0.0084 U
Camphechlor	8081B	µg/L	--	< 0.51 U	< 0.84 U	< 0.80 U	< 0.81 U	< 0.47 U	< 0.81 U (< 0.81 U)	< 0.81 U	< 0.84 U
Delta-BHC	8081B	µg/L	--	< 0.17 U	< 0.0084 U	< 0.0080 U	< 0.0081 U	< 0.16 U	**0.0066 J (0.0065 J)**	**0.0077 J**	**0.008**
Dieldrin	8081B	µg/L	--	< 0.17 U	**0.0067 J**	**0.0086 J**	**0.0056**	< 0.16 U	**0.015 J (0.014 J)**	**0.051**	**0.027**
Endosulfan I	8081B	µg/L	--	< 0.17 U	< 0.0084 U	< 0.0080 U	< 0.0081 U	< 0.16 U	**0.03 (0.031)**	**0.084**	**0.024**
Endosulfan II	8081B	µg/L	--	< 0.17 U	< 0.017 U	< 0.016 U	< 0.016 U	< 0.16 U	< 0.016 U (< 0.016 U)	< 0.016 U	< 0.017 U
Endosulfan sulfate	8081B	µg/L	--	< 0.17 U	< 0.017 U	< 0.016 U	< 0.016 U	< 0.16 U	**0.0068 J (0.0067 J)**	**0.013 J**	**0.0082**
Endrin	8081B	µg/L	--	< 0.17 U	< 0.017 U	< 0.016 U	< 0.016 U	< 0.16 U	< 0.016 U (< 0.016 U)	**0.029**	< 0.017 U
Endrin aldehyde	8081B	µg/L	--	< 0.17 U	< 0.084 U	< 0.080 U	< 0.081 U	< 0.16 U	< 0.081 U (< 0.081 U)	< 0.081 U	< 0.084 U
Endrin ketone	8081B	µg/L	--	< 0.17 U	< 0.017 U	< 0.016 U	< 0.016 U	< 0.16 U	**0.013 J (0.012 J)**	**0.015 J**	< 0.017 U
Gamma-BHC	8081B	µg/L	0.2	< 0.17 U	**0.02**	**0.014**	**0.017**	**0.021 J**	**0.11 (0.1)**	**0.097**	**0.067**
gamma-chlordane	8081B	µg/L	2	< 0.17 U	**0.011**	< 0.030 U	**0.014**	**0.12 J**	**0.27 (0.29)**	**0.54**	**0.43**
Heptachlor	8081B	µg/L	0.4	< 0.17 U	< 0.0084 U	< 0.0080 U	< 0.0081 U	< 0.16 U	< 0.0081 U (< 0.0081 U)	**0.0066 J**	< 0.0084 U
Heptachlor epoxide	8081B	µg/L	0.2	< 0.17 U	**0.0019 J**	**0.0055 J**	**0.0039**	< 0.16 U	**0.046 (0.049)**	< 0.0081 U	**0.031**
Methoxychlor	8081B	µg/L	--	< 0.17 U	< 0.084 U	< 0.080 U	< 0.081 U	< 0.16 U	< 0.081 U (< 0.081 U)	< 0.081 U	< 0.084 U
Volatile Organic Compounds											
1,1,1-Trichloroethane	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
1,1,2,2-Tetrachloroethane	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
1,1,2-trichloro-1,2,2-trifluoroethane	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
1,1,2-Trichloroethane	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
1,1-Dichloroethane	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
1,1-Dichloroethene	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
1,2,3-Trichlorobenzene	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
1,2,4-Trichlorobenzene	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
1,2-Dibromo-3-chloropropane	8260B	µg/L	--	< 5.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
1,2-Dibromoethane	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
1,2-Dichlorobenzene	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
1,2-Dichloroethane	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
1,2-Dichloropropane	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
1,3-Dichlorobenzene	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
1,4-Dichlorobenzene	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
2-Butanone	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 0.5 U
4-Methyl-2-Pentanone	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 0.5 U
Acetone	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 0.5 U
Benzene	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
Bromodichloromethane	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
Bromoform	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
Bromomethane	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
Carbon Disulfide	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 1.0 U	< 1.0 U
Carbon Tetrachloride	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
CFC-11	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
CFC-12	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
Chlorobenzene	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
Chlorodibromomethane	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
Chloroethane	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
Chloroform	8260B	µg/L	--	< 1.0 U	**0.1 J**	**0.1 J**	**0.2**	< 1.0 U	**0.5 J (0.5 J)**	**0.5 J**	**0.5**
Chloromethane	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
cis-1,3-Dichloropropene	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
Cyclohexane	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
Dichloromethane	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U

Table 5
2014 Comprehensive Data Table
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland

			Location ID:	**MW-8**	**MW-8**	**MW-8**	**MW-8**	**MW-9**	**MW-9**	**MW-9**	**MW-9**
			Date:	2/25/2014	6/27/2014	9/10/2014	10/16/2014	3/5/2014	6/26/2014	9/9/2014	10/16/2014
			Sample ID:	FGGM13-MW8	FGGM13-MW8(062714)	FGGM13-MW8(091014)	FGGM13-MW8(101614)	FGGM13/MW9(030514)	FGGM13-MW9(062614)	FGGM13-MW9(090914)	FGGM13-MW9(101614)
Analtye Group	**USEPA Method**	**Units**	**SCL**								
Volatile Organic Compounds (continued)											
Isopropylbenzene	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
m,p-Xylene	8260B	µg/L	--	< 2.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 2.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
Methyl Acetate	8260B	µg/L	--	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U (< 1.0 U)	< 1.0 U	< 1.0 U
Methyl N-Butyl Ketone	8260B	µg/L	--	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U (< 5.0 U)	< 5.0 U	< 5.0 U
Methylcyclohexane	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
Methyl-tert-butylether	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	**0.46 J**	**0.5 J (0.4 J)**	**0.4 J**	**0.3**
o-Xylene	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
Styrene (Monomer)	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
Tetrachloroethene	8260B	µg/L	5	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	**2.4**	**14 (14)**	**25**	**12**
Toluene	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
trans-1,2-Dichloroethene	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
trans-1,3-Dichloropropene	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
Trichloroethene	8260B	µg/L	5	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	**0.4 J (0.4 J)**	**0.5 J**	**0.4**
Vinyl chloride	8260B	µg/L	--	< 1.0 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1.0 U	< 0.5 U (< 0.5 U)	< 0.5 U	< 0.5 U
Biogeochemical Parameters											
Ethane	RSK-175	µg/L	--	NS	NS	NS	NS	NS	NS (NS)	NS	NS
Ethene	RSK-175	µg/L	--	NS	NS	NS	NS	NS	NS (NS)	NS	NS
Methane	RSK-175	µg/L	--	NS	NS	NS	NS	NS	NS (NS)	NS	NS
Dissolved Organic Carbon	5310	µg/L	--	NS	NS	NS	NS	NS	NS (NS)	NS	NS
Total Organic Carbon	5310	µg/L	--	NS	NS	NS	NS	NS	NS (NS)	NS	NS

Table 5
2014 Comprehensive Data Table
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland

Notes:
1. Values exceeding the applicable Site Cleanup Level (SCL) are boldfaced and shaded. Detections are boldfaced.
2. Duplicate sample results are provided in parenthesis adjacent to results presented for the parent sample location.
3. Sampling was conducted using low flow sample methodologies (4/14/10 - 4/16/10) and hydrasleeve samplers (4/22/10) for comparison purposes.

--- - Not applicable
µg/L - micrograms per liter
mg/L - milligrams per liter
D - dissolved
DDD - Dichlorodiphenyldichloroethane
DDT - Dichlorodiphenyltrichloroethane
H - Sample analyzed outside of holding time.
J - Indicates an estimated result. Result is less than laboratory reporting limits.
NS - Not Sampled
P - The relative percent difference between two gas chromatography columns exceeded 40%.
S.U. - Standard Units
T - total

Figures

CITY: MPLS DIV/GROUP: IM DB: MG LD: RK
FT MEADE (GP09MEAD.C000)
Path: Z:\GISPROJECTS_ENV\Fort_Meade\ArcMap\Pesticide_Shop\2014\MW_Locs_20140331.mxd

LEGEND:

- WELL
- ROAD
- RAILROAD
- DEMOLISHED STRUCTURES
- EXISTING STRUCTURES
- SURFACE WATER
- INSTALLATION BOUNDARY

0 100 200 Feet

GRAPHIC SCALE

NOTES:

11/2011 IMAGERY ACCESSED THROUGH BING MAPS AERIAL VIA ARCGIS ONLINE LAYER PACKAGES BY ESRI (12/1/2010) (C) 2010 MICROSOFT CORPORATION AND ITS DATA SUPPLIERS. ACCESSED ON 10/7/2014 THROUGH ARCGIS 10.

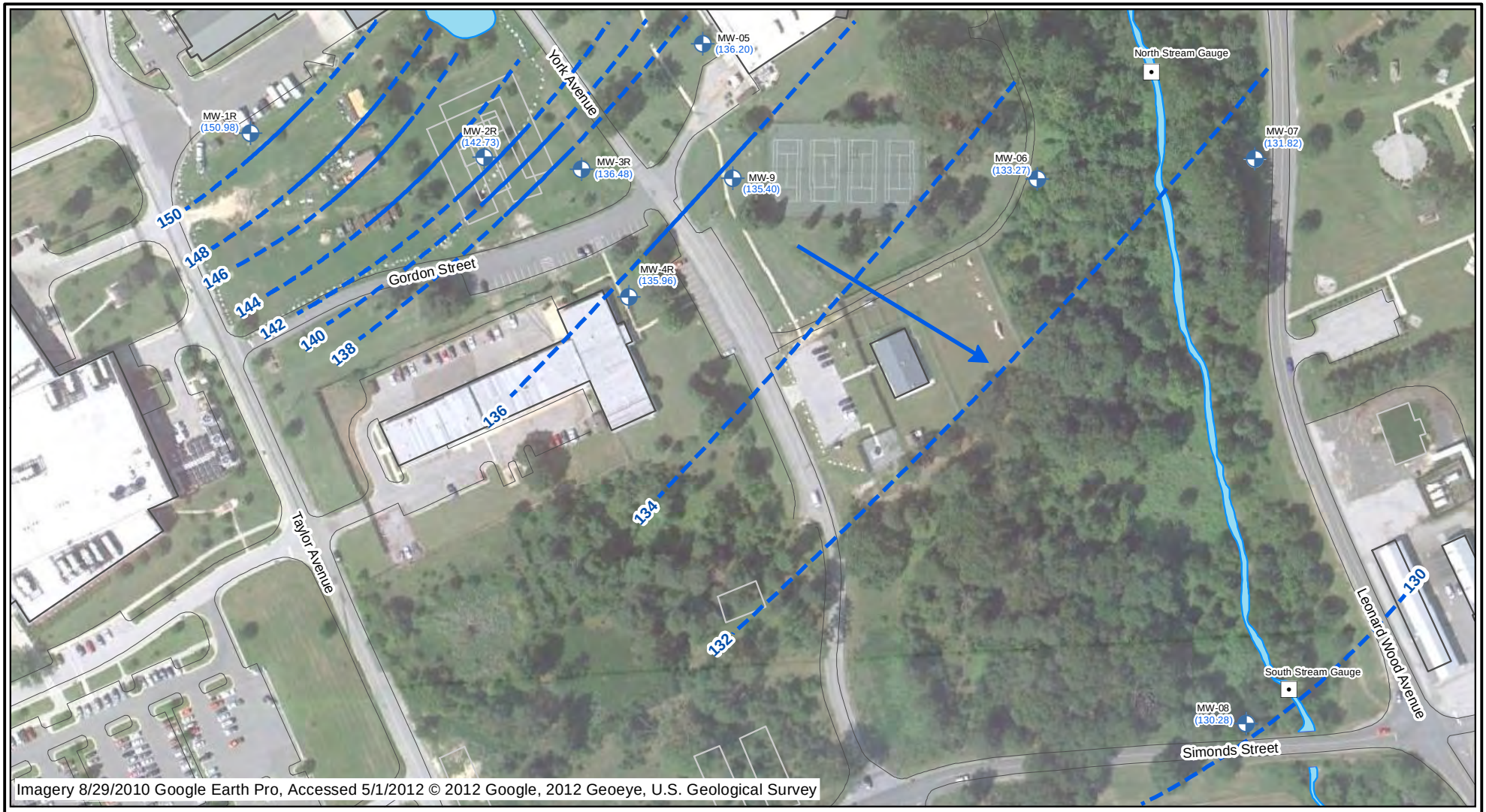
FGGM13 FORMER PESTICIDE SHOP, BUILDING 6621
FORT GEORGE G. MEADE, MARYLAND

MONITORING WELL LOCATIONS

ARCADIS

FIGURE
1

CITY: DIV: ENV-IMDV DB: TRY PIC: PM: TM: TR: PROJECT NUMBER: COORDINATE SYSTEM: NAD 1983 StatePlane Maryland FIPS 1900 Feet
Z:\GISPROJECTS_ENV\Fort_Meade\ArcMap\Pesticide_Shop\2014\2014 Annual Monitoring Report\Fig2_GW_Contours_20141211.mxd PLOTTED: 12/11/2014 10:41:10 AM BY: sbell



LEGEND

- Well
- Stream Gauge
- Road
- Installation Boundary
- Existing Structures
- Demolished Structures
- Surface Water
- (135.40) Groundwater Elevation (Feet Above Mean Sea Level)
- Groundwater Elevation Contour Line (Dashed Where Inferred)
- Groundwater Flow Direction (Foot Per Foot)

0 100 200 Feet
GRAPHIC SCALE

FGGM-13 FORMER PESTICIDE SHOP, BUILDING 6621
FORT GEORGE G. MEADE, MARYLAND

MONITORING WELL LOCATIONS AND GROUNDWATER ELEVATIONS OCTOBER 2014

ARCADIS

FIGURE
2

LEGEND:

- WELL
- INJECTION POINT
- TEMPORARY PIEZOMETER
- WATER SOURCE
- INJECTION TRANSECTS
- APPROXIMATE EXTENT OF EXCAVATION
- FORMER PESTICIDE SHOP BUILDINGS
- FORMER BUILDING 6621
- ANTICIPATED IN-SITU REACTIVE ZONE BARRIER

NOTES:
1. IP – INJECTION POINT
2. PZ – TEMPORARY PIEZOMETER
3. 11/2011 IMAGERY ACCESSED THROUGH BING MAPS AERIAL VIA ARCGIS ONLINE LAYER PACKAGES BY ESRI (12/1/2010) (C) 2010 MICROSOFT CORPORATION AND ITS DATA SUPPLIERS. ACCESSED ON 11/25/2014 THROUGH ARCGIS 10.

FGGM-13 FORMER PESTICIDE SHOP, BUILDING 6621
FORT GEORGE G. MEADE, MARYLAND

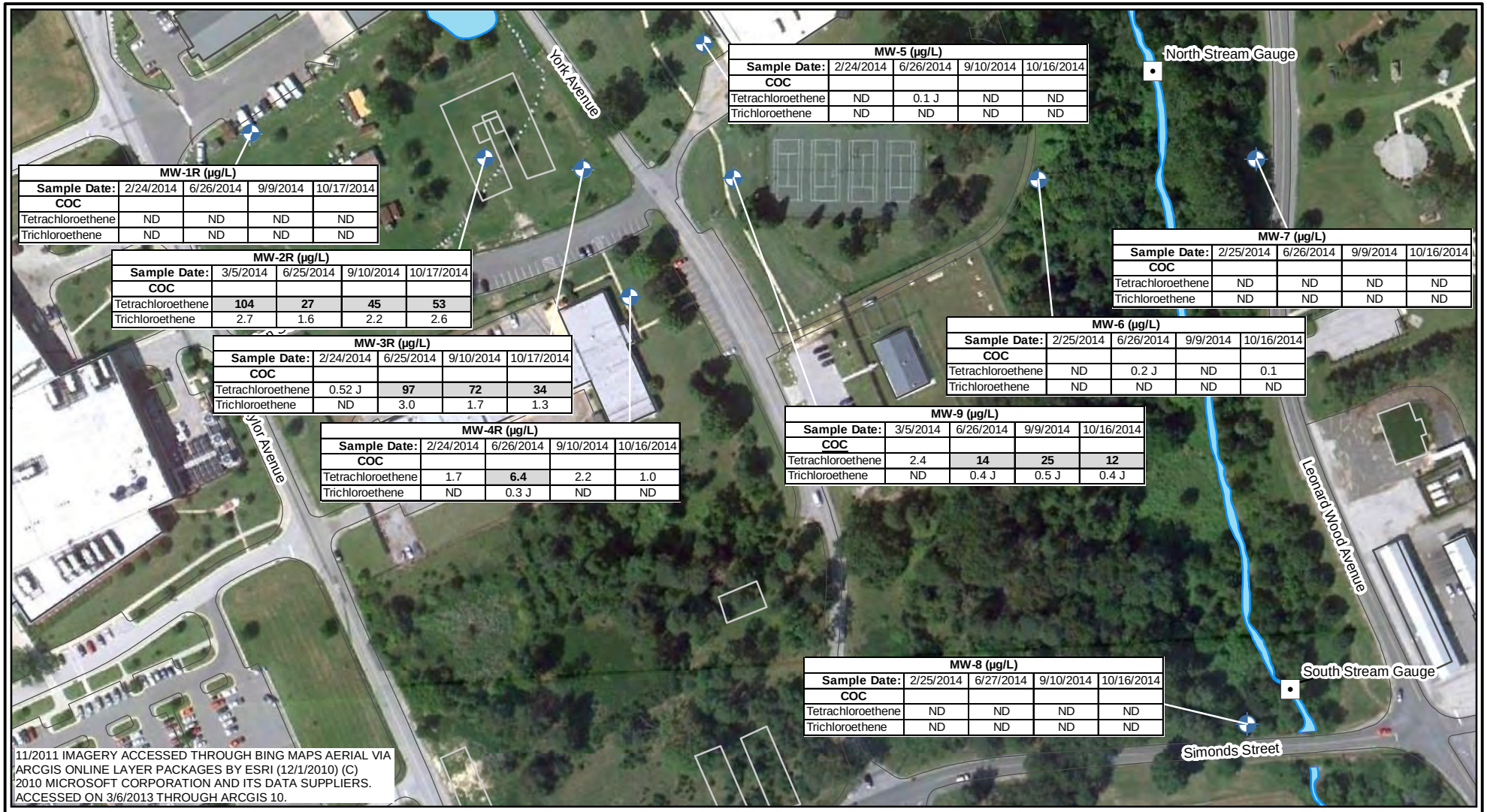
ENHANCED REDUCTIVE DECHLORINATION LAYOUT

ARCADIS

FIGURE
3

CITY: DIV: ENV-IMDV DB: TRY PIC: PM: TM: TR: PROJECT NUMBER: COORDINATE SYSTEM: NAD 1983 StatePlane Maryland FIPS 1900 Feet
Z:\GISPROJECTS_ENV\Fort_Meade\ArcMap\Pesticide_Shop\2014\ERD_Layout_20141125.mxd PLOTTED: 11/25/2014 11:56:29 AM BY: sbell

CITY: DIV: ENV-IMDV DB: TRY PIC: PM: TM: TR: PROJECT NUMBER: COORDINATE SYSTEM: NAD 1983 StatePlane Maryland FIPS 1900 Feet
Z:\GISPROJECTS_ENV\Fort_Meade\ArcMap\Pesticide_Shop\2014\2014 Annual Monitoring Report\Fig5_GW_VOCs_20141110.mxd PLOTTED: 11/11/2014 3:14:02 PM BY: kkelley



MW-1R (µg/L)

Sample Date:	2/24/2014	6/26/2014	9/9/2014	10/17/2014
COC				
Tetrachloroethene	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND

MW-2R (µg/L)

Sample Date:	3/5/2014	6/25/2014	9/10/2014	10/17/2014
COC				
Tetrachloroethene	**104**	**27**	**45**	**53**
Trichloroethene	2.7	1.6	2.2	2.6

MW-3R (µg/L)

Sample Date:	2/24/2014	6/25/2014	9/10/2014	10/17/2014
COC				
Tetrachloroethene	0.52 J	**97**	**72**	**34**
Trichloroethene	ND	3.0	1.7	1.3

MW-4R (µg/L)

Sample Date:	2/24/2014	6/26/2014	9/10/2014	10/16/2014
COC				
Tetrachloroethene	1.7	**6.4**	2.2	1.0
Trichloroethene	ND	0.3 J	ND	ND

MW-5 (µg/L)

Sample Date:	2/24/2014	6/26/2014	9/10/2014	10/16/2014
COC				
Tetrachloroethene	ND	0.1 J	ND	ND
Trichloroethene	ND	ND	ND	ND

MW-6 (µg/L)

Sample Date:	2/25/2014	6/26/2014	9/9/2014	10/16/2014
COC				
Tetrachloroethene	ND	0.2 J	ND	0.1
Trichloroethene	ND	ND	ND	ND

MW-7 (µg/L)

Sample Date:	2/25/2014	6/26/2014	9/9/2014	10/16/2014
COC				
Tetrachloroethene	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND

MW-8 (µg/L)

Sample Date:	2/25/2014	6/27/2014	9/10/2014	10/16/2014
COC				
Tetrachloroethene	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND

MW-9 (µg/L)

Sample Date:	3/5/2014	6/26/2014	9/9/2014	10/16/2014
COC				
Tetrachloroethene	2.4	**14**	**25**	**12**
Trichloroethene	ND	0.4 J	0.5 J	0.4 J

LEGEND

- WELL
- STREAM GAUGE
- ROAD
- INSTALLATION BOUNDARY
- EXISTING STRUCTURES
- DEMOLISHED STRUCTURES
- SURFACE WATER

COC	SCL (µg/L)
Trichloroethene	5
Vinyl Chloride	5

0 100 200 Feet
GRAPHIC SCALE

NOTES:
Values exceeding the applicable screening criterion are boldfaced and shaded.
ND - Analyte was not detected above reporting limits
µg/L - micrograms per liter
J - Indicates an estimated concentration.
COC - Constituent of Concern
SCL - Site Cleanup Level

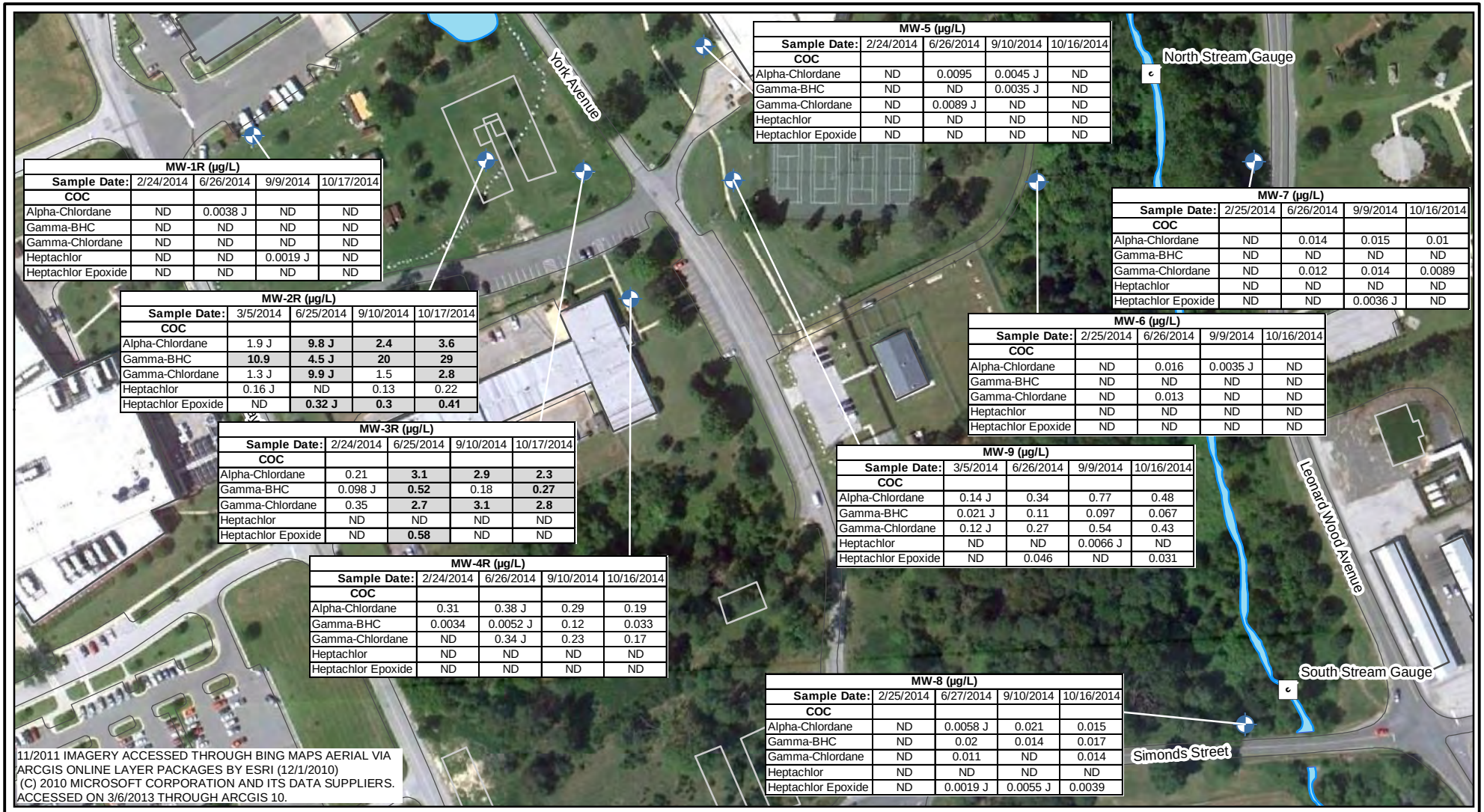
FGGM13 FORMER PESTICIDE SHOP, BUILDING 6621
FORT GEORGE G. MEADE, MARYLAND

2014 GROUNDWATER MONITORING RESULTS - VOCs

ARCADIS

FIGURE
4

CITY: DIV: ENV-IMDV DB: TRY PIC: PM: TM: TR: PROJECT NUMBER: COORDINATE SYSTEM: NAD 1983 StatePlane Maryland FIPS 1900 Feet
Z:\GISPROJECTS_ENV\Fort_Meade\ArcMap\Pesticide_Shop\2014\2014 Annual Monitoring Report\Fig6_GW_Pest_20141110.mxd PLOTTED: 11/11/2014 1:18:59 PM BY: kkelley



11/2011 IMAGERY ACCESSED THROUGH BING MAPS AERIAL VIA ARCGIS ONLINE LAYER PACKAGES BY ESRI (12/1/2010)
(C) 2010 MICROSOFT CORPORATION AND ITS DATA SUPPLIERS. ACCESSED ON 3/6/2013 THROUGH ARCGIS 10.

MW-5 (µg/L)

Sample Date:	2/24/2014	6/26/2014	9/10/2014	10/16/2014
COC				
Alpha-Chlordane	ND	0.0095	0.0045 J	ND
Gamma-BHC	ND	ND	0.0035 J	ND
Gamma-Chlordane	ND	0.0089 J	ND	ND
Heptachlor	ND	ND	ND	ND
Heptachlor Epoxide	ND	ND	ND	ND

MW-1R (µg/L)

Sample Date:	2/24/2014	6/26/2014	9/9/2014	10/17/2014
COC				
Alpha-Chlordane	ND	0.0038 J	ND	ND
Gamma-BHC	ND	ND	ND	ND
Gamma-Chlordane	ND	ND	ND	ND
Heptachlor	ND	ND	0.0019 J	ND
Heptachlor Epoxide	ND	ND	ND	ND

MW-7 (µg/L)

Sample Date:	2/25/2014	6/26/2014	9/9/2014	10/16/2014
COC				
Alpha-Chlordane	ND	0.014	0.015	0.01
Gamma-BHC	ND	ND	ND	ND
Gamma-Chlordane	ND	0.012	0.014	0.0089
Heptachlor	ND	ND	ND	ND
Heptachlor Epoxide	ND	ND	0.0036 J	ND

MW-2R (µg/L)

Sample Date:	3/5/2014	6/25/2014	9/10/2014	10/17/2014
COC				
Alpha-Chlordane	1.9 J	**9.8 J**	**2.4**	**3.6**
Gamma-BHC	**10.9**	**4.5 J**	**20**	**29**
Gamma-Chlordane	1.3 J	**9.9 J**	1.5	**2.8**
Heptachlor	0.16 J	ND	0.13	0.22
Heptachlor Epoxide	ND	**0.32 J**	**0.3**	**0.41**

MW-6 (µg/L)

Sample Date:	2/25/2014	6/26/2014	9/9/2014	10/16/2014
COC				
Alpha-Chlordane	ND	0.016	0.0035 J	ND
Gamma-BHC	ND	ND	ND	ND
Gamma-Chlordane	ND	0.013	ND	ND
Heptachlor	ND	ND	ND	ND
Heptachlor Epoxide	ND	ND	ND	ND

MW-3R (µg/L)

Sample Date:	2/24/2014	6/25/2014	9/10/2014	10/17/2014
COC				
Alpha-Chlordane	0.21	**3.1**	**2.9**	**2.3**
Gamma-BHC	0.098 J	**0.52**	0.18	**0.27**
Gamma-Chlordane	0.35	**2.7**	**3.1**	**2.8**
Heptachlor	ND	ND	ND	ND
Heptachlor Epoxide	ND	**0.58**	ND	ND

MW-9 (µg/L)

Sample Date:	3/5/2014	6/26/2014	9/9/2014	10/16/2014
COC				
Alpha-Chlordane	0.14 J	0.34	0.77	0.48
Gamma-BHC	0.021 J	0.11	0.097	0.067
Gamma-Chlordane	0.12 J	0.27	0.54	0.43
Heptachlor	ND	ND	0.0066 J	ND
Heptachlor Epoxide	ND	0.046	ND	0.031

MW-4R (µg/L)

Sample Date:	2/24/2014	6/26/2014	9/10/2014	10/16/2014
COC				
Alpha-Chlordane	0.31	0.38 J	0.29	0.19
Gamma-BHC	0.0034	0.0052 J	0.12	0.033
Gamma-Chlordane	ND	0.34 J	0.23	0.17
Heptachlor	ND	ND	ND	ND
Heptachlor Epoxide	ND	ND	ND	ND

MW-8 (µg/L)

Sample Date:	2/25/2014	6/27/2014	9/10/2014	10/16/2014
COC				
Alpha-Chlordane	ND	0.0058 J	0.021	0.015
Gamma-BHC	ND	0.02	0.014	0.017
Gamma-Chlordane	ND	0.011	ND	0.014
Heptachlor	ND	ND	ND	ND
Heptachlor Epoxide	ND	0.0019 J	0.0055 J	0.0039

LEGEND

- WELL
- STREAM GAUGE
- ROAD
- INSTALLATION BOUNDARY
- EXISTING STRUCTURES
- DEMOLISHED STRUCTURES
- SURFACE WATER

COC	SCL (µg/L)
Alpha-Chlordane	2
Gamma-BHC	0.2
Gamma-Chlordane	2
Heptachlor	0.4
Heptachlor Epoxide	0.2

NOTES:
Values exceeding the applicable screening criterion are boldfaced and shaded.
ND - Analyte was not detected above reporting limits
µg/L - micrograms per liter
J - Indicates an estimated concentration.
COC - Constituent of Concern
SCL - Site Cleanup Level

0 100 200 Feet
GRAPHIC SCALE

FGGM13 FORMER PESTICIDE SHOP, BUILDING 6621
FORT GEORGE G. MEADE, MARYLAND

2014 GROUNDWATER MONITORING RESULTS - PESTICIDES

ARCADIS

FIGURE
5

Attachment 1

Field Forms

ARCADIS

Instrument Calibration Log

Project Name: Pesticide Spp

Project Number: GP09MEAD.PEST.V001

Calibrating Personnel: A. King

Time of Calibration: 0630

Weather Conditions: cloudy, 55°F

Barometric Pressure: 754.89 mm Hg

Date: 10/16/14

CALIBRANT	INSTRUMENT	INITIAL READING	VALUE ENTERED	FINAL READING	TIME	TEMP
pH 7.00	YSI	7.03	7.00	7.00	0630	21.62
pH 4.00	↓	4.00	4.00	4.00	0633	21.60
Conductivity (1.413)	↓	1.462	1.413	1.412	0627	21.55
Turbidity (1.0 NTU)	HACH	9.89	10	—	0646	—
Turbidity (100 NTU)	↓	100	100	—	0644	—
DO (mg/L)	—	—	—	—	—	—
DO%	YSI	100% ~~240.0~~ *	100	99.2	0643	20.78
ORP (mV)	↓	240.0	240	240.2	0639	21.61

Notes:

YSI 556MPS - serial # 018532

Turbidity meter - HACH 2100Q - serial # 025438

ARCADIS

Instrument Calibration Log

Project Name: Pesticide Shop

Date: 10/16/14

Project Number: GP09MEAD.PEST.MD001

Calibrating Personnel: Sarah Matleson

Time of Calibration: 0615

Weather Conditions: Cloudy, ~55

Barometric Pressure: 29.72in → 754.89 mm Hg

CALIBRANT	INSTRUMENT	INITIAL READING	VALUE ENTERED	FINAL READING	TIME	TEMP
pH 7.00	YSI	7.12	7.00	7.00	0619	22.23°C
pH 4.00	↓	3.99	4.00	4.00	0623	22.23°C
Conductivity (1.413)	↓	1.428	1.413	1.413	0627	22.19°C
Turbidity (1.0 NTU)	LaMotte	0.83	1.00	1.05	0633	—
Turbidity (10.0 NTU)	↓	10.40	10.00	10.02	0634	—
DO (mg/L)	—	—	—	—	—	—
DO%	YSI	103.2	100.0	99.3	0639	21.98°C
ORP (mV)	↓	238.9	240.0	240.0	0645	22.16°C

Notes: YSI 556 (YSI #1) & LaMotte - See cal log from 10/14/14 for SNs & Pine IDs

Field Forms-Environmental.xls.xls
Inst Calibration

ARCADIS

Instrument Calibration Log

Project Name: Pesticide Snap

Date: 10/17/14

Project Number: GP09 MEAD. PEST. IN0001

Calibrating Personnel: Sara Matteson

Time of Calibration: 0630

Weather Conditions: 55°, Partly Cloudy

Barometric Pressure: 29.75 → 755.65 mm Hg

CALIBRANT	INSTRUMENT	INITIAL READING	VALUE ENTERED	FINAL READING	TIME	TEMP
pH 7.00	YSI	6.95	7.00	7.00	0633	20.13°
pH 4.00	↓	3.98	4.00	4.00	0638	20.01
Conductivity (1.413)	↓	1.406	1.413	1.413	0643	19.88°
Turbidity (1.0 NTU)	LaMotte	1.09	1.00	1.05	0646	—
Turbidity (10.0 NTU)	↓	9.19	10.00	10.02	0647	—
DO (mg/L)	—	—	—	—	—	—
DO%	YSI	107.0	100.0	99.4	0650	18.69°
ORP (mV)	↓	243.1	240.0	240.0	0705	19.26°

Notes: YSI 556 + Lamotte 2020 - see cal log from 10/14 for SNs & Pine IDs

ARCADIS

Instrument Calibration Log

Project Name: Pesticide Shop

Date: 10/17/14

Project Number: GP09 MEAD. PEST. MD001

Calibrating Personnel: A. King

Time of Calibration: 0643

Weather Conditions: 58°F, partly cloudy

Barometric Pressure: 755.65 mm Hg

CALIBRANT	INSTRUMENT	INITIAL READING	VALUE ENTERED	FINAL READING	TIME	TEMP
pH 7.00	YSI	7.06	7.00	7.00	0649	19.54
pH 4.00	↓	4.02	4.00	4.00	0651	19.46
Conductivity (_____)	↓	1.409	1.413	1.413	0645	19.43
Turbidity (10 NTU)	HACH	9.83	10	—	0707	—
Turbidity (100 NTU)	↓	101	100	—	0705	—
DO (mg/L)	—	—	—	—	—	—
DO%	YSI	102.8	100	99.4	0658	17.80
ORP (mV)	↓	238.5	240	240.1	0654	19.40

Notes: YSI MPS
HACH 2100Q – #025438

ARCADIS

Groundwater Sampling Form

Project No. GP09MEAD.PEST.MD001 | Well ID MW-1R | Date 10/16/14 & 10/17/14

Project Name/Location Pesticide Shop/ Fort Meade, MD | Weather Lt rain (drizzle) (M.3 H), ~60°F

Measuring Pt. Description TOC | Screen Setting (ft-bmp) 13.5-23.5 | Casing Diameter (in.) 2" | Well Material ✕ PVC ___ SS ___ Other

Total Depth (ft-bmp) 22.59 | Static Water Level (ft-bmp) 20.30 | Water Column in Well 2.29 | Gallons in Well ~0.37

Calc.Gallons Purged 1.16 | Pump Intake (ft-bmp) Set @ bottom | Purge Method: Centrifugal ___ Submersible Bladder ___ Disp. Bailer ___ Other ___

Gallons Purged ~1.5 | MP Elevation — | Sample Method Low Flow

Sample Time: Label 1315 on 10/17/14 | Replicate/ Code No. — | Pump On/Off 0935

Sampled by Sarah Matteson / Anna King

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft) TOC	Gallons Purged	pH	Cond. (µmhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
10/16/14 0940	5	125	20.72		3.47	2.667	8.56	2.76	16.93	95.2	clear	none
0945	10	125	20.89		3.16	2.703	3.12	2.54	16.79	114.6	clear	none
0950	15	125	21.06		3.09	2.724	1.90	2.40	16.71	101.2	"	"
0955	20	125	21.18		3.06	2.750	1.83	2.29	16.69	95.2	"	"
1000	25	125	21.29		3.07	2.779	1.08	2.07	16.67	94.3	"	"
1005	30	125	21.37		3.08	2.790	0.98	1.90	16.64	91.4	"	"
1010	35	125	21.37	1.16	3.14	2.783	0.89	1.82	16.61	90.5	"	"
1015	—	—	DRY									
10/17/14 0814	—	—	21.26									
1300	—	—	21.26									
1315	—	—	Sample collected									

Constituents Sampled	Container	Number	Preservative
VOCs	40mL VOA	3	HCl
Total TAL Metals	250mL Plastic	1	HNO_3
Dissolved TAL Metals	250mL Plastic	1	HNO_3
OC Pesticides	250mL Amber	2	None

Well Information

Well Location: verified on map | Well Locked at Arrival: Yes / No

Condition of Well: Good | Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up" | Key Number To Well: —

NOTES: Sample ID = FGGM13-MW1R(101714)

DTW > 21.37 = Depth to DTW > top of pump

1015 pump off - well dry - return recharge

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

10/17/14 @ 1315 - well not recharging - collect sample by purging/hand bailing
• able to ~~purge~~ SM collect VOCs, 1 pesticide bottle, 1 total TAL metals with pump

ARCADIS

Groundwater Sampling Form

Project No. GP09MEAD.PEST.MD001

Well ID MW-2R

Date 10/17/14

Weather Sunny, ~55°F

Project Name/Location Pesticide Shop/ Fort Meade, MD

Well Material ✓ PVC / SS / Other

Measuring Pt. Description TOC

Screen Setting (ft-bmp) 20-30

Casing Diameter (in.) 2"

Total Depth (ft-bmp) 29.83

Static Water Level (ft-bmp) 16.65

Water Column in Well 23.18

Gallons in Well ~3.71

Calc.Gallons Purged 2.58

Pump Intake (ft-bmp) ~25

Purge Method: Centrifugal / Submersible Bladder / Disp. Bailer / Other

Sample Method Low Flow

Gallons Purged ~2.5

MP Elevation —

Pump On/Off 0840/1004

Sample Time: Label 0950

Replicate/ Code No. —

Sampled by Sarah Matteson / Anna King

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft) TOC	Gallons Purged	pH	Cond. (µmhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
0845	5	150	18.01		6.27	0.746	681NU	2.69	16.92	18.1	lt brown	None
0850	10	150	18.20		6.21	0.745	729NU	2.30	17.07	18.3	"	"
0855	15	150	18.50		6.20	0.749	736NU	2.11	17.23	16.5	"	"
0900	20	150	18.58		6.19	0.753	700NU	2.08	17.39	17.2	"	"
0905	25	150	18.68		6.17	0.759	698NU	2.02	17.50	18.0		
0910	30	150	18.80		6.18	0.760	644NU	1.43	17.61	16.9	"	"
0915	35	150	18.91		6.19	0.760	258NU	1.96	17.71	15.0	"	"
0920	40	150	19.05		6.22	0.758	157	1.98	17.78	13.5	"	"
0925	45	150	19.04		6.24	0.756	152	1.99	17.83	10.4	"	"
0930	50	150	19.28		6.26	0.754	119	2.01	17.46	8.2	"	"
0935	55	150	19.43		6.29	0.750	84.2	2.00	18.01	5.4	cloudy	"
0940	60	150	19.54	↓	6.31	0.747	62.9	1.93	18.06	1.2	"	"
0945	65	150	19.62	2.58	6.32	0.744	46.1	1.89	18.10	-0.2	"	"

Constituents Sampled	Container	Number	Preservative
VOCs	40mL VOA	3	HCl
Total TAL Metals	250mL Plastic	1	HNO3
Dissolved TAL Metals	250mL Plastic	1	HNO3
OC Pesticides	250mL Amber	2	None
Dissolved Gasses (methane, ethane, ethene)	40mL VOA	2	HCl
Total Organic Carbon	40mL Amber	2	H3PO4
Dissolved Organic Carbon	40mL Amber	2	None

Well Information

Well Location: verified on map

Condition of Well: Good

Well Completion: (Flush Mount) / Stick Up

Well Locked at Arrival: (Yes) / No

Well Locked at Departure: (Yes) / No

Key Number To Well: —

NOTES: Sample ID= FGGM13-MW2R(101714)

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; (2" = 0.16); 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

ARCADIS

Groundwater Sampling Form

Project No. GP09MEAD.PEST.MD001 | Well ID MW-3R | Date 10/17/14

Project Name/Location Pesticide Shop/ Fort Meade, MD | Weather

Measuring Pt. Description | Screen Setting (ft-bmp) 17-27 | Casing Diameter (in.) 2" | Well Material X PVC ___ SS ___ Other

Total Depth (ft-bmp) 27.37 | Static Water Level (ft-bmp) 18.32 | Water Column in Well | Gallons in Well

Calc.Gallons Purged 5.28 | Pump Intake (ft-bmp) ~23ft | Purge Method: Centrifugal ___ Submersible Bladder ___ Disp. Bailer ___ Other ___ | Sample Method Low Flow

Gallons Purged | MP Elevation

Sample Time: Label D15 | Replicate/ Code No. MS/MSD | Pump On/Off 0845/1035

Sampled by Sarah Matteson / Anna King

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft) TOC	Gallons Purged	pH	Cond. (µmhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
0850	0	250	18.36		5.90	0.792	over range	5.19	16.30	208.3	turbid, tan	none
0855	5	250	18.36		5.84	0.760	over range	4.68	16.12	191.4		
0900	10	250	18.36		5.83	0.752	over range	4.65	16.19	181.4		
0905	15	250	18.36		5.82	0.754	830	4.53	16.24	176.8		
0910	20	250	18.36		5.81	0.761	468	4.29	16.25	171.6		
0915	25	250	18.36		5.82	0.757	316	4.28	16.30	168.4		
0920	30	250	18.36		5.82	0.752	192	4.32	16.32	164.0		
0925	35	250	18.36		5.83	0.749	140	4.37	16.39	160.8	mostly clear	none
0930	40	250	18.36		5.83	0.744	93.9	4.44	16.43	156.0		
0935	45	250	18.37		5.83	0.742	82.6	4.44	16.47	152.2		
0940	50	250	18.37		5.84	0.738	58.7	4.52	16.51	147.5		
0945	55	250	18.38		5.84	0.735	53.1	4.54	16.64	144.1		
0950	60	250	18.37		5.85	0.735	49.9	4.43	16.95	141.5		

Constituents Sampled	Container	Number	Preservative
VOCs	40mL VOA	3	HCl
Total TAL Metals	250mL Plastic	1	HNO_3
Dissolved TAL Metals	250mL Plastic	1	HNO_3
OC Pesticides	250mL Amber	2	None

Well Information

Well Location: verified on map | Well Locked at Arrival: (Yes) / No

Condition of Well: good | Well Locked at Departure: (Yes) / No

Well Completion: (Flush Mount) / Stick Up | Key Number To Well:

NOTES:

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

ARCADIS

Groundwater Sampling Form

Project No. GP09MEAD.PEST.MD001 | Well ID MN-3R | Date

Project Name/Location Pesticide Shop/ Fort Meade, MD | Weather

Measuring Pt. Description | Screen Setting (ft-bmp) 17-27 | Casing Diameter (in.) 2" | Well Material X PVC ___ SS ___ Other

Total Depth (ft-bmp) 27.37 | Static Water Level (ft-bmp) 18.32 | Water Column in Well | Gallons in Well

Calc.Gallons Purged | Pump Intake (ft-bmp) ~23 ft | Purge Method: Centrifugal ___ Submersible Bladder ___ Disp. Bailer ___ Other ___ | Sample Method Low Flow

Gallons Purged | MP Elevation

Sample Time: Label 1015 | Replicate/ Code No. MS/MSD | Pump On/Off 845/1025

Sampled by Sarah Matteson / Anna King

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft) TOC	Gallons Purged	pH	Cond. (µmhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
0955	65	250	18.37	↓	5.84	0.738	52.5	4.49	16.87	138.0	~~[illegible]~~ clear	none
1000	70	250	18.37	↓	5.85	0.736	46.1	4.53	16.88	134.4	↓	↓
1005	75	250	18.37	↓	5.85	0.734	44.0	4.53	16.88	129.6	↓	↓
1010	80	250	18.37	5.28	5.85	0.732	40.4	4.52	16.86	126.9	↓	↓

Constituents Sampled	Container	Number	Preservative
VOCs	40mL VOA	3	HCl
Total TAL Metals	250mL Plastic	1	HNO_3
Dissolved TAL Metals	250mL Plastic	1	HNO_3
OC Pesticides	250mL Amber	2	None

Well Information

Well Location: verified on map | Well Locked at Arrival: Yes / No

Condition of Well: good | Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up | Key Number To Well:

NOTES:

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

ARCADIS

Groundwater Sampling Form

Project No. GP09MEAD.PEST.MD001 | Well ID MW-4R | Date 10/16/14

Project Name/Location Pesticide Shop/ Fort Meade, MD | Weather Overcast, 60°F

Measuring Pt. Description | Screen Setting (ft-bmp) 20-30 | Casing Diameter (in.) 2 | Well Material X PVC ___ SS ___ Other

Total Depth (ft-bmp) 29.69 | Static Water Level (ft-bmp) 19.58 | Water Column in Well | Gallons in Well

Calc.Gallons Purged 6.34 | Pump Intake (ft-bmp) ~26 ft | Purge Method: Centrifugal ___ Submersible Bladder ___ Disp. Bailer ___ Other ___ | Sample Method Low Flow

Gallons Purged | MP Elevation

Sample Time: Label 1155 | Replicate/ Code No. DUP01@1200 | Pump On/Off 0940/1200

Sampled by Sarah Matteson / Anna King

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft) TOC	Gallons Purged	pH	Cond. (µmhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
0950	0	200	19.65		5.60	0.393	over-range	18.74	17.03	200.3	tan/muddy	none - turbid
0955	5	200	19.66		5.62	0.389	956	7.22	16.94	194.2		
1000	10	200	19.66		5.62	0.386	688	7.02	16.91	192.2		
1005	15	200	19.66		5.60	0.381	565	6.95	16.91	188.7		
1010	20	200	19.66		5.60	0.379	430	6.96	16.90	186.1		
1015	25	200	19.65		5.59	0.378	287	6.93	16.91	182.7		
1020	30	200	19.65		5.58	0.377	188	6.88	16.94	179.9	colorless	none
1025	35	200	19.65		5.59	0.380	138	6.84	16.97	177.4		
1030	40	200	19.65		5.60	0.382	110	6.84	16.97	176.0		
1035	45	200	19.65		5.60	0.384	91.6	6.87	16.98	173.6		
1040	50	200	19.65		5.60	0.385	85.1	6.77	16.97	172.7		
1045	55	200	19.65		5.60	0.385	77.1	6.75	16.97	171.0		
1050	60	200	19.65	✓	5.59	0.386	80.0	6.78	16.97	169.8		

Constituents Sampled	Container	Number	Preservative
VOCs	40mL VOA	3	HCl
Total TAL Metals	250mL Plastic	1	HNO_3
Dissolved TAL Metals	250mL Plastic	1	HNO_3
OC Pesticides	250mL Amber	2	None

Well Information

Well Location: verified on map | Well Locked at Arrival: (Yes) / No

Condition of Well: good | Well Locked at Departure: (Yes) / No

Well Completion: (Flush Mount) / Stick Up | Key Number To Well:

NOTES:

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

ARCADIS

Groundwater Sampling Form

Project No. GP09MEAD.PEST.MD001

Well ID MW4R

Date

Project Name/Location Pesticide Shop/ Fort Meade, MD

Weather

Measuring Pt. Description

Screen Setting (ft-bmp)

Casing Diameter (in.) 2

Well Material X PVC ___ SS ___ Other

Total Depth (ft-bmp)

Static Water Level (ft-bmp)

Water Column in Well

Gallons in Well

Calc.Gallons Purged

Pump Intake (ft-bmp) ~26ft

Purge Method: Centrifugal ___ Submersible Bladder ___ Disp. Bailer ___ Other ___

Sample Method Low Flow

Gallons Purged

MP Elevation

Pump On/Off 0940/1200

Sample Time: Label 1155

Replicate/ Code No.

Sampled by Sarah Matteson / Anna King

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft) TOC	Gallons Purged	pH	Cond. (µmhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
1055	65	200	19.65		5.60	0.388	74.8	6.88	16.99	168.0	colorless mostly clear	none
1100	70	200	19.65		5.60	0.388	71.0	6.77	17.00	166.7		
1105	75	200	19.65		5.59	0.387	67.7	6.78	17.03	164.5		
1110	80	200	19.65		5.59	0.386	66.1	6.77	17.03	163.3		
1115	85	200	19.65		5.59	0.386	65.9	6.72	17.04	162.2		
1120	90	200	19.65		5.59	0.386	62.4	6.78	17.01	160.5		
1125	95	200	19.65		5.59	0.386	64.3	6.76	17.00	160.8		
1130	100	200	19.65		5.60	0.387	63.6	6.72	17.01	159.0		
1135	105	200	19.65		5.59	0.386	60.0	6.70	17.02	158.0		
1140	110	200	19.65		5.60	0.387	63.7	6.73	17.01	157.0		
1145	115	200	19.65		5.60	0.387	63.0	6.73	17.00	156.1		
1150	120	200	19.65	6.34	5.60	0.387	62.2	6.64	17.01	155.6		

Constituents Sampled	Container	Number	Preservative
VOCs	40mL VOA	3	HCl
Total TAL Metals	250mL Plastic	1	HNO_3
Dissolved TAL Metals	250mL Plastic	1	HNO_3
OC Pesticides	250mL Amber	2	None

Well Information

Well Location:

Condition of Well:

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Key Number To Well:

NOTES:

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

ARCADIS

Groundwater Sampling Form

Project No. GP09MEAD.PEST.MD001

Well ID MW-5

Date 10/16/14

Project Name/Location Pesticide Shop/ Fort Meade, MD

Weather Partly Cloudy, ~65°F

Measuring Pt. Description TOC

Screen Setting (ft-bmp) 24.3-34.3

Casing Diameter (in.) 2"

Well Material ✓ PVC ___ SS ___ Other

Total Depth (ft-bmp) 34.45

Static Water Level (ft-bmp) 18.16

Water Column in Well 16.29

Gallons in Well ~2.61

Calc. Gallons Purged 3.17

Pump Intake (ft-bmp) ~29.5

Purge Method: Centrifugal ___ Submersible Bladder ___ Disp. Bailer ___ Other ___

Sample Method Low Flow

Gallons Purged ~3.5

MP Elevation —

Pump On/Off 1555/1708

Sample Time: Label 1700

Replicate/ Code No. —

Sampled by Sarah Matteson / Anna King

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft) TOC	Gallons Purged	pH	Cond. (µmhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
1600	5	200	18.20		5.24	0.880	1024AU	8.71	17.26	21.6	Brown	None
1605	10	200	18.18		5.27	0.860	604AU	8.31	17.32	20.4	"	"
1610	15	200	18.18		5.32	0.853	189	8.55	17.31	19.9	lt brown	"
1615	20	200	18.18		5.33	0.861	169	8.79	17.24	19.5	"	"
1620	25	200	18.18		5.33	0.880	149	8.99	17.17	19.5	"	"
1625	30	200	18.18		5.32	0.892	113	9.02	17.09	19.5	"	"
1630	35	200	18.18		5.30	0.910	85.3	9.25	17.05	19.7	cloudy	"
1635	40	200	18.18		5.29	0.922	74.4	9.39	17.02	19.8	"	"
1640	45	200	18.18		5.28	0.931	57.7	9.51	16.95	19.6	"	"
1645	50	200	18.18		5.27	0.942	51.2	9.61	16.93	19.9	"	"
1650	55	200	18.18		5.26	0.948	40.2	9.70	16.91	19.7	"	"
1655	60	200	18.18	3.17	5.26	0.955	37.6	9.73	16.89	19.7	clear	"
Sample Collected												

Constituents Sampled	Container	Number	Preservative
VOCs	40mL VOA	3	HCl
Total TAL Metals	250mL Plastic	1	HNO_3
Dissolved TAL Metals	250mL Plastic	1	HNO_3
OC Pesticides	250mL Amber	2	None

Well Information

Well Location: verified on map

Well Locked at Arrival: Yes / No

Condition of Well: Fair - missing bolts

Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up

Key Number To Well: —

NOTES: Sample ID - FGG-M13-MW5(10/6/14)

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No. GP09MEAD.PEST.MD001 | Well ID MW-6 | Date 10/16/14

Project Name/Location Pesticide Shop/ Fort Meade, MD | Weather

Measuring Pt. Description | Screen Setting (ft-bmp) 14.4-24.4 | Casing Diameter (in.) 2 | Well Material X PVC ___ SS ___ Other

Total Depth (ft-bmp) 24.57 | Static Water Level (ft-bmp) 6.22 | Water Column in Well | Gallons in Well

Calc.Gallons Purged ~2.64 | Pump Intake (ft-bmp) ~19 ft | Purge Method: Centrifugal ___ Submersible Bladder ___ Disp. Bailer ___ Other ___ | Sample Method Low Flow

Gallons Purged | MP Elevation

Sample Time: Label 1335 | Replicate/ Code No. — | Pump On/Off 1245/1340

Sampled by Sarah Matteson / Anna King

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft) TOC	Gallons Purged	pH	Cond. (µmhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
1250	0	250	6.23		5.68	0.360	205	7.49	16.90	153.7	mostly clear	none
1255	5	250	6.27		5.58	0.364	150	7.38	16.82	155.6		
1300	10	250	6.27		5.54	0.364	123	7.24	16.82	157.0		
1305	15	250	6.27		5.52	0.367	83.0	7.08	16.82	158.0		
1310	20	250	6.26		5.50	0.368	73.9	7.10	16.80	158.1		
1315	25	250	6.26		5.49	0.371	52.7	7.03	16.81	157.7		
1320	30	250	6.26		5.50	0.376	43.7	6.97	16.80	157.0		
1325	35	250	6.26		5.49	0.380	37.6	6.93	16.81	155.6		
1330	40	250	6.25	2.64	5.49	0.380	36.2	6.85	16.80	154.9		
~~1335~~	~~45~~											

Constituents Sampled	Container	Number	Preservative
VOCs	40mL VOA	3	HCl
Total TAL Metals	250mL Plastic	1	HNO_3
Dissolved TAL Metals	250mL Plastic	1	HNO_3
OC Pesticides	250mL Amber	2	None

Well Information

Well Location: verified on map | Well Locked at Arrival: Yes / No

Condition of Well: good | Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up | Key Number To Well:

NOTES:

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

ARCADIS

Groundwater Sampling Form

Project No. GP09MEAD.PEST.MD001

Well ID MW-7

Date 10/16/14

Project Name/Location Pesticide Shop/ Fort Meade, MD

Weather Cloudy, ~60°F

Measuring Pt. Description TOC

Screen Setting (ft-bmp) 11.9-21.9

Casing Diameter (in.) 2"

Well Material ✗ PVC / SS / Other

Total Depth (ft-bmp) 21.37

Static Water Level (ft-bmp) 4.28

Water Column in Well 17.09

Gallons in Well ~2.73

Calc. Gallons Purged 10.96

Pump Intake (ft-bmp) ~17

Purge Method: Centrifugal / Submersible Bladder / Disp. Bailer / Other

Sample Method Low Flow

Gallons Purged ~11

MP Elevation —

Pump On/Off 1105/

Sample Time: Label 1310

Replicate/ Code No. —

Sampled by Sarah Matteson / Anna King

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft) TOC	Gallons Purged	pH	Cond. (µmhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
1110	5	300	3.65		4.88	0.328	out of range	8.23	17.27	31.6	Brown	none
1115	10	300	3.87		4.91	0.318	"	8.83	17.25	29.1	"	"
1120	15	300	3.93		4.92	0.315	"	8.75	17.23	29.0	"	"
1125	20	300	3.99		4.93	0.313	"	8.66	17.24	29.2	"	"
1130	25	300	4.03		4.94	0.311	"	8.46	17.25	29.2	"	"
1135	30	300	4.04		4.93	0.310	"	8.35	17.26	29.0	"	"
1140	35	300	~~4.04~~ 3.98		4.93	0.309	"	8.23	17.25	28.4	"	"
1145	40	300	3.94		4.93	0.310	3253AU	8.12	17.23	27.9	"	"
1150	45	300	3.95		4.90	0.311	3382AU	7.91	17.22	27.8	"	"
1155	50	300	3.95		4.90	0.311	3027AU	7.85	17.21	27.6	"	"
1200	55	300	3.88		4.92	0.314	2858AU	7.75	17.20	27.5	"	"
1205	60	300	3.88	↓	4.84	0.315	2362AU	7.68	17.16	26.5	"	"
1210	65	300	3.88	5.5	4.84	0.315	2176AU	7.65	17.15	26.1	"	"

Constituents Sampled	Container	Number	Preservative
VOCs	40mL VOA	3	HCl
Total TAL Metals	250mL Plastic	1	HNO_3
Dissolved TAL Metals	250mL Plastic	1	HNO_3
OC Pesticides	250mL Amber	2	None

Well Information

Well Location: Verified on map

Condition of Well: Fair - Missing bolts

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Key Number To Well: —

NOTES: Sample ID = FGGM13-MW7(101614)

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

ARCADIS

Groundwater Sampling Form

Project No. GP09MEAD.PEST.MD001 Well ID MW-7 Date 10/16/14

Project Name/Location Pesticide Shop/ Fort Meade, MD Weather

Measuring Pt. Description | Screen Setting (ft-bmp) | Casing Diameter (in.) 1 | Well Material ___ PVC ___ SS ___ Other

Total Depth (ft-bmp) | Static Water Level (ft-bmp) | Water Column in Well | Gallons in Well

Calc.Gallons Purged | Pump Intake (ft-bmp) see page | Purge Method: Centrifugal ___ Submersible Bladder | Sample Method Low Flow

Gallons Purged | MP Elevation | Disp. Bailer ___ Other | Pump On/Off

Sample Time: Label | Replicate/ Code No. | Sampled by Sarah Matteson / Anna King

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft) TOC	Gallons Purged	pH	Cond. (µmhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
1215	70	400	3.74		4.84	0.316	226 NU	7.73	17.11	25.9	Brown	None
1220	75	400	3.74		4.83	0.316	237 NU	7.73	17.09	25.2	"	"
1225	80	400	3.34		4.89	0.302	334 NU	7.81	17.12	24.0	"	"
1230	85	400	3.34		4.87	0.301	184 NU	7.72	17.11	25.0	"	"
1235	90	400	3.78		4.87	0.303	180 NU	7.72	17.09	23.7	"	"
1240	95	400	4.25		4.88	0.304	166 NU	7.73	17.11	23.4	"	"
1245	100	400	4.28		4.98	0.303	166 NU	9.63	17.18	23.7	"	"
1250	105	400	4.28		5.03	0.301	152 NU	9.76	17.19	22.8	"	"
1255	110	400	4.28		5.03	0.299	124 NU	9.82	17.22	22.1	"	"
1300	115	400	4.28		5.03	0.298	89 NU	9.46	17.27	21.7	"	"
1305	120	400	4.28	510.96	5.01	0.296	65 NU	9.30	17.27	21.6	"	"
1310			Sample collected									

Constituents Sampled	Container	Number	Preservative
VOCs	40mL VOA	3	HCl
Total TAL Metals	250mL Plastic	1	HNO_3
Dissolved TAL Metals	250mL Plastic	1	HNO_3
OC Pesticides	250mL Amber	2	None

Well Information

Well Location: See page 1 Well Locked at Arrival: Yes / No

Condition of Well: Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well:

NOTES:

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No. GP09MEAD.PEST.MD001 | Well ID MW-8 | Date 10/16/14

Project Name/Location Pesticide Shop/ Fort Meade, MD | Weather Cloudy, ~60°F

Measuring Pt. Description TOC | Screen Setting (ft-bmp) 12.1-22.1 | Casing Diameter (in.) 2" | Well Material X PVC ___ SS ___ Other

Total Depth (ft-bmp) 22.20 | Static Water Level (ft-bmp) 5.58 | Water Column in Well 16.62 | Gallons in Well ~2.66

Calc. Gallons Purged 3.70 | Pump Intake (ft-bmp) ~17 | Purge Method: Centrifugal ___ Submersible Bladder ___ Disp. Bailer ___ Other ___ | Sample Method Low Flow

Gallons Purged ~4 | MP Elevation —

Sample Time: Label 1510 | Replicate/ Code No. — | Pump On/Off 1355/

Sampled by Sarah Matteson / Anna King

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft) TOC	Gallons Purged	pH	Cond. (µmhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
1400	5	200	5.58		4.94	0.342	244 NTU	7.43	14.75	19.7	Brown	none
1405	10	200	5.58		4.78	0.346	141 NTU	7.78	14.68	32.6	"	"
1410	15	200	5.58		4.82	0.346	106 NTU	8.21	14.70	31.8	"	"
1415	20	200	5.58		4.88	0.344	82 NTU	8.31	14.73	31.2	"	"
1420	25	200	5.58		4.91	0.344	63 NTU	8.24	14.76	31.4	"	"
1425	30	200	5.58		4.96	0.344	230 NTU	8.38	14.72	29.1	"	"
1430	35	200	5.58		4.99	0.344	173	8.43	14.71	27.6	Light Brown	"
1435	40	200	5.58		5.00	0.344	128	8.47	14.72	26.4	"	"
1440	45	200	5.58		5.02	0.344	100.2	8.52	14.68	24.9	"	"
1445	50	200	5.57		5.03	0.345	87.9	8.56	14.65	23.7	"	"
1450	55	200	5.57		5.03	0.345	71.3	8.64	14.65	23.1	cloudy	"
1455	60	200	5.~~04~~ 57		5.04	0.345	64.0	8.57	14.67	22.3	cloudy	"
1500	65	200	5.57	✓	5.05	0.346	59.0	8.67	14.67	21.3	cloudy	"
1505	70	200	5.57	3.70	5.06	0.346	48.8	8.73	14.65	20.7	"	"

Constituents Sampled	Container	Number	Preservative
VOCs	40mL VOA	3	HCl
Total TAL Metals	250mL Plastic	1	HNO_3
Dissolved TAL Metals	250mL Plastic	1	HNO_3
OC Pesticides	250mL Amber	2	None

Well Information

Well Location: Verified on map | Well Locked at Arrival: Yes / No

Condition of Well: Fair - Missing bolts | Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up | Key Number To Well:

NOTES: Sample ID = FGGM13-MW8(10/6/14)

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

ARCADIS

Groundwater Sampling Form

Project No. GP09MEAD.PEST.MD001 | Well ID MW-9 | Date 10/16/14

Project Name/Location Pesticide Shop/ Fort Meade, MD | Weather

Measuring Pt. Description | Screen Setting (ft-bmp) 20-30 | Casing Diameter (in.) 2" | Well Material X PVC / SS / Other

Total Depth (ft-bmp) 29.65 | Static Water Level (ft-bmp) 13.04 | Water Column in Well | Gallons in Well

Calc.Gallons Purged ~4.16 | Pump Intake (ft-bmp) ~24 ft | Purge Method: Centrifugal / Submersible Bladder / Disp. Bailer / Other | Sample Method Low Flow

Gallons Purged | MP Elevation | Pump On/Off 1415/1540

Sample Time: Label 1535 | Replicate/ Code No. — | Sampled by Sarah Matteson / Anna King

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft) TOC	Gallons Purged	pH	Cond. (µmhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
1420	0	225	13.13		5.54	0.571	over range	7.04	17.73	149.2	tan/turbid	none
1425	5	225	13.10		5.39	0.636	over range	5.47	17.28	150.2		
1430	10	225	13.10		5.39	0.645	over range	5.34	17.13	148.7		
1435	15	225	13.10		5.41	0.657	583	5.41	16.95	144.1		
1440	20	225	13.10		5.42	0.662	451	5.03	16.82	142.5		
1445	25	225	13.09		5.43	0.668	266	4.90	16.80	139.9		
1450	30	225	13.10		5.44	0.671	180	4.84	16.80	138.3		
1455	35	225	13.10		5.45	0.673	140	4.73	16.78	136.8	mostly clear	none
1500	40	225	13.10		5.45	0.675	108	4.69	16.77	135.2		
1505	45	225	13.09		5.45	0.677	80.6	4.70	16.70	134.0		
1510	50	225	13.09		5.45	0.676	66.9	4.71	16.69	133.3		
1515	55	225	13.09		5.46	0.676	61.1	4.64	16.62	132.6		
1520	60	225	13.09		5.46	0.676	49.6	4.68	16.60	132.5		

Constituents Sampled	Container	Number	Preservative
VOCs	40mL VOA	3	HCl
Total TAL Metals	250mL Plastic	1	HNO_3
Dissolved TAL Metals	250mL Plastic	1	HNO_3
OC Pesticides	250mL Amber	2	None

Well Information

Well Location: verified on map | Well Locked at Arrival: Yes / No

Condition of Well: good | Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up | Key Number To Well:

NOTES:

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

ARCADIS

Groundwater Sampling Form

Project No. GP09MEAD.PEST.MD001 | Well ID MW-9 | Date 10/16/14

Project Name/Location Pesticide Shop/ Fort Meade, MD | Weather

Measuring Pt. Description | Screen Setting (ft-bmp) 20-30 | Casing Diameter (in.) 2" | Well Material X PVC ___ SS ___ Other

Total Depth (ft-bmp) 29.65 | Static Water Level (ft-bmp) 13.04 | Water Column in Well | Gallons in Well

Calc.Gallons Purged | Pump Intake (ft-bmp) ~24ft | Purge Method: Centrifugal ___ Submersible Bladder ___ Disp. Bailer ___ Other ___ | Sample Method Low Flow

Gallons Purged | MP Elevation

Sample Time: Label 1535 | Replicate/ Code No. — | Pump On/Off 1415/1540

Sampled by Sarah Matteson / Anna King

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft) TOC	Gallons Purged	pH	Cond. (µmhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
1525	65	225	13.10	↓	5.46	0.676	44.5 ~~0.676~~	4.64	16.55	132.4	clear	none
1530	70	225	13.10	4.6	5.46	0.675	37.1	4.67	16.52	132.5	↓	↓

Constituents Sampled	Container	Number	Preservative
VOCs	40mL VOA	3	HCl
Total TAL Metals	250mL Plastic	1	HNO_3
Dissolved TAL Metals	250mL Plastic	1	HNO_3
OC Pesticides	250mL Amber	2	None

Well Information

Well Location:

Condition of Well:

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Key Number To Well:

NOTES:

Well Casing Volumes

Gallons/Foot 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

Environmental Analysis Request/Chain of Custody

eurofins

Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only
Acct. # _____ Group # _____ Sample # _____
Instructions on reverse side correspond with circled numbers.

Page 1 of 2

358080

1 Client Information

Client: ARCADIS
Acct. #:
Project Name/#: Ft Meade Pesticide Shop/GPOYMEADPEST
PWSID #:
Project Manager: Tim Llewellyn
P.O. #:
Sampler: Sarah Matteson
Quote #:
Name of state where samples were collected: Maryland

4 Matrix: Sediment ☐ Soil ☐ Ground ☒ Potable ☐ Surface ☐ NPDES ☐ Water ☒ Other: ____

5 Analysis Requested — Preservation Codes

For Lab Use Only
FSC: _____
SCR#: _____

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other H_3PO_4

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Total # of Containers	VOCs 8260B (H)	Total TAL Metals (N)	DISS TAL Metals (N)	OC Pesticides 8081A (N)	Methane, Ethane, Ethene (H)	TOC (O)	Diss Organic Carbon	6 Remarks
FGGM13-MW1R(101714)	10/17/14	1315	X		7	X	X	X	X				
FGGM13-MW2R(101714)	10/17/14	0950	X		13	X	X	X	X	X	X	X	
FGGM13-MW3R(101714)	10/17/14	1015	X		21	X	X	X	X				
FGGM13-MW4R(101614)	10/16/14	1155	X		7	X	X	X	X				MS/MSD
FGGM13-MW5(101614)	10/16/14	1700	X		7	X	X	X	X				
FGGM13-MW6(101614)	10/16/14	1335	X		7	X	X	X	X				
FGGM13-MW7(101614)	10/16/14	1310	X		7	X	X	X	X				
FGGM13-MW8(101614)	10/16/14	1510	X		7	X	X	X	X				
FGGM13-MW9(101614)	10/16/14	1535	X		7	X	X	X	X				
FGGM13-DUP01(101614)	10/16/14	1200	X		7	X	X	X	X				

7 Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: _____

E-mail address: keith.shepherd@arcadis-us.com

8 Data Package Options (circle if required)
Type I (Validation/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
Type IV (CLP SOW) MA MCP CT RCP

Relinquished by	Date	Time	Received by	Date	Time
[signature]	10/17/14	1654	[signature]	10-17-14	1654

9

EDD Required? Yes No
If yes, format: EQUIS 5
Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt _____ °C

Environmental Analysis Request/Chain of Custody

eurofins

Lancaster Laboratories Environmental

Acct. # _____ For Eurofins Lancaster Laboratories Environmental use only Group # _____ Sample # _____

Instructions on reverse side correspond with circled numbers.

Page 2 of 2

358082

1 Client Information

Client: ARCADIS

Acct. #:

Project Name/#: Ft Meade Pesticide Shop/6P09MEAD.PEST

PWSID #:

Project Manager: Jim Llewellyn

P.O. #:

Sampler: Sarah Mattkson

Quote #:

Name of state where samples were collected: Maryland

For Lab Use Only

FSC: _____

SCR#: _____

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	4 Matrix: Soil	Sediment	Potable	Ground	Water	NPDES	Surface	Other:	Total # of Containers	5 Analysis Requested / Preservation Codes: VOCs 8260B (H)	Total TAL Metals (N)	Diss TAL Metals (N)	OC Pesticides 8081A	6 Remarks
FGGM13-RB(101614)	10/16/14	1815	X						X				7	X	X	X	X	
FGGM13-TB(101714)	10/17/14	—	—						—				2	X				

7 Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: _____

E-mail address: keith.shepherd@arcadis-us.com

8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)

Type III (Reduced non-CLP) TX TRRP-13

Type IV (CLP SOW) MA MCP CT RCP

9

Relinquished by	Date	Time	Received by	Date	Time
[signature]	10/17/14	1654	[signature]	10-17-14	1654

EDD Required? Yes No

If yes, format: EQUIS 5

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt _____ °C

Annual Inspection Checklist for Land Use Evaluation
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland

Inspector: ANNA KING
Date: 10/16/14

1. Land Use Evaluation

1. Inspector walked over entire site. X Yes ____ No

Reason why not?

2. Check for <u>any</u> signs of the following conditions - note whether corrective action was taken:

Condition	Yes/No	Corrective Action Taken	Designation of Location Shown on Attached Map
Intrusive Activities	No		
Construction Activities	No		
Signs of Erosion	No		
Other	No		

3. Signs appropriately posted:

Sign noting the following (# of signs installed):	Yes/No/#	Corrective Action Taken
Digging restricted without permit ~~(4)~~ (6)	YES	NA

4. Were any visual signs of disturbance or construction activities noted during inspection? If yes, please describe in detail below: X Yes ____ No

5. Photo Log: SEE SIGN INSTALLATION PHOTOS (OCTOBER 2014)

Photo Number	Description	Direction Facing

6. Other observations:

*SILT FENCE STILL IN PLACE, REMOVAL COMPLETED NOVEMBER 2014
*

Attachment 2

Lab Reports
(Provided on CD)

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

October 29, 2014

Project: Fort Meade

Site: Fort Meade, MD

Submittal Date: 10/17/2014
Group Number: 1512018
SDG: FTM17
PO Number: GP09MEAD.PEST.MD001
State of Sample Origin: MD

Client Sample Description	Lancaster Labs (LL) #
FGGM13-MW1R(101714) Grab Groundwater	7642507
FGGM13-MW2R(101714) Grab Groundwater	7642508
FGGM13-MW3R(101714) Grab Groundwater	7642509
FGGM13-MW3R(101714)MS Grab Groundwater	7642510
FGGM13-MW3R(101714)MSD Grab Groundwater	7642511
FGGM13-MW3R(101714)DUP Grab Groundwater	7642512
FGGM13-MW4R(101614) Grab Groundwater	7642513
FGGM13-MW5(101614) Grab Groundwater	7642514
FGGM13-MW6(101614) Grab Groundwater	7642515
FGGM13-MW7(101614) Grab Groundwater	7642516
FGGM13-MW8(101614) Grab Groundwater	7642517
FGGM13-MW9(101614) Grab Groundwater	7642518
FGGM13-DUP01(101614) Grab Groundwater	7642519
FGGM13-RB(101614) Grab Water	7642520
FGGM13-TB(101714) Water	7642521

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

ELECTRONIC COPY TO	ARCADIS	Attn: Kenneth Varley
ELECTRONIC COPY TO	ARCADIS	Attn: Keith Shepherd

Respectfully Submitted,

Katherine A. Klinefelter

Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Fort Meade
LL Group #: 1512018

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

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

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

SW-846 8260B 25mL purge, GC/MS Volatiles

Sample #s: 7642507

Reporting limits were raised due to sample foaming.

Batch #: C142971AA (Sample number(s): 7642508-7642511, 7642515-7642521 UNSPK: 7642509)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: cis-1,2-Dichloroethene

SW-846 8081B, Pesticides/PCBs

Sample #s: 7642510, 7642511

"P" - A disparity of >40% between the primary and confirmatory analysis occurred. Due to suspected interference, the lower result was reported.

Sample #s: 7642508, 7642509, 7642518

"V" - Reporting limits were raised due to interference from the sample matrix.
"P" - A disparity of >40% between the primary and confirmatory analysis occurred. Due to suspected interference, the lower result was reported.

Sample #s: 7642516

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.
There was insufficient sample amount for a 3rd extraction.

Sample #s: 7642513, 7642519

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.
"V" - Reporting limits were raised due to interference from the sample matrix.
"P" - A disparity of >40% between the primary and confirmatory analysis occurred. Due to suspected interference, the lower result was reported.

Batch #: 142940004A (Sample number(s): 7642507-7642511, 7642513-7642520 UNSPK: 7642509)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Alpha Chlordane, Gamma Chlordane, Alpha BHC, Heptachlor Epoxide, p,p-DDE, p,p-DDD

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7642508, 7642510, 7642511, 7642513, 7642516, 7642519, MS, MSD

RSKSOP-175 modified, GC Miscellaneous

Batch #: 142970034A (Sample number(s): 7642508 UNSPK: 7642508)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Methane

SW-846 6010C, Metals

Batch #: 142940636001 (Sample number(s): 7642507-7642520 UNSPK: 7642509 BKG: 7642509)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Aluminum, Sodium

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Chromium, Manganese, Zinc

SW-846 6020A, Metals

Batch #: 142940639001A (Sample number(s): 7642507-7642520 UNSPK: 7642509 BKG: 7642509)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Antimony, Arsenic

SW-846 7470A, Metals

Batch #: 142945713001 (Sample number(s): 7642507-7642520 UNSPK: 7642509 BKG: 7642509)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Mercury

SM 5310 C-2000, Wet Chemistry

Batch #: 14295049501B (Sample number(s): 7642508 UNSPK: P641952 BKG: P641952)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Dissolved Organic Carbon

Sample Description: FGGM13-MW1R(101714) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642507
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 13:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1701 SDG#: FTM17-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	N.D.	6.0	10	2
02898	Benzene	71-43-2	N.D.	0.2	1.0	2
02898	Bromodichloromethane	75-27-4	N.D.	0.2	1.0	2
02898	Bromoform	75-25-2	N.D.	0.2	1.0	2
02898	Bromomethane	74-83-9	N.D.	0.2	1.0	2
02898	2-Butanone	78-93-3	N.D.	2.0	10	2
02898	Carbon Disulfide	75-15-0	N.D.	0.8	2.0	2
02898	Carbon Tetrachloride	56-23-5	N.D.	0.2	1.0	2
02898	Chlorobenzene	108-90-7	N.D.	0.2	1.0	2
02898	Chloroethane	75-00-3	N.D.	0.2	1.0	2
02898	Chloroform	67-66-3	N.D.	0.2	1.0	2
02898	Chloromethane	74-87-3	N.D.	0.4	1.0	2
02898	Cyclohexane	110-82-7	N.D.	0.2	1.0	2
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.4	1.0	2
02898	Dibromochloromethane	124-48-1	N.D.	0.2	1.0	2
02898	1,2-Dibromoethane	106-93-4	N.D.	0.2	1.0	2
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.2	1.0	2
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.2	1.0	2
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.2	1.0	2
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.2	1.0	2
02898	1,1-Dichloroethane	75-34-3	N.D.	0.2	1.0	2
02898	1,2-Dichloroethane	107-06-2	N.D.	0.2	1.0	2
02898	1,1-Dichloroethene	75-35-4	N.D.	0.2	1.0	2
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.2	1.0	2
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.2	1.0	2
02898	1,2-Dichloropropane	78-87-5	N.D.	0.2	1.0	2
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.2	1.0	2
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.2	1.0	2
02898	Ethylbenzene	100-41-4	N.D.	0.2	1.0	2
02898	Freon 113	76-13-1	N.D.	0.4	1.0	2
02898	2-Hexanone	591-78-6	N.D.	2.0	10	2
02898	Isopropylbenzene	98-82-8	N.D.	0.2	1.0	2
02898	Methyl Acetate	79-20-9	N.D.	0.6	2.0	2
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1.0	2
02898	4-Methyl-2-pentanone	108-10-1	N.D.	2.0	10	2
02898	Methylcyclohexane	108-87-2	N.D.	0.2	1.0	2
02898	Methylene Chloride	75-09-2	N.D.	0.4	1.0	2
02898	Styrene	100-42-5	N.D.	0.2	1.0	2
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.2	1.0	2
02898	Tetrachloroethene	127-18-4	N.D.	0.2	1.0	2
02898	Toluene	108-88-3	N.D.	0.2	1.0	2
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	1.0	2
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1.0	2
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.2	1.0	2
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.2	1.0	2
02898	Trichloroethene	79-01-6	N.D.	0.2	1.0	2
02898	Trichlorofluoromethane	75-69-4	N.D.	0.2	1.0	2
02898	Vinyl Chloride	75-01-4	N.D.	0.2	1.0	2
02898	m+p-Xylene	179601-23-1	N.D.	0.2	1.0	2
02898	o-Xylene	95-47-6	N.D.	0.2	1.0	2

*=This limit was used in the evaluation of the final result

Sample Description: FGGM13-MW1R(101714) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642507
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 13:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1701 SDG#: FTM17-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
	Reporting limits were raised due to sample foaming.					
Pesticides/PCBs		**SW-846 8081B**	**ug/l**	**ug/l**	**ug/l**	
10589	Aldrin	309-00-2	N.D.	0.0016	0.0082	1
10589	Alpha BHC	319-84-6	N.D.	0.0025	0.0082	1
10589	Beta BHC	319-85-7	N.D.	0.0028	0.0082	1
10589	Gamma BHC - Lindane	58-89-9	N.D.	0.0016	0.0082	1
10589	Alpha Chlordane	5103-71-9	N.D.	0.0025	0.0082	1
10589	Gamma Chlordane	5103-74-2	N.D.	0.0058	0.0082	1
10589	p,p-DDD	72-54-8	N.D.	0.0041	0.016	1
10589	p,p-DDE	72-55-9	N.D.	0.0041	0.016	1
10589	p,p-DDT	50-29-3	N.D.	0.0043	0.016	1
10589	Delta BHC	319-86-8	N.D.	0.0028	0.0082	1
10589	Dieldrin	60-57-1	N.D.	0.0044	0.016	1
10589	Endosulfan I	959-98-8	N.D.	0.0035	0.0082	1
10589	Endosulfan II	33213-65-9	N.D.	0.012	0.016	1
10589	Endosulfan Sulfate	1031-07-8	N.D.	0.0048	0.016	1
10589	Endrin	72-20-8	N.D.	0.0067	0.016	1
10589	Endrin Aldehyde	7421-93-4	N.D.	0.016	0.082	1
10589	Endrin Ketone	53494-70-5	N.D.	0.0041	0.016	1
10589	Heptachlor	76-44-8	N.D.	0.0016	0.0082	1
10589	Heptachlor Epoxide	1024-57-3	N.D.	0.0019	0.0082	1
10589	Methoxychlor	72-43-5	N.D.	0.025	0.082	1
10589	Toxaphene	8001-35-2	N.D.	0.25	0.82	1
Metals		**SW-846 6010C**	**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	25.3	0.337	2.00	5
07046	Barium	7440-39-3	0.0479	0.00033	0.0100	1
01750	Calcium	7440-70-2	53.8	0.167	2.00	5
07051	Chromium	7440-47-3	0.0414	0.0013	0.0300	1
07052	Cobalt	7440-48-4	0.0502	0.0010	0.0100	1
07053	Copper	7440-50-8	0.108	0.0028	0.0200	1
01754	Iron	7439-89-6	2.67	0.0334	0.400	1
01757	Magnesium	7439-95-4	13.0	0.0167	0.200	1
07058	Manganese	7439-96-5	0.202	0.00083	0.0100	1
07061	Nickel	7440-02-0	0.119	0.0016	0.0200	1
01762	Potassium	7440-09-7	7.24	0.133	1.00	1
07036	Selenium	7782-49-2	N.D.	0.0048	0.0400	1
07066	Silver	7440-22-4	N.D.	0.0018	0.0100	1
01767	Sodium	7440-23-5	374	4.18	50.0	25
07071	Vanadium	7440-62-2	N.D.	0.0019	0.0100	1
07072	Zinc	7440-66-6	0.177	0.0020	0.0400	1
		SW-846 6020A	**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	N.D.	0.00033	0.0020	1
06025	Arsenic	7440-38-2	0.0036 J	0.00082	0.0040	1
06027	Beryllium	7440-41-7	0.0020	0.000045	0.0010	1
06028	Cadmium	7440-43-9	0.0019	0.00017	0.0010	1
06035	Lead	7439-92-1	0.0130	0.000082	0.0020	1
06045	Thallium	7440-28-0	0.00020 J	0.00015	0.0010	1
		SW-846 7470A	**mg/l**	**mg/l**	**mg/l**	

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW1R(101714) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642507
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 13:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1701 SDG#: FTM17-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 7470A**		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	VOCs- 25ml Water by 8260B	SW-846 8260B 25mL purge	1	C143001AA	10/27/2014 12:23	Kerri E Legerlotz	2
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C143001AA	10/27/2014 12:23	Kerri E Legerlotz	2
10589	OC Pesticides in Water	SW-846 8081B	1	142940004A	10/22/2014 18:54	Lisa A Reinert	1
11120	Pesticide Waters Update IV Ext	SW-846 3510C	1	142940004A	10/21/2014 15:40	Kelli M Barto	1
01743	Aluminum	SW-846 6010C	1	142940636001	10/25/2014 08:40	Deborah A Krady	5
07046	Barium	SW-846 6010C	1	142940636001	10/23/2014 22:41	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	142940636001	10/25/2014 08:40	Deborah A Krady	5
07051	Chromium	SW-846 6010C	1	142940636001	10/23/2014 22:41	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	142940636001	10/23/2014 22:41	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	142940636001	10/23/2014 22:41	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010C	1	142940636001	10/23/2014 22:41	Elaine F Stoltzfus	1
01757	Magnesium	SW-846 6010C	1	142940636001	10/23/2014 22:41	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	142940636001	10/23/2014 22:41	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	142940636001	10/23/2014 22:41	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	142940636001	10/23/2014 22:41	Elaine F Stoltzfus	1
07036	Selenium	SW-846 6010C	1	142940636001	10/25/2014 08:36	Deborah A Krady	1
07066	Silver	SW-846 6010C	1	142940636001	10/23/2014 22:41	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	142940636001	10/25/2014 08:43	Deborah A Krady	25
07071	Vanadium	SW-846 6010C	1	142940636001	10/23/2014 22:41	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	142940636001	10/23/2014 22:41	Elaine F Stoltzfus	1
06024	Antimony	SW-846 6020A	1	142940639001A	10/23/2014 10:29	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	142940639001A	10/23/2014 10:29	Choon Y Tian	1
06027	Beryllium	SW-846 6020A	1	142940639001A	10/23/2014 10:29	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	142940639001A	10/23/2014 10:29	Choon Y Tian	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW1R(101714) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642507
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 13:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1701 SDG#: FTM17-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020A	1	142940639001A	10/23/2014 10:29	Choon Y Tian	1
06045	Thallium	SW-846 6020A	1	142940639001A	10/23/2014 10:29	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	142945713001	10/22/2014 06:53	Damary Valentin	1
10636	WW/TL SW846 (IV) ICP Dig (tot)	SW-846 3010A	1	142940636001	10/21/2014 23:00	Annamaria Kuhns	1
10639	ICP/MS SW846 (IV) Water Digest	SW-846 3010A modified	1	142940639001	10/21/2014 23:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	142945713001	10/22/2014 00:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

Sample Description: FGGM13-MW2R(101714) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642508
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 09:50 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1702 SDG#: FTM17-02

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l		ug/l	ug/l	
02898	Acetone	67-64-1	N.D.		3.0	5.0	1
02898	Benzene	71-43-2	2.4		0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.		0.1	0.5	1
02898	Bromoform	75-25-2	N.D.		0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.		0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.		1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.		0.4	1.0	1
02898	Carbon Tetrachloride	56-23-5	N.D.		0.1	0.5	1
02898	Chlorobenzene	108-90-7	3.5		0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.		0.1	0.5	1
02898	Chloroform	67-66-3	0.4	J	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.		0.2	0.5	1
02898	Cyclohexane	110-82-7	N.D.		0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.		0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.		0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.		0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.		0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	0.4	J	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	28		1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	0.1	J	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.		0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.1	0.5	1
02898	Ethylbenzene	100-41-4	0.2	J	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.		0.2	0.5	1
02898	2-Hexanone	591-78-6	N.D.		1.0	5.0	1
02898	Isopropylbenzene	98-82-8	0.2	J	0.1	0.5	1
02898	Methyl Acetate	79-20-9	N.D.		0.3	1.0	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.1	0.5	1
02898	4-Methyl-2-pentanone	108-10-1	N.D.		1.0	5.0	1
02898	Methylcyclohexane	108-87-2	N.D.		0.1	0.5	1
02898	Methylene Chloride	75-09-2	N.D.		0.2	0.5	1
02898	Styrene	100-42-5	N.D.		0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	53		1.0	5.0	10
02898	Toluene	108-88-3	N.D.		0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	0.3	J	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
02898	Trichloroethene	79-01-6	2.6		0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.		0.1	0.5	1
02898	m+p-Xylene	179601-23-1	N.D.		0.1	0.5	1
02898	o-Xylene	95-47-6	N.D.		0.1	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: FGGM13-MW2R(101714) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642508
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 09:50 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1702 SDG#: FTM17-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081B**		**ug/l**	**ug/l**	**ug/l**	
10589	Aldrin	309-00-2	0.035 JP	0.016	0.082	10
10589	Alpha BHC	319-84-6	0.23	0.025	0.082	10
10589	Beta BHC	319-85-7	N.D.	0.028	0.082	10
10589	Gamma BHC - Lindane	58-89-9	29	0.82	4.1	500
10589	Alpha Chlordane	5103-71-9	3.6	0.12	0.41	50
10589	Gamma Chlordane	5103-74-2	2.8	0.29	0.41	50
10589	p,p-DDD	72-54-8	1.1	0.041	0.16	10
10589	p,p-DDE	72-55-9	N.D.	0.36	0.36	10
10589	p,p-DDT	50-29-3	0.31	0.043	0.16	10
10589	Delta BHC	319-86-8	0.039 JP	0.028	0.082	10
10589	Dieldrin	60-57-1	0.63 P	0.043	0.16	10
10589	Endosulfan I	959-98-8	0.13 P	0.035	0.082	10
10589	Endosulfan II	33213-65-9	N.D.	0.12	0.16	10
10589	Endosulfan Sulfate	1031-07-8	N.D.	0.048	0.16	10
10589	Endrin	72-20-8	N.D.	0.066	0.16	10
10589	Endrin Aldehyde	7421-93-4	N.D.	0.16	0.82	10
10589	Endrin Ketone	53494-70-5	0.046 JP	0.041	0.16	10
10589	Heptachlor	76-44-8	0.22	0.016	0.082	10
10589	Heptachlor Epoxide	1024-57-3	0.41	0.019	0.082	10
10589	Methoxychlor	72-43-5	N.D.	0.25	0.82	10
10589	Toxaphene	8001-35-2	N.D.	2.5	8.2	10

"V" - Reporting limits were raised due to interference from the sample matrix.

"P" - A disparity of >40% between the primary and confirmatory analysis occurred. Due to suspected interference, the lower result was reported.

GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	**ug/l**	
07105	Ethane	74-84-0	N.D.	1.0	5.0	1
07105	Ethene	74-85-1	N.D.	1.0	5.0	1
07105	Methane	74-82-8	850	15	25	5
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	3.19	0.0674	0.400	1
07046	Barium	7440-39-3	0.0762	0.00033	0.0100	1
01750	Calcium	7440-70-2	38.9	0.167	2.00	5
07051	Chromium	7440-47-3	0.0068 J	0.0013	0.0300	1
07052	Cobalt	7440-48-4	0.0073 J	0.0010	0.0100	1
07053	Copper	7440-50-8	0.0066 J	0.0028	0.0200	1
01754	Iron	7439-89-6	19.9	0.0334	0.400	1
01757	Magnesium	7439-95-4	3.90	0.0167	0.200	1
07058	Manganese	7439-96-5	0.655	0.0042	0.0500	5
07061	Nickel	7440-02-0	0.0023 J	0.0016	0.0200	1
01762	Potassium	7440-09-7	3.46	0.133	1.00	1
07036	Selenium	7782-49-2	N.D.	0.0048	0.0400	1
07066	Silver	7440-22-4	N.D.	0.0018	0.0100	1
01767	Sodium	7440-23-5	80.1	0.835	10.0	5
07071	Vanadium	7440-62-2	0.0114	0.0019	0.0100	1
07072	Zinc	7440-66-6	0.0141 J	0.0020	0.0400	1
	SW-846 6020A		**mg/l**	**mg/l**	**mg/l**	

*=This limit was used in the evaluation of the final result

Sample Description: FGGM13-MW2R(101714) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642508
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 09:50 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1702 SDG#: FTM17-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020A**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	N.D.	0.00033	0.0020	1
06025	Arsenic	7440-38-2	0.826	0.0041	0.0200	5
06027	Beryllium	7440-41-7	0.00010 J	0.000045	0.0010	1
06028	Cadmium	7440-43-9	N.D.	0.00017	0.0010	1
06035	Lead	7439-92-1	0.0030	0.000082	0.0020	1
06045	Thallium	7440-28-0	N.D.	0.00015	0.0010	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
Wet Chemistry	**SM 5310 C-2000**		**mg/l**	**mg/l**	**mg/l**	
07547	Dissolved Organic Carbon	n.a.	5.3	0.50	1.0	1
00273	Total Organic Carbon	n.a.	7.0	0.50	1.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	VOCs- 25ml Water by 8260B	SW-846 8260B 25mL purge	1	C142971AA	10/25/2014 05:22	Sara E Johnson	1
02898	VOCs- 25ml Water by 8260B	SW-846 8260B 25mL purge	1	C142971AA	10/25/2014 05:45	Sara E Johnson	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C142971AA	10/25/2014 05:22	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C142971AA	10/25/2014 05:45	Sara E Johnson	10
10589	OC Pesticides in Water	SW-846 8081B	1	142940004A	10/22/2014 22:00	Lisa A Reinert	10
10589	OC Pesticides in Water	SW-846 8081B	1	142940004A	10/23/2014 16:58	Lisa A Reinert	500
10589	OC Pesticides in Water	SW-846 8081B	1	142940004A	10/23/2014 17:11	Lisa A Reinert	50
11120	Pesticide Waters Update IV Ext	SW-846 3510C	1	142940004A	10/21/2014 15:40	Kelli M Barto	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	142970034A	10/24/2014 19:34	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	142970034A	10/24/2014 19:52	Elizabeth J Marin	5
01743	Aluminum	SW-846 6010C	1	142940636001	10/23/2014 22:45	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010C	1	142940636001	10/23/2014 22:45	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	142940636001	10/25/2014 08:50	Deborah A Krady	5
07051	Chromium	SW-846 6010C	1	142940636001	10/23/2014 22:45	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	142940636001	10/23/2014 22:45	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	142940636001	10/23/2014 22:45	Elaine F Stoltzfus	1

*=This limit was used in the evaluation of the final result

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

Analysis Report

Sample Description: FGGM13-MW2R(101714) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642508
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 09:50 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1702 SDG#: FTM17-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010C	1	142940636001	10/23/2014 22:45	Elaine F Stoltzfus	1
01757	Magnesium	SW-846 6010C	1	142940636001	10/23/2014 22:45	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	142940636001	10/25/2014 08:50	Deborah A Krady	5
07061	Nickel	SW-846 6010C	1	142940636001	10/23/2014 22:45	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	142940636001	10/23/2014 22:45	Elaine F Stoltzfus	1
07036	Selenium	SW-846 6010C	1	142940636001	10/25/2014 08:47	Deborah A Krady	1
07066	Silver	SW-846 6010C	1	142940636001	10/23/2014 22:45	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	142940636001	10/25/2014 08:50	Deborah A Krady	5
07071	Vanadium	SW-846 6010C	1	142940636001	10/23/2014 22:45	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	142940636001	10/23/2014 22:45	Elaine F Stoltzfus	1
06024	Antimony	SW-846 6020A	1	142940639001A	10/23/2014 10:32	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	142940639001A	10/24/2014 05:16	Choon Y Tian	5
06027	Beryllium	SW-846 6020A	1	142940639001A	10/23/2014 10:32	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	142940639001A	10/23/2014 10:32	Choon Y Tian	1
06035	Lead	SW-846 6020A	1	142940639001A	10/23/2014 10:32	Choon Y Tian	1
06045	Thallium	SW-846 6020A	1	142940639001A	10/23/2014 10:32	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	142945713001	10/22/2014 06:55	Damary Valentin	1
10636	WW/TL SW846 (IV) ICP Dig (tot)	SW-846 3010A	1	142940636001	10/21/2014 23:00	Annamaria Kuhns	1
10639	ICP/MS SW846 (IV) Water Digest	SW-846 3010A modified	1	142940639001	10/21/2014 23:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	142945713001	10/22/2014 00:30	Annamaria Kuhns	1
07547	Dissolved Organic Carbon	SM 5310 C-2000	1	14295049501B	10/22/2014 09:12	James S Mathiot	1
00273	Total Organic Carbon	SM 5310 C-2000	1	14297049501A	10/24/2014 11:02	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: FGGM13-MW3R(101714) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642509
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 10:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1703 SDG#: FTM17-03BKG

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l		ug/l	ug/l	
02898	Acetone	67-64-1	N.D.		3.0	5.0	1
02898	Benzene	71-43-2	N.D.		0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.		0.1	0.5	1
02898	Bromoform	75-25-2	N.D.		0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.		0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.		1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.		0.4	1.0	1
02898	Carbon Tetrachloride	56-23-5	N.D.		0.1	0.5	1
02898	Chlorobenzene	108-90-7	0.1	J	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.		0.1	0.5	1
02898	Chloroform	67-66-3	0.4	J	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.		0.2	0.5	1
02898	Cyclohexane	110-82-7	N.D.		0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.		0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.		0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.		0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.		0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.		0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	10		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.		0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.		0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.		0.1	0.5	1
02898	Freon 113	76-13-1	N.D.		0.2	0.5	1
02898	2-Hexanone	591-78-6	N.D.		1.0	5.0	1
02898	Isopropylbenzene	98-82-8	N.D.		0.1	0.5	1
02898	Methyl Acetate	79-20-9	N.D.		0.3	1.0	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.1	0.5	1
02898	4-Methyl-2-pentanone	108-10-1	N.D.		1.0	5.0	1
02898	Methylcyclohexane	108-87-2	N.D.		0.1	0.5	1
02898	Methylene Chloride	75-09-2	N.D.		0.2	0.5	1
02898	Styrene	100-42-5	N.D.		0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	34		1.0	5.0	10
02898	Toluene	108-88-3	N.D.		0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	0.2	J	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
02898	Trichloroethene	79-01-6	1.3		0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.		0.1	0.5	1
02898	m+p-Xylene	179601-23-1	N.D.		0.1	0.5	1
02898	o-Xylene	95-47-6	N.D.		0.1	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: FGGM13-MW3R(101714) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642509
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 10:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1703 SDG#: FTM17-03BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081B**		**ug/l**	**ug/l**	**ug/l**	
10589	Aldrin	309-00-2	N.D. V	0.016	0.040	5
10589	Alpha BHC	319-84-6	N.D.	0.012	0.040	5
10589	Beta BHC	319-85-7	N.D.	0.014	0.040	5
10589	Gamma BHC - Lindane	58-89-9	0.27	0.0081	0.040	5
10589	Alpha Chlordane	5103-71-9	2.3	0.048	0.16	20
10589	Gamma Chlordane	5103-74-2	2.8	0.11	0.16	20
10589	p,p-DDD	72-54-8	0.58	0.020	0.081	5
10589	p,p-DDE	72-55-9	0.062 JP	0.020	0.081	5
10589	p,p-DDT	50-29-3	0.072 J	0.021	0.081	5
10589	Delta BHC	319-86-8	0.024 J	0.014	0.040	5
10589	Dieldrin	60-57-1	0.15	0.021	0.081	5
10589	Endosulfan I	959-98-8	0.080 P	0.017	0.040	5
10589	Endosulfan II	33213-65-9	N.D.	0.060	0.081	5
10589	Endosulfan Sulfate	1031-07-8	0.026 J	0.023	0.081	5
10589	Endrin	72-20-8	N.D.	0.033	0.081	5
10589	Endrin Aldehyde	7421-93-4	N.D.	0.081	0.40	5
10589	Endrin Ketone	53494-70-5	N.D.	0.020	0.081	5
10589	Heptachlor	76-44-8	N.D.	0.0081	0.040	5
10589	Heptachlor Epoxide	1024-57-3	N.D.	0.0093	0.040	5
10589	Methoxychlor	72-43-5	N.D.	0.12	0.40	5
10589	Toxaphene	8001-35-2	N.D.	1.2	4.0	5

"V" - Reporting limits were raised due to interference from the sample matrix.

"P" - A disparity of >40% between the primary and confirmatory analysis occurred. Due to suspected interference, the lower result was reported.

Metals	**SW-846 6010C**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.837	0.0674	0.400	1
07046	Barium	7440-39-3	0.0641	0.00033	0.0100	1
01750	Calcium	7440-70-2	22.1	0.0334	0.400	1
07051	Chromium	7440-47-3	0.0022 J	0.0013	0.0300	1
07052	Cobalt	7440-48-4	N.D.	0.0010	0.0100	1
07053	Copper	7440-50-8	N.D.	0.0028	0.0200	1
01754	Iron	7439-89-6	1.27	0.0334	0.400	1
01757	Magnesium	7439-95-4	2.39	0.0167	0.200	1
07058	Manganese	7439-96-5	0.0041 J	0.00083	0.0100	1
07061	Nickel	7440-02-0	N.D.	0.0016	0.0200	1
01762	Potassium	7440-09-7	2.82	0.133	1.00	1
07036	Selenium	7782-49-2	N.D.	0.0048	0.0400	1
07066	Silver	7440-22-4	N.D.	0.0018	0.0100	1
01767	Sodium	7440-23-5	110	1.67	20.0	10
07071	Vanadium	7440-62-2	0.0032 J	0.0019	0.0100	1
07072	Zinc	7440-66-6	0.0602	0.0020	0.0400	1
	SW-846 6020A		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00094 J	0.00033	0.0020	1
06025	Arsenic	7440-38-2	0.00096 J	0.00082	0.0040	1
06027	Beryllium	7440-41-7	N.D.	0.000045	0.0010	1
06028	Cadmium	7440-43-9	N.D.	0.00017	0.0010	1
06035	Lead	7439-92-1	0.00039 J	0.000082	0.0020	1

*=This limit was used in the evaluation of the final result

Sample Description: FGGM13-MW3R(101714) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642509
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 10:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1703 SDG#: FTM17-03BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020A**		**mg/l**	**mg/l**	**mg/l**	
06045	Thallium	7440-28-0	N.D.	0.00015	0.0010	1
Metals	**SW-846 7470A**		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	VOCs- 25ml Water by 8260B	SW-846 8260B 25mL purge	1	C142971AA	10/25/2014 00:07	Sara E Johnson	1
02898	VOCs- 25ml Water by 8260B	SW-846 8260B 25mL purge	1	C142971AA	10/25/2014 01:16	Sara E Johnson	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C142971AA	10/25/2014 00:07	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C142971AA	10/25/2014 01:16	Sara E Johnson	10
10589	OC Pesticides in Water	SW-846 8081B	1	142940004A	10/22/2014 22:49	Lisa A Reinert	5
10589	OC Pesticides in Water	SW-846 8081B	1	142940004A	10/22/2014 23:02	Lisa A Reinert	20
11120	Pesticide Waters Update IV Ext	SW-846 3510C	1	142940004A	10/21/2014 15:40	Kelli M Barto	1
01743	Aluminum	SW-846 6010C	1	142940636001	10/23/2014 22:17	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010C	1	142940636001	10/23/2014 22:17	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	142940636001	10/23/2014 22:17	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	142940636001	10/23/2014 22:17	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	142940636001	10/23/2014 22:17	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	142940636001	10/23/2014 22:17	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010C	1	142940636001	10/23/2014 22:17	Elaine F Stoltzfus	1
01757	Magnesium	SW-846 6010C	1	142940636001	10/23/2014 22:17	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	142940636001	10/23/2014 22:17	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	142940636001	10/23/2014 22:17	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	142940636001	10/23/2014 22:17	Elaine F Stoltzfus	1
07036	Selenium	SW-846 6010C	1	142940636001	10/25/2014 07:47	Deborah A Krady	1
07066	Silver	SW-846 6010C	1	142940636001	10/23/2014 22:17	Elaine F Stoltzfus	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW3R(101714) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642509
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 10:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1703 SDG#: FTM17-03BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01767	Sodium	SW-846 6010C	1	142940636001	10/25/2014 08:08	Deborah A Krady	10
07071	Vanadium	SW-846 6010C	1	142940636001	10/23/2014 22:17	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	142940636001	10/23/2014 22:17	Elaine F Stoltzfus	1
06024	Antimony	SW-846 6020A	1	142940639001A	10/23/2014 10:14	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	142940639001A	10/23/2014 10:14	Choon Y Tian	1
06027	Beryllium	SW-846 6020A	1	142940639001A	10/23/2014 10:14	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	142940639001A	10/23/2014 10:14	Choon Y Tian	1
06035	Lead	SW-846 6020A	1	142940639001A	10/23/2014 10:14	Choon Y Tian	1
06045	Thallium	SW-846 6020A	1	142940639001A	10/23/2014 10:14	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	142945713001	10/22/2014 06:45	Damary Valentin	1
10636	WW/TL SW846 (IV) ICP Dig (tot)	SW-846 3010A	1	142940636001	10/21/2014 23:00	Annamaria Kuhns	1
10639	ICP/MS SW846 (IV) Water Digest	SW-846 3010A modified	1	142940639001	10/21/2014 23:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	142945713001	10/22/2014 00:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

Sample Description: FGGM13-MW3R(101714)MS Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642510
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 10:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1703 SDG#: FTM17-03MS

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l		ug/l	ug/l	
02898	Acetone	67-64-1	37		3.0	5.0	1
02898	Benzene	71-43-2	5.6		0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.7		0.1	0.5	1
02898	Bromoform	75-25-2	5.7		0.1	0.5	1
02898	Bromomethane	74-83-9	5.0		0.1	0.5	1
02898	2-Butanone	78-93-3	39		1.0	5.0	1
02898	Carbon Disulfide	75-15-0	5.0		0.4	1.0	1
02898	Carbon Tetrachloride	56-23-5	6.4		0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.8		0.1	0.5	1
02898	Chloroethane	75-00-3	4.8		0.1	0.5	1
02898	Chloroform	67-66-3	6.2		0.1	0.5	1
02898	Chloromethane	74-87-3	4.3		0.2	0.5	1
02898	Cyclohexane	110-82-7	5.4		0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	5.7		0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.8		0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	5.9		0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.7		0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.6		0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.7		0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	4.0		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.5		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	6.0		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	6.0		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	17		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	5.9		0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.5		0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	5.3		0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	5.8		0.1	0.5	1
02898	Ethylbenzene	100-41-4	5.8		0.1	0.5	1
02898	Freon 113	76-13-1	5.5		0.2	0.5	1
02898	2-Hexanone	591-78-6	28		1.0	5.0	1
02898	Isopropylbenzene	98-82-8	6.2		0.1	0.5	1
02898	Methyl Acetate	79-20-9	4.6		0.3	1.0	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	5.3		0.1	0.5	1
02898	4-Methyl-2-pentanone	108-10-1	27		1.0	5.0	1
02898	Methylcyclohexane	108-87-2	6.0		0.1	0.5	1
02898	Methylene Chloride	75-09-2	5.6		0.2	0.5	1
02898	Styrene	100-42-5	6.0		0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	5.6		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	50	E	0.1	0.5	1
02898	Toluene	108-88-3	5.6		0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	5.8		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	5.9		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.9		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	5.7		0.1	0.5	1
02898	Trichloroethene	79-01-6	7.3		0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	5.5		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	4.8		0.1	0.5	1
02898	m+p-Xylene	179601-23-1	12		0.1	0.5	1
02898	o-Xylene	95-47-6	5.9		0.1	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: FGGM13-MW3R(101714)MS Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642510
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 10:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1703 SDG#: FTM17-03MS

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081B**		**ug/l**		**ug/l**	**ug/l**	
10589	Aldrin	309-00-2	0.11		0.0081	0.040	5
10589	Alpha BHC	319-84-6	0.16		0.012	0.040	5
10589	Beta BHC	319-85-7	0.12		0.014	0.040	5
10589	Gamma BHC - Lindane	58-89-9	0.38		0.0081	0.040	5
10589	Alpha Chlordane	5103-71-9	2.3		0.012	0.040	5
10589	Gamma Chlordane	5103-74-2	3.2		0.028	0.040	5
10589	p,p-DDD	72-54-8	0.24		0.020	0.081	5
10589	p,p-DDE	72-55-9	0.18	P	0.020	0.081	5
10589	p,p-DDT	50-29-3	0.22		0.021	0.081	5
10589	Delta BHC	319-86-8	0.13		0.014	0.040	5
10589	Dieldrin	60-57-1	0.35		0.021	0.081	5
10589	Endosulfan I	959-98-8	0.18		0.017	0.040	5
10589	Endosulfan II	33213-65-9	0.28		0.061	0.081	5
10589	Endosulfan Sulfate	1031-07-8	0.26		0.023	0.081	5
10589	Endrin	72-20-8	0.24		0.033	0.081	5
10589	Endrin Aldehyde	7421-93-4	0.22	J	0.081	0.40	5
10589	Endrin Ketone	53494-70-5	0.24		0.020	0.081	5
10589	Heptachlor	76-44-8	0.11		0.0081	0.040	5
10589	Heptachlor Epoxide	1024-57-3	0.22		0.0093	0.040	5
10589	Methoxychlor	72-43-5	0.93		0.12	0.40	5
10589	Toxaphene	8001-35-2	N.D.		1.2	4.0	5

"P" - A disparity of >40% between the primary and confirmatory analysis occurred. Due to suspected interference, the lower result was reported.

Metals	**SW-846 6010C**		**mg/l**		**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	3.97		0.0674	0.400	1
07046	Barium	7440-39-3	2.07		0.00033	0.0100	1
01750	Calcium	7440-70-2	26.1		0.0334	0.400	1
07051	Chromium	7440-47-3	0.198		0.0013	0.0300	1
07052	Cobalt	7440-48-4	0.509		0.0010	0.0100	1
07053	Copper	7440-50-8	0.261		0.0028	0.0200	1
01754	Iron	7439-89-6	2.21		0.0334	0.400	1
01757	Magnesium	7439-95-4	4.38		0.0167	0.200	1
07058	Manganese	7439-96-5	0.502		0.00083	0.0100	1
07061	Nickel	7440-02-0	0.510		0.0016	0.0200	1
01762	Potassium	7440-09-7	13.4		0.133	1.00	1
07036	Selenium	7782-49-2	0.152		0.0048	0.0400	1
07066	Silver	7440-22-4	0.0482		0.0018	0.0100	1
01767	Sodium	7440-23-5	118		1.67	20.0	10
07071	Vanadium	7440-62-2	0.509		0.0019	0.0100	1
07072	Zinc	7440-66-6	0.520		0.0020	0.0400	1
	SW-846 6020A		**mg/l**		**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.0071		0.00033	0.0020	1
06025	Arsenic	7440-38-2	0.0107		0.00082	0.0040	1
06027	Beryllium	7440-41-7	0.0040		0.000045	0.0010	1
06028	Cadmium	7440-43-9	0.0051		0.00017	0.0010	1
06035	Lead	7439-92-1	0.0161		0.000082	0.0020	1
06045	Thallium	7440-28-0	0.0021		0.00015	0.0010	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW3R(101714)MS Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642510
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 10:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1703 SDG#: FTM17-03MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 7470A**		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.00085	0.000060	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	VOCs- 25ml Water by 8260B	SW-846 8260B 25mL purge	1	C142971AA	10/25/2014 00:30	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C142971AA	10/25/2014 00:30	Sara E Johnson	1
10589	OC Pesticides in Water	SW-846 8081B	1	142940004A	10/22/2014 23:14	Lisa A Reinert	5
11120	Pesticide Waters Update IV Ext	SW-846 3510C	1	142940004A	10/21/2014 15:40	Kelli M Barto	1
01743	Aluminum	SW-846 6010C	1	142940636001	10/23/2014 22:29	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010C	1	142940636001	10/23/2014 22:29	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	142940636001	10/23/2014 22:29	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	142940636001	10/23/2014 22:29	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	142940636001	10/23/2014 22:29	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	142940636001	10/23/2014 22:29	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010C	1	142940636001	10/23/2014 22:29	Elaine F Stoltzfus	1
01757	Magnesium	SW-846 6010C	1	142940636001	10/23/2014 22:29	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	142940636001	10/23/2014 22:29	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	142940636001	10/23/2014 22:29	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	142940636001	10/23/2014 22:29	Elaine F Stoltzfus	1
07036	Selenium	SW-846 6010C	1	142940636001	10/25/2014 07:57	Deborah A Krady	1
07066	Silver	SW-846 6010C	1	142940636001	10/23/2014 22:29	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	142940636001	10/25/2014 08:25	Deborah A Krady	10
07071	Vanadium	SW-846 6010C	1	142940636001	10/23/2014 22:29	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	142940636001	10/23/2014 22:29	Elaine F Stoltzfus	1
06024	Antimony	SW-846 6020A	1	142940639001A	10/23/2014 10:22	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	142940639001A	10/23/2014 10:22	Choon Y Tian	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW3R(101714)MS Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642510
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 10:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1703 SDG#: FTM17-03MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06027	Beryllium	SW-846 6020A	1	142940639001A	10/23/2014 10:22	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	142940639001A	10/23/2014 10:22	Choon Y Tian	1
06035	Lead	SW-846 6020A	1	142940639001A	10/23/2014 10:22	Choon Y Tian	1
06045	Thallium	SW-846 6020A	1	142940639001A	10/23/2014 10:22	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	142945713001	10/22/2014 06:49	Damary Valentin	1
10636	WW/TL SW846 (IV) ICP Dig (tot)	SW-846 3010A	1	142940636001	10/21/2014 23:00	Annamaria Kuhns	1
10639	ICP/MS SW846 (IV) Water Digest	SW-846 3010A modified	1	142940639001	10/21/2014 23:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	142945713001	10/22/2014 00:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

Sample Description: FGGM13-MW3R(101714)MSD Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642511
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 10:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1703 SDG#: FTM17-03MSD

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l		ug/l	ug/l	
02898	Acetone	67-64-1	33		3.0	5.0	1
02898	Benzene	71-43-2	5.5		0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.6		0.1	0.5	1
02898	Bromoform	75-25-2	5.5		0.1	0.5	1
02898	Bromomethane	74-83-9	5.2		0.1	0.5	1
02898	2-Butanone	78-93-3	35		1.0	5.0	1
02898	Carbon Disulfide	75-15-0	4.9		0.4	1.0	1
02898	Carbon Tetrachloride	56-23-5	6.3		0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.8		0.1	0.5	1
02898	Chloroethane	75-00-3	4.9		0.1	0.5	1
02898	Chloroform	67-66-3	6.0		0.1	0.5	1
02898	Chloromethane	74-87-3	4.4		0.2	0.5	1
02898	Cyclohexane	110-82-7	5.4		0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	5.5		0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.6		0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	5.7		0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.6		0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.6		0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.6		0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	4.0		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.4		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	5.8		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	6.0		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	16		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	5.7		0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.5		0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	5.4		0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	5.7		0.1	0.5	1
02898	Ethylbenzene	100-41-4	5.7		0.1	0.5	1
02898	Freon 113	76-13-1	5.3		0.2	0.5	1
02898	2-Hexanone	591-78-6	28		1.0	5.0	1
02898	Isopropylbenzene	98-82-8	6.1		0.1	0.5	1
02898	Methyl Acetate	79-20-9	5.6		0.3	1.0	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	5.2		0.1	0.5	1
02898	4-Methyl-2-pentanone	108-10-1	27		1.0	5.0	1
02898	Methylcyclohexane	108-87-2	6.3		0.1	0.5	1
02898	Methylene Chloride	75-09-2	5.6		0.2	0.5	1
02898	Styrene	100-42-5	5.9		0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	5.5		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	50	E	0.1	0.5	1
02898	Toluene	108-88-3	5.5		0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	5.8		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	5.9		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.8		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	5.5		0.1	0.5	1
02898	Trichloroethene	79-01-6	7.2		0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	5.6		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	5.0		0.1	0.5	1
02898	m+p-Xylene	179601-23-1	12		0.1	0.5	1
02898	o-Xylene	95-47-6	5.8		0.1	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: FGGM13-MW3R(101714)MSD Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642511
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 10:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1703 SDG#: FTM17-03MSD

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081B**		**ug/l**		**ug/l**	**ug/l**	
10589	Aldrin	309-00-2	0.12		0.0081	0.040	5
10589	Alpha BHC	319-84-6	0.15		0.012	0.040	5
10589	Beta BHC	319-85-7	0.11		0.014	0.040	5
10589	Gamma BHC - Lindane	58-89-9	0.36		0.0081	0.040	5
10589	Alpha Chlordane	5103-71-9	2.7		0.012	0.040	5
10589	Gamma Chlordane	5103-74-2	3.6		0.028	0.040	5
10589	p,p-DDD	72-54-8	0.24		0.020	0.081	5
10589	p,p-DDE	72-55-9	0.18	P	0.020	0.081	5
10589	p,p-DDT	50-29-3	0.22		0.021	0.081	5
10589	Delta BHC	319-86-8	0.12		0.014	0.040	5
10589	Dieldrin	60-57-1	0.34		0.021	0.081	5
10589	Endosulfan I	959-98-8	0.18		0.017	0.040	5
10589	Endosulfan II	33213-65-9	0.26		0.060	0.081	5
10589	Endosulfan Sulfate	1031-07-8	0.24		0.023	0.081	5
10589	Endrin	72-20-8	0.23		0.033	0.081	5
10589	Endrin Aldehyde	7421-93-4	0.21	J	0.081	0.40	5
10589	Endrin Ketone	53494-70-5	0.23		0.020	0.081	5
10589	Heptachlor	76-44-8	0.11		0.0081	0.040	5
10589	Heptachlor Epoxide	1024-57-3	0.23		0.0093	0.040	5
10589	Methoxychlor	72-43-5	0.93		0.12	0.40	5
10589	Toxaphene	8001-35-2	N.D.		1.2	4.0	5

"P" - A disparity of >40% between the primary and confirmatory analysis occurred. Due to suspected interference, the lower result was reported.

Metals	**SW-846 6010C**		**mg/l**		**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	4.13		0.0674	0.400	1
07046	Barium	7440-39-3	2.09		0.00033	0.0100	1
01750	Calcium	7440-70-2	26.5		0.0334	0.400	1
07051	Chromium	7440-47-3	0.200		0.0013	0.0300	1
07052	Cobalt	7440-48-4	0.513		0.0010	0.0100	1
07053	Copper	7440-50-8	0.262		0.0028	0.0200	1
01754	Iron	7439-89-6	2.24		0.0334	0.400	1
01757	Magnesium	7439-95-4	4.44		0.0167	0.200	1
07058	Manganese	7439-96-5	0.508		0.00083	0.0100	1
07061	Nickel	7440-02-0	0.516		0.0016	0.0200	1
01762	Potassium	7440-09-7	13.6		0.133	1.00	1
07036	Selenium	7782-49-2	0.155		0.0048	0.0400	1
07066	Silver	7440-22-4	0.0484		0.0018	0.0100	1
01767	Sodium	7440-23-5	119		1.67	20.0	10
07071	Vanadium	7440-62-2	0.515		0.0019	0.0100	1
07072	Zinc	7440-66-6	0.521		0.0020	0.0400	1
	SW-846 6020A		**mg/l**		**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.0073		0.00033	0.0020	1
06025	Arsenic	7440-38-2	0.0106		0.00082	0.0040	1
06027	Beryllium	7440-41-7	0.0041		0.000045	0.0010	1
06028	Cadmium	7440-43-9	0.0052		0.00017	0.0010	1
06035	Lead	7439-92-1	0.0160		0.000082	0.0020	1
06045	Thallium	7440-28-0	0.0021		0.00015	0.0010	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW3R(101714)MSD Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642511
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 10:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1703 SDG#: FTM17-03MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 7470A**		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.00085	0.000060	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	VOCs- 25ml Water by 8260B	SW-846 8260B 25mL purge	1	C142971AA	10/25/2014 00:53	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C142971AA	10/25/2014 00:53	Sara E Johnson	1
10589	OC Pesticides in Water	SW-846 8081B	1	142940004A	10/22/2014 23:27	Lisa A Reinert	5
11120	Pesticide Waters Update IV Ext	SW-846 3510C	1	142940004A	10/21/2014 15:40	Kelli M Barto	1
01743	Aluminum	SW-846 6010C	1	142940636001	10/23/2014 22:33	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010C	1	142940636001	10/23/2014 22:33	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	142940636001	10/23/2014 22:33	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	142940636001	10/23/2014 22:33	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	142940636001	10/23/2014 22:33	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	142940636001	10/23/2014 22:33	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010C	1	142940636001	10/23/2014 22:33	Elaine F Stoltzfus	1
01757	Magnesium	SW-846 6010C	1	142940636001	10/23/2014 22:33	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	142940636001	10/23/2014 22:33	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	142940636001	10/23/2014 22:33	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	142940636001	10/23/2014 22:33	Elaine F Stoltzfus	1
07036	Selenium	SW-846 6010C	1	142940636001	10/25/2014 08:01	Deborah A Krady	1
07066	Silver	SW-846 6010C	1	142940636001	10/23/2014 22:33	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	142940636001	10/25/2014 08:29	Deborah A Krady	10
07071	Vanadium	SW-846 6010C	1	142940636001	10/23/2014 22:33	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	142940636001	10/23/2014 22:33	Elaine F Stoltzfus	1
06024	Antimony	SW-846 6020A	1	142940639001A	10/23/2014 10:24	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	142940639001A	10/23/2014 10:24	Choon Y Tian	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW3R(101714)MSD Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642511
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 10:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1703 SDG#: FTM17-03MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06027	Beryllium	SW-846 6020A	1	142940639001A	10/23/2014 10:24	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	142940639001A	10/23/2014 10:24	Choon Y Tian	1
06035	Lead	SW-846 6020A	1	142940639001A	10/23/2014 10:24	Choon Y Tian	1
06045	Thallium	SW-846 6020A	1	142940639001A	10/23/2014 10:24	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	142945713001	10/22/2014 06:51	Damary Valentin	1
10636	WW/TL SW846 (IV) ICP Dig (tot)	SW-846 3010A	1	142940636001	10/21/2014 23:00	Annamaria Kuhns	1
10639	ICP/MS SW846 (IV) Water Digest	SW-846 3010A modified	1	142940639001	10/21/2014 23:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	142945713001	10/22/2014 00:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW3R(101714)DUP Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642512
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 10:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1703 SDG#: FTM17-04DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.769	0.0674	0.400	1
07046	Barium	7440-39-3	0.0642	0.00033	0.0100	1
01750	Calcium	7440-70-2	21.9	0.0334	0.400	1
07051	Chromium	7440-47-3	0.0015 J	0.0013	0.0300	1
07052	Cobalt	7440-48-4	N.D.	0.0010	0.0100	1
07053	Copper	7440-50-8	N.D.	0.0028	0.0200	1
01754	Iron	7439-89-6	1.25	0.0334	0.400	1
01757	Magnesium	7439-95-4	2.36	0.0167	0.200	1
07058	Manganese	7439-96-5	0.0076 J	0.00083	0.0100	1
07061	Nickel	7440-02-0	N.D.	0.0016	0.0200	1
01762	Potassium	7440-09-7	2.82	0.133	1.00	1
07036	Selenium	7782-49-2	N.D.	0.0048	0.0400	1
07066	Silver	7440-22-4	N.D.	0.0018	0.0100	1
01767	Sodium	7440-23-5	117	1.67	20.0	10
07071	Vanadium	7440-62-2	0.0029 J	0.0019	0.0100	1
07072	Zinc	7440-66-6	0.0045 J	0.0020	0.0400	1
	SW-846 6020A		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00073 J	0.00033	0.0020	1
06025	Arsenic	7440-38-2	N.D.	0.00082	0.0040	1
06027	Beryllium	7440-41-7	N.D.	0.000045	0.0010	1
06028	Cadmium	7440-43-9	N.D.	0.00017	0.0010	1
06035	Lead	7439-92-1	0.00042 J	0.000082	0.0020	1
06045	Thallium	7440-28-0	N.D.	0.00015	0.0010	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000061 J	0.000060	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01743	Aluminum	SW-846 6010C	1	142940636001	10/23/2014 22:25	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010C	1	142940636001	10/23/2014 22:25	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	142940636001	10/23/2014 22:25	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	142940636001	10/23/2014 22:25	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	142940636001	10/23/2014 22:25	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	142940636001	10/23/2014 22:25	Elaine F Stoltzfus	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW3R(101714)DUP Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642512
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 10:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1703 SDG#: FTM17-04DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010C	1	142940636001	10/23/2014 22:25	Elaine F Stoltzfus	1
01757	Magnesium	SW-846 6010C	1	142940636001	10/23/2014 22:25	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	142940636001	10/23/2014 22:25	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	142940636001	10/23/2014 22:25	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	142940636001	10/23/2014 22:25	Elaine F Stoltzfus	1
07036	Selenium	SW-846 6010C	1	142940636001	10/25/2014 07:54	Deborah A Krady	1
07066	Silver	SW-846 6010C	1	142940636001	10/23/2014 22:25	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	142940636001	10/25/2014 08:22	Deborah A Krady	10
07071	Vanadium	SW-846 6010C	1	142940636001	10/23/2014 22:25	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	142940636001	10/23/2014 22:25	Elaine F Stoltzfus	1
06024	Antimony	SW-846 6020A	1	142940639001A	10/23/2014 10:19	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	142940639001A	10/23/2014 10:19	Choon Y Tian	1
06027	Beryllium	SW-846 6020A	1	142940639001A	10/23/2014 10:19	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	142940639001A	10/23/2014 10:19	Choon Y Tian	1
06035	Lead	SW-846 6020A	1	142940639001A	10/23/2014 10:19	Choon Y Tian	1
06045	Thallium	SW-846 6020A	1	142940639001A	10/23/2014 10:19	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	142945713001	10/22/2014 06:47	Damary Valentin	1
10636	WW/TL SW846 (IV) ICP Dig (tot)	SW-846 3010A	1	142940636001	10/21/2014 23:00	Annamaria Kuhns	1
10639	ICP/MS SW846 (IV) Water Digest	SW-846 3010A modified	1	142940639001	10/21/2014 23:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	142945713001	10/22/2014 00:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

Sample Description: FGGM13-MW4R(101614) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642513
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 11:55 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1704 SDG#: FTM17-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	1.0	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	1.2	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Cyclohexane	110-82-7	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	Methyl Acetate	79-20-9	N.D.	0.3	1.0	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylcyclohexane	108-87-2	N.D.	0.1	0.5	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	1.0	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	m+p-Xylene	179601-23-1	N.D.	0.1	0.5	1
02898	o-Xylene	95-47-6	N.D.	0.1	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: FGGM13-MW4R(101614) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642513
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 11:55 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1704 SDG#: FTM17-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081B**		**ug/l**	**ug/l**	**ug/l**	
10589	Aldrin	309-00-2	0.0032 J	0.0017	0.0083	1
10589	Alpha BHC	319-84-6	N.D.	0.0025	0.0083	1
10589	Beta BHC	319-85-7	0.0038 JP	0.0028	0.0083	1
10589	Gamma BHC - Lindane	58-89-9	0.033	0.0017	0.0083	1
10589	Alpha Chlordane	5103-71-9	0.19	0.012	0.041	5
10589	Gamma Chlordane	5103-74-2	0.17	0.029	0.041	5
10589	p,p-DDD	72-54-8	N.D.	0.0041	0.017	1
10589	p,p-DDE	72-55-9	N.D.	0.0041	0.017	1
10589	p,p-DDT	50-29-3	0.0043 JP	0.0043	0.017	1
10589	Delta BHC	319-86-8	N.D.	0.0028	0.0083	1
10589	Dieldrin	60-57-1	0.090	0.0044	0.017	1
10589	Endosulfan I	959-98-8	0.025 P	0.0036	0.0083	1
10589	Endosulfan II	33213-65-9	N.D.	0.012	0.017	1
10589	Endosulfan Sulfate	1031-07-8	0.0091 J	0.0048	0.017	1
10589	Endrin	72-20-8	N.D.	0.0067	0.017	1
10589	Endrin Aldehyde	7421-93-4	N.D.	0.017	0.083	1
10589	Endrin Ketone	53494-70-5	0.011 J	0.0041	0.017	1
10589	Heptachlor	76-44-8	N.D.	0.0017	0.0083	1
10589	Heptachlor Epoxide	1024-57-3	N.D. V	0.022	0.022	1
10589	Methoxychlor	72-43-5	N.D.	0.025	0.083	1
10589	Toxaphene	8001-35-2	N.D.	0.25	0.83	1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.

"V" - Reporting limits were raised due to interference from the sample matrix.

"P" - A disparity of >40% between the primary and confirmatory analysis occurred. Due to suspected interference, the lower result was reported.

Metals	**SW-846 6010C**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	1.01	0.0674	0.400	1
07046	Barium	7440-39-3	0.0509	0.00033	0.0100	1
01750	Calcium	7440-70-2	20.6	0.0334	0.400	1
07051	Chromium	7440-47-3	0.0023 J	0.0013	0.0300	1
07052	Cobalt	7440-48-4	0.0015 J	0.0010	0.0100	1
07053	Copper	7440-50-8	N.D.	0.0028	0.0200	1
01754	Iron	7439-89-6	2.01	0.0334	0.400	1
01757	Magnesium	7439-95-4	3.72	0.0167	0.200	1
07058	Manganese	7439-96-5	0.0144	0.00083	0.0100	1
07061	Nickel	7440-02-0	N.D.	0.0016	0.0200	1
01762	Potassium	7440-09-7	2.30	0.133	1.00	1
07036	Selenium	7782-49-2	N.D.	0.0048	0.0400	1
07066	Silver	7440-22-4	N.D.	0.0018	0.0100	1
01767	Sodium	7440-23-5	36.1	0.835	10.0	5
07071	Vanadium	7440-62-2	0.0039 J	0.0019	0.0100	1
07072	Zinc	7440-66-6	0.0069 J	0.0020	0.0400	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW4R(101614) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642513
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 11:55 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1704 SDG#: FTM17-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020A**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	N.D.	0.00033	0.0020	1
06025	Arsenic	7440-38-2	N.D.	0.00082	0.0040	1
06027	Beryllium	7440-41-7	0.000052 J	0.000045	0.0010	1
06028	Cadmium	7440-43-9	0.00017 J	0.00017	0.0010	1
06035	Lead	7439-92-1	0.00069 J	0.000082	0.0020	1
06045	Thallium	7440-28-0	N.D.	0.00015	0.0010	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	VOCs- 25ml Water by 8260B	SW-846 8260B 25mL purge	1	C143001AA	10/27/2014 11:38	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C143001AA	10/27/2014 11:38	Kerri E Legerlotz	1
10589	OC Pesticides in Water	SW-846 8081B	1	142940004A	10/22/2014 20:33	Lisa A Reinert	1
10589	OC Pesticides in Water	SW-846 8081B	1	142940004A	10/22/2014 20:45	Lisa A Reinert	5
11120	Pesticide Waters Update IV Ext	SW-846 3510C	1	142940004A	10/21/2014 15:40	Kelli M Barto	1
01743	Aluminum	SW-846 6010C	1	142940636001	10/23/2014 22:58	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010C	1	142940636001	10/23/2014 22:58	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	142940636001	10/23/2014 22:58	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	142940636001	10/23/2014 22:58	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	142940636001	10/23/2014 22:58	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	142940636001	10/23/2014 22:58	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010C	1	142940636001	10/23/2014 22:58	Elaine F Stoltzfus	1
01757	Magnesium	SW-846 6010C	1	142940636001	10/23/2014 22:58	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	142940636001	10/23/2014 22:58	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	142940636001	10/23/2014 22:58	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	142940636001	10/23/2014 22:58	Elaine F Stoltzfus	1
07036	Selenium	SW-846 6010C	1	142940636001	10/25/2014 09:04	Deborah A Krady	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW4R(101614) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642513
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 11:55 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1704 SDG#: FTM17-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07066	Silver	SW-846 6010C	1	142940636001	10/23/2014 22:58	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	142940636001	10/25/2014 08:54	Deborah A Krady	5
07071	Vanadium	SW-846 6010C	1	142940636001	10/23/2014 22:58	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	142940636001	10/23/2014 22:58	Elaine F Stoltzfus	1
06024	Antimony	SW-846 6020A	1	142940639001A	10/23/2014 10:39	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	142940639001A	10/23/2014 10:39	Choon Y Tian	1
06027	Beryllium	SW-846 6020A	1	142940639001A	10/23/2014 10:39	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	142940639001A	10/23/2014 10:39	Choon Y Tian	1
06035	Lead	SW-846 6020A	1	142940639001A	10/23/2014 10:39	Choon Y Tian	1
06045	Thallium	SW-846 6020A	1	142940639001A	10/23/2014 10:39	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	142945713001	10/22/2014 06:57	Damary Valentin	1
10636	WW/TL SW846 (IV) ICP Dig (tot)	SW-846 3010A	1	142940636001	10/21/2014 23:00	Annamaria Kuhns	1
10639	ICP/MS SW846 (IV) Water Digest	SW-846 3010A modified	1	142940639001	10/21/2014 23:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	142945713001	10/22/2014 00:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

Sample Description: FGGM13-MW5(101614) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642514
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 17:00 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1705 SDG#: FTM17-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	1.0	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	0.9	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Cyclohexane	110-82-7	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	Methyl Acetate	79-20-9	N.D.	0.3	1.0	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylcyclohexane	108-87-2	N.D.	0.1	0.5	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	m+p-Xylene	179601-23-1	N.D.	0.1	0.5	1
02898	o-Xylene	95-47-6	N.D.	0.1	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: FGGM13-MW5(101614) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642514
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 17:00 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1705 SDG#: FTM17-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081B**		**ug/l**	**ug/l**	**ug/l**	
10589	Aldrin	309-00-2	N.D.	0.0016	0.0082	1
10589	Alpha BHC	319-84-6	N.D.	0.0025	0.0082	1
10589	Beta BHC	319-85-7	N.D.	0.0028	0.0082	1
10589	Gamma BHC - Lindane	58-89-9	N.D.	0.0016	0.0082	1
10589	Alpha Chlordane	5103-71-9	N.D.	0.0025	0.0082	1
10589	Gamma Chlordane	5103-74-2	N.D.	0.0057	0.0082	1
10589	p,p-DDD	72-54-8	N.D.	0.0041	0.016	1
10589	p,p-DDE	72-55-9	N.D.	0.0041	0.016	1
10589	p,p-DDT	50-29-3	N.D.	0.0043	0.016	1
10589	Delta BHC	319-86-8	N.D.	0.0028	0.0082	1
10589	Dieldrin	60-57-1	N.D.	0.0043	0.016	1
10589	Endosulfan I	959-98-8	N.D.	0.0035	0.0082	1
10589	Endosulfan II	33213-65-9	N.D.	0.012	0.016	1
10589	Endosulfan Sulfate	1031-07-8	N.D.	0.0048	0.016	1
10589	Endrin	72-20-8	N.D.	0.0066	0.016	1
10589	Endrin Aldehyde	7421-93-4	N.D.	0.016	0.082	1
10589	Endrin Ketone	53494-70-5	N.D.	0.0041	0.016	1
10589	Heptachlor	76-44-8	N.D.	0.0016	0.0082	1
10589	Heptachlor Epoxide	1024-57-3	N.D.	0.0019	0.0082	1
10589	Methoxychlor	72-43-5	N.D.	0.025	0.082	1
10589	Toxaphene	8001-35-2	N.D.	0.25	0.82	1
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.635	0.0674	0.400	1
07046	Barium	7440-39-3	0.200	0.00033	0.0100	1
01750	Calcium	7440-70-2	27.5	0.167	2.00	5
07051	Chromium	7440-47-3	0.0016 J	0.0013	0.0300	1
07052	Cobalt	7440-48-4	0.0042 J	0.0010	0.0100	1
07053	Copper	7440-50-8	N.D.	0.0028	0.0200	1
01754	Iron	7439-89-6	0.706	0.0334	0.400	1
01757	Magnesium	7439-95-4	9.60	0.0167	0.200	1
07058	Manganese	7439-96-5	0.0597	0.00083	0.0100	1
07061	Nickel	7440-02-0	0.0066 J	0.0016	0.0200	1
01762	Potassium	7440-09-7	4.30	0.133	1.00	1
07036	Selenium	7782-49-2	N.D.	0.0048	0.0400	1
07066	Silver	7440-22-4	N.D.	0.0018	0.0100	1
01767	Sodium	7440-23-5	124	1.67	20.0	10
07071	Vanadium	7440-62-2	0.0023 J	0.0019	0.0100	1
07072	Zinc	7440-66-6	0.0114 J	0.0020	0.0400	1
	SW-846 6020A		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00043 J	0.00033	0.0020	1
06025	Arsenic	7440-38-2	N.D.	0.00082	0.0040	1
06027	Beryllium	7440-41-7	N.D.	0.000045	0.0010	1
06028	Cadmium	7440-43-9	0.00021 J	0.00017	0.0010	1
06035	Lead	7439-92-1	0.00058 J	0.000082	0.0020	1
06045	Thallium	7440-28-0	N.D.	0.00015	0.0010	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

*=This limit was used in the evaluation of the final result

Sample Description: FGGM13-MW5(101614) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642514
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 17:00 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1705 SDG#: FTM17-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
02898	VOCs- 25ml Water by 8260B	SW-846 8260B 25mL purge	1	C143001AA	10/27/2014	12:01	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C143001AA	10/27/2014	12:01	Kerri E Legerlotz	1
10589	OC Pesticides in Water	SW-846 8081B	1	142940004A	10/22/2014	19:06	Lisa A Reinert	1
11120	Pesticide Waters Update IV Ext	SW-846 3510C	1	142940004A	10/21/2014	15:40	Kelli M Barto	1
01743	Aluminum	SW-846 6010C	1	142940636001	10/23/2014	23:02	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010C	1	142940636001	10/23/2014	23:02	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	142940636001	10/25/2014	09:11	Deborah A Krady	5
07051	Chromium	SW-846 6010C	1	142940636001	10/23/2014	23:02	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	142940636001	10/23/2014	23:02	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	142940636001	10/23/2014	23:02	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010C	1	142940636001	10/23/2014	23:02	Elaine F Stoltzfus	1
01757	Magnesium	SW-846 6010C	1	142940636001	10/23/2014	23:02	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	142940636001	10/23/2014	23:02	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	142940636001	10/23/2014	23:02	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	142940636001	10/23/2014	23:02	Elaine F Stoltzfus	1
07036	Selenium	SW-846 6010C	1	142940636001	10/25/2014	09:07	Deborah A Krady	1
07066	Silver	SW-846 6010C	1	142940636001	10/23/2014	23:02	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	142940636001	10/25/2014	09:15	Deborah A Krady	10
07071	Vanadium	SW-846 6010C	1	142940636001	10/23/2014	23:02	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	142940636001	10/23/2014	23:02	Elaine F Stoltzfus	1
06024	Antimony	SW-846 6020A	1	142940639001A	10/23/2014	10:42	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	142940639001A	10/23/2014	10:42	Choon Y Tian	1
06027	Beryllium	SW-846 6020A	1	142940639001A	10/23/2014	10:42	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	142940639001A	10/23/2014	10:42	Choon Y Tian	1
06035	Lead	SW-846 6020A	1	142940639001A	10/23/2014	10:42	Choon Y Tian	1
06045	Thallium	SW-846 6020A	1	142940639001A	10/23/2014	10:42	Choon Y Tian	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW5(101614) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642514
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 17:00 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1705 SDG#: FTM17-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	142945713001	10/22/2014 06:59	Damary Valentin	1
10636	WW/TL SW846 (IV) ICP Dig (tot)	SW-846 3010A	1	142940636001	10/21/2014 23:00	Annamaria Kuhns	1
10639	ICP/MS SW846 (IV) Water Digest	SW-846 3010A modified	1	142940639001	10/21/2014 23:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	142945713001	10/22/2014 00:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

Sample Description: FGGM13-MW6(101614) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642515
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 13:35 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1706 SDG#: FTM17-07

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l		ug/l	ug/l	
02898	Acetone	67-64-1	N.D.		3.0	5.0	1
02898	Benzene	71-43-2	N.D.		0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.		0.1	0.5	1
02898	Bromoform	75-25-2	N.D.		0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.		0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.		1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.		0.4	1.0	1
02898	Carbon Tetrachloride	56-23-5	N.D.		0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.		0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.		0.1	0.5	1
02898	Chloroform	67-66-3	0.8		0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.		0.2	0.5	1
02898	Cyclohexane	110-82-7	N.D.		0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.		0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.		0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.		0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.		0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.		0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.		0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.		0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.		0.1	0.5	1
02898	Freon 113	76-13-1	N.D.		0.2	0.5	1
02898	2-Hexanone	591-78-6	N.D.		1.0	5.0	1
02898	Isopropylbenzene	98-82-8	N.D.		0.1	0.5	1
02898	Methyl Acetate	79-20-9	N.D.		0.3	1.0	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.1	0.5	1
02898	4-Methyl-2-pentanone	108-10-1	N.D.		1.0	5.0	1
02898	Methylcyclohexane	108-87-2	N.D.		0.1	0.5	1
02898	Methylene Chloride	75-09-2	N.D.		0.2	0.5	1
02898	Styrene	100-42-5	N.D.		0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1	J	0.1	0.5	1
02898	Toluene	108-88-3	N.D.		0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.		0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	0.1	J	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.		0.1	0.5	1
02898	m+p-Xylene	179601-23-1	N.D.		0.1	0.5	1
02898	o-Xylene	95-47-6	N.D.		0.1	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: FGGM13-MW6(101614) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642515
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 13:35 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1706 SDG#: FTM17-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081B**		**ug/l**	**ug/l**	**ug/l**	
10589	Aldrin	309-00-2	N.D.	0.0017	0.0083	1
10589	Alpha BHC	319-84-6	N.D.	0.0025	0.0083	1
10589	Beta BHC	319-85-7	N.D.	0.0028	0.0083	1
10589	Gamma BHC - Lindane	58-89-9	N.D.	0.0017	0.0083	1
10589	Alpha Chlordane	5103-71-9	N.D.	0.0025	0.0083	1
10589	Gamma Chlordane	5103-74-2	N.D.	0.0058	0.0083	1
10589	p,p-DDD	72-54-8	N.D.	0.0041	0.017	1
10589	p,p-DDE	72-55-9	N.D.	0.0041	0.017	1
10589	p,p-DDT	50-29-3	N.D.	0.0043	0.017	1
10589	Delta BHC	319-86-8	N.D.	0.0028	0.0083	1
10589	Dieldrin	60-57-1	N.D.	0.0044	0.017	1
10589	Endosulfan I	959-98-8	N.D.	0.0036	0.0083	1
10589	Endosulfan II	33213-65-9	N.D.	0.012	0.017	1
10589	Endosulfan Sulfate	1031-07-8	N.D.	0.0048	0.017	1
10589	Endrin	72-20-8	N.D.	0.0067	0.017	1
10589	Endrin Aldehyde	7421-93-4	N.D.	0.017	0.083	1
10589	Endrin Ketone	53494-70-5	N.D.	0.0041	0.017	1
10589	Heptachlor	76-44-8	N.D.	0.0017	0.0083	1
10589	Heptachlor Epoxide	1024-57-3	N.D.	0.0019	0.0083	1
10589	Methoxychlor	72-43-5	N.D.	0.025	0.083	1
10589	Toxaphene	8001-35-2	N.D.	0.25	0.83	1
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.456	0.0674	0.400	1
07046	Barium	7440-39-3	0.0922	0.00033	0.0100	1
01750	Calcium	7440-70-2	15.1	0.0334	0.400	1
07051	Chromium	7440-47-3	N.D.	0.0013	0.0300	1
07052	Cobalt	7440-48-4	0.0028 J	0.0010	0.0100	1
07053	Copper	7440-50-8	0.0036 J	0.0028	0.0200	1
01754	Iron	7439-89-6	0.946	0.0334	0.400	1
01757	Magnesium	7439-95-4	5.02	0.0167	0.200	1
07058	Manganese	7439-96-5	0.0218	0.00083	0.0100	1
07061	Nickel	7440-02-0	0.0028 J	0.0016	0.0200	1
01762	Potassium	7440-09-7	2.97	0.133	1.00	1
07036	Selenium	7782-49-2	N.D.	0.0048	0.0400	1
07066	Silver	7440-22-4	N.D.	0.0018	0.0100	1
01767	Sodium	7440-23-5	37.6	0.835	10.0	5
07071	Vanadium	7440-62-2	0.0021 J	0.0019	0.0100	1
07072	Zinc	7440-66-6	0.0084 J	0.0020	0.0400	1
	SW-846 6020A		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	N.D.	0.00033	0.0020	1
06025	Arsenic	7440-38-2	N.D.	0.00082	0.0040	1
06027	Beryllium	7440-41-7	0.000052 J	0.000045	0.0010	1
06028	Cadmium	7440-43-9	N.D.	0.00017	0.0010	1
06035	Lead	7439-92-1	0.00042 J	0.000082	0.0020	1
06045	Thallium	7440-28-0	N.D.	0.00015	0.0010	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW6(101614) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642515
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 13:35 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1706 SDG#: FTM17-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	VOCs- 25ml Water by 8260B	SW-846 8260B 25mL purge	1	C142971AA	10/25/2014 03:30	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C142971AA	10/25/2014 03:30	Sara E Johnson	1
10589	OC Pesticides in Water	SW-846 8081B	1	142940004A	10/22/2014 19:19	Lisa A Reinert	1
11120	Pesticide Waters Update IV Ext	SW-846 3510C	1	142940004A	10/21/2014 15:40	Kelli M Barto	1
01743	Aluminum	SW-846 6010C	1	142940636001	10/23/2014 23:06	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010C	1	142940636001	10/23/2014 23:06	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	142940636001	10/23/2014 23:06	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	142940636001	10/23/2014 23:06	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	142940636001	10/23/2014 23:06	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	142940636001	10/23/2014 23:06	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010C	1	142940636001	10/23/2014 23:06	Elaine F Stoltzfus	1
01757	Magnesium	SW-846 6010C	1	142940636001	10/23/2014 23:06	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	142940636001	10/23/2014 23:06	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	142940636001	10/23/2014 23:06	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	142940636001	10/23/2014 23:06	Elaine F Stoltzfus	1
07036	Selenium	SW-846 6010C	1	142940636001	10/25/2014 09:18	Deborah A Krady	1
07066	Silver	SW-846 6010C	1	142940636001	10/23/2014 23:06	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	142940636001	10/25/2014 09:22	Deborah A Krady	5
07071	Vanadium	SW-846 6010C	1	142940636001	10/23/2014 23:06	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	142940636001	10/23/2014 23:06	Elaine F Stoltzfus	1
06024	Antimony	SW-846 6020A	1	142940639001A	10/23/2014 10:44	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	142940639001A	10/23/2014 10:44	Choon Y Tian	1
06027	Beryllium	SW-846 6020A	1	142940639001A	10/23/2014 10:44	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	142940639001A	10/23/2014 10:44	Choon Y Tian	1
06035	Lead	SW-846 6020A	1	142940639001A	10/23/2014 10:44	Choon Y Tian	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW6(101614) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642515
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 13:35 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1706 SDG#: FTM17-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06045	Thallium	SW-846 6020A	1	142940639001A	10/23/2014 10:44	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	142945713001	10/22/2014 07:05	Damary Valentin	1
10636	WW/TL SW846 (IV) ICP Dig (tot)	SW-846 3010A	1	142940636001	10/21/2014 23:00	Annamaria Kuhns	1
10639	ICP/MS SW846 (IV) Water Digest	SW-846 3010A modified	1	142940639001	10/21/2014 23:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	142945713001	10/22/2014 00:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

Sample Description: FGGM13-MW7(101614) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642516
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 13:10 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1707 SDG#: FTM17-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	1.0	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	0.5 J	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Cyclohexane	110-82-7	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	Methyl Acetate	79-20-9	N.D.	0.3	1.0	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylcyclohexane	108-87-2	N.D.	0.1	0.5	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	1.4	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	m+p-Xylene	179601-23-1	N.D.	0.1	0.5	1
02898	o-Xylene	95-47-6	N.D.	0.1	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: FGGM13-MW7(101614) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642516
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 13:10 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1707 SDG#: FTM17-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081B**		**ug/l**	**ug/l**	**ug/l**	
10589	Aldrin	309-00-2	N.D.	0.0016	0.0081	1
10589	Alpha BHC	319-84-6	N.D.	0.0024	0.0081	1
10589	Beta BHC	319-85-7	N.D.	0.0028	0.0081	1
10589	Gamma BHC - Lindane	58-89-9	N.D.	0.0016	0.0081	1
10589	Alpha Chlordane	5103-71-9	0.010	0.0024	0.0081	1
10589	Gamma Chlordane	5103-74-2	0.0089	0.0057	0.0081	1
10589	p,p-DDD	72-54-8	N.D.	0.0041	0.016	1
10589	p,p-DDE	72-55-9	N.D.	0.0041	0.016	1
10589	p,p-DDT	50-29-3	N.D.	0.0042	0.016	1
10589	Delta BHC	319-86-8	N.D.	0.0028	0.0081	1
10589	Dieldrin	60-57-1	N.D.	0.0043	0.016	1
10589	Endosulfan I	959-98-8	N.D.	0.0035	0.0081	1
10589	Endosulfan II	33213-65-9	N.D.	0.012	0.016	1
10589	Endosulfan Sulfate	1031-07-8	N.D.	0.0047	0.016	1
10589	Endrin	72-20-8	N.D.	0.0066	0.016	1
10589	Endrin Aldehyde	7421-93-4	N.D.	0.016	0.081	1
10589	Endrin Ketone	53494-70-5	N.D.	0.0041	0.016	1
10589	Heptachlor	76-44-8	N.D.	0.0016	0.0081	1
10589	Heptachlor Epoxide	1024-57-3	N.D.	0.0019	0.0081	1
10589	Methoxychlor	72-43-5	N.D.	0.024	0.081	1
10589	Toxaphene	8001-35-2	N.D.	0.24	0.81	1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.
There was insufficient sample amount for a 3rd extraction.

Metals	**SW-846 6010C**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	5.20	0.0674	0.400	1
07046	Barium	7440-39-3	0.0499	0.00033	0.0100	1
01750	Calcium	7440-70-2	9.24	0.0334	0.400	1
07051	Chromium	7440-47-3	0.0202 J	0.0013	0.0300	1
07052	Cobalt	7440-48-4	0.0051 J	0.0010	0.0100	1
07053	Copper	7440-50-8	0.0291	0.0028	0.0200	1
01754	Iron	7439-89-6	22.6	0.0334	0.400	1
01757	Magnesium	7439-95-4	2.85	0.0167	0.200	1
07058	Manganese	7439-96-5	0.0304	0.00083	0.0100	1
07061	Nickel	7440-02-0	0.0061 J	0.0016	0.0200	1
01762	Potassium	7440-09-7	3.08	0.133	1.00	1
07036	Selenium	7782-49-2	N.D.	0.0048	0.0400	1
07066	Silver	7440-22-4	N.D.	0.0018	0.0100	1
01767	Sodium	7440-23-5	36.3	0.835	10.0	5
07071	Vanadium	7440-62-2	0.0436	0.0019	0.0100	1
07072	Zinc	7440-66-6	0.0250 J	0.0020	0.0400	1
	SW-846 6020A		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	N.D.	0.00033	0.0020	1
06025	Arsenic	7440-38-2	0.0045	0.00082	0.0040	1
06027	Beryllium	7440-41-7	0.00024 J	0.000045	0.0010	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW7(101614) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642516
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 13:10 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1707 SDG#: FTM17-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020A**		**mg/l**	**mg/l**	**mg/l**	
06028	Cadmium	7440-43-9	N.D.	0.00017	0.0010	1
06035	Lead	7439-92-1	0.0055	0.000082	0.0020	1
06045	Thallium	7440-28-0	N.D.	0.00015	0.0010	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	VOCs- 25ml Water by 8260B	SW-846 8260B 25mL purge	1	C142971AA	10/25/2014 03:52	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C142971AA	10/25/2014 03:52	Sara E Johnson	1
10589	OC Pesticides in Water	SW-846 8081B	1	142940004A	10/22/2014 19:31	Lisa A Reinert	1
11120	Pesticide Waters Update IV Ext	SW-846 3510C	1	142940004A	10/21/2014 15:40	Kelli M Barto	1
01743	Aluminum	SW-846 6010C	1	142940636001	10/23/2014 23:10	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010C	1	142940636001	10/23/2014 23:10	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	142940636001	10/23/2014 23:10	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	142940636001	10/23/2014 23:10	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	142940636001	10/23/2014 23:10	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	142940636001	10/23/2014 23:10	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010C	1	142940636001	10/23/2014 23:10	Elaine F Stoltzfus	1
01757	Magnesium	SW-846 6010C	1	142940636001	10/23/2014 23:10	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	142940636001	10/23/2014 23:10	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	142940636001	10/23/2014 23:10	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	142940636001	10/23/2014 23:10	Elaine F Stoltzfus	1
07036	Selenium	SW-846 6010C	1	142940636001	10/25/2014 09:25	Deborah A Krady	1
07066	Silver	SW-846 6010C	1	142940636001	10/23/2014 23:10	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	142940636001	10/25/2014 09:29	Deborah A Krady	5

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW7(101614) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642516
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 13:10 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1707 SDG#: FTM17-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07071	Vanadium	SW-846 6010C	1	142940636001	10/23/2014 23:10	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	142940636001	10/23/2014 23:10	Elaine F Stoltzfus	1
06024	Antimony	SW-846 6020A	1	142940639001A	10/23/2014 10:47	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	142940639001A	10/23/2014 10:47	Choon Y Tian	1
06027	Beryllium	SW-846 6020A	1	142940639001A	10/23/2014 10:47	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	142940639001A	10/23/2014 10:47	Choon Y Tian	1
06035	Lead	SW-846 6020A	1	142940639001A	10/23/2014 10:47	Choon Y Tian	1
06045	Thallium	SW-846 6020A	1	142940639001A	10/23/2014 10:47	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	142945713001	10/22/2014 07:07	Damary Valentin	1
10636	WW/TL SW846 (IV) ICP Dig (tot)	SW-846 3010A	1	142940636001	10/21/2014 23:00	Annamaria Kuhns	1
10639	ICP/MS SW846 (IV) Water Digest	SW-846 3010A modified	1	142940639001	10/21/2014 23:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	142945713001	10/22/2014 00:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

Sample Description: FGGM13-MW8(101614) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642517
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 15:10 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1708 SDG#: FTM17-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	1.0	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	0.2 J	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Cyclohexane	110-82-7	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	Methyl Acetate	79-20-9	N.D.	0.3	1.0	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylcyclohexane	108-87-2	N.D.	0.1	0.5	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	m+p-Xylene	179601-23-1	N.D.	0.1	0.5	1
02898	o-Xylene	95-47-6	N.D.	0.1	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: FGGM13-MW8(101614) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642517
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 15:10 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1708 SDG#: FTM17-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081B**		**ug/l**	**ug/l**	**ug/l**	
10589	Aldrin	309-00-2	N.D.	0.0016	0.0081	1
10589	Alpha BHC	319-84-6	N.D.	0.0024	0.0081	1
10589	Beta BHC	319-85-7	0.0059 J	0.0027	0.0081	1
10589	Gamma BHC - Lindane	58-89-9	0.017	0.0016	0.0081	1
10589	Alpha Chlordane	5103-71-9	0.015	0.0024	0.0081	1
10589	Gamma Chlordane	5103-74-2	0.014	0.0056	0.0081	1
10589	p,p-DDD	72-54-8	N.D.	0.0040	0.016	1
10589	p,p-DDE	72-55-9	N.D.	0.0040	0.016	1
10589	p,p-DDT	50-29-3	N.D.	0.0042	0.016	1
10589	Delta BHC	319-86-8	N.D.	0.0027	0.0081	1
10589	Dieldrin	60-57-1	0.0056 J	0.0043	0.016	1
10589	Endosulfan I	959-98-8	N.D.	0.0035	0.0081	1
10589	Endosulfan II	33213-65-9	N.D.	0.012	0.016	1
10589	Endosulfan Sulfate	1031-07-8	N.D.	0.0047	0.016	1
10589	Endrin	72-20-8	N.D.	0.0065	0.016	1
10589	Endrin Aldehyde	7421-93-4	N.D.	0.016	0.081	1
10589	Endrin Ketone	53494-70-5	N.D.	0.0040	0.016	1
10589	Heptachlor	76-44-8	N.D.	0.0016	0.0081	1
10589	Heptachlor Epoxide	1024-57-3	0.0039 J	0.0019	0.0081	1
10589	Methoxychlor	72-43-5	N.D.	0.024	0.081	1
10589	Toxaphene	8001-35-2	N.D.	0.24	0.81	1
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	1.00	0.0674	0.400	1
07046	Barium	7440-39-3	0.0523	0.00033	0.0100	1
01750	Calcium	7440-70-2	11.2	0.0334	0.400	1
07051	Chromium	7440-47-3	0.0017 J	0.0013	0.0300	1
07052	Cobalt	7440-48-4	0.0013 J	0.0010	0.0100	1
07053	Copper	7440-50-8	0.0034 J	0.0028	0.0200	1
01754	Iron	7439-89-6	1.94	0.0334	0.400	1
01757	Magnesium	7439-95-4	2.61	0.0167	0.200	1
07058	Manganese	7439-96-5	0.0139	0.00083	0.0100	1
07061	Nickel	7440-02-0	N.D.	0.0016	0.0200	1
01762	Potassium	7440-09-7	1.87	0.133	1.00	1
07036	Selenium	7782-49-2	N.D.	0.0048	0.0400	1
07066	Silver	7440-22-4	N.D.	0.0018	0.0100	1
01767	Sodium	7440-23-5	44.9	0.835	10.0	5
07071	Vanadium	7440-62-2	0.0057 J	0.0019	0.0100	1
07072	Zinc	7440-66-6	0.0074 J	0.0020	0.0400	1
	SW-846 6020A		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00052 J	0.00033	0.0020	1
06025	Arsenic	7440-38-2	N.D.	0.00082	0.0040	1
06027	Beryllium	7440-41-7	N.D.	0.000045	0.0010	1
06028	Cadmium	7440-43-9	N.D.	0.00017	0.0010	1
06035	Lead	7439-92-1	0.00096 J	0.000082	0.0020	1
06045	Thallium	7440-28-0	N.D.	0.00015	0.0010	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW8(101614) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642517
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 15:10 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1708 SDG#: FTM17-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
02898	VOCs- 25ml Water by 8260B	SW-846 8260B 25mL purge	1	C142971AA	10/25/2014	04:15	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C142971AA	10/25/2014	04:15	Sara E Johnson	1
10589	OC Pesticides in Water	SW-846 8081B	1	142940004A	10/22/2014	19:43	Lisa A Reinert	1
11120	Pesticide Waters Update IV Ext	SW-846 3510C	1	142940004A	10/21/2014	15:40	Kelli M Barto	1
01743	Aluminum	SW-846 6010C	1	142940636001	10/23/2014	23:14	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010C	1	142940636001	10/23/2014	23:14	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	142940636001	10/23/2014	23:14	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	142940636001	10/23/2014	23:14	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	142940636001	10/23/2014	23:14	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	142940636001	10/23/2014	23:14	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010C	1	142940636001	10/23/2014	23:14	Elaine F Stoltzfus	1
01757	Magnesium	SW-846 6010C	1	142940636001	10/23/2014	23:14	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	142940636001	10/23/2014	23:14	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	142940636001	10/23/2014	23:14	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	142940636001	10/23/2014	23:14	Elaine F Stoltzfus	1
07036	Selenium	SW-846 6010C	1	142940636001	10/25/2014	09:32	Deborah A Krady	1
07066	Silver	SW-846 6010C	1	142940636001	10/23/2014	23:14	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	142940636001	10/25/2014	09:36	Deborah A Krady	5
07071	Vanadium	SW-846 6010C	1	142940636001	10/23/2014	23:14	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	142940636001	10/23/2014	23:14	Elaine F Stoltzfus	1
06024	Antimony	SW-846 6020A	1	142940639001A	10/23/2014	10:49	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	142940639001A	10/23/2014	10:49	Choon Y Tian	1
06027	Beryllium	SW-846 6020A	1	142940639001A	10/23/2014	10:49	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	142940639001A	10/23/2014	10:49	Choon Y Tian	1
06035	Lead	SW-846 6020A	1	142940639001A	10/23/2014	10:49	Choon Y Tian	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW8(101614) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642517
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 15:10 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1708 SDG#: FTM17-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06045	Thallium	SW-846 6020A	1	142940639001A	10/23/2014 10:49	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	142945713001	10/22/2014 07:09	Damary Valentin	1
10636	WW/TL SW846 (IV) ICP Dig (tot)	SW-846 3010A	1	142940636001	10/21/2014 23:00	Annamaria Kuhns	1
10639	ICP/MS SW846 (IV) Water Digest	SW-846 3010A modified	1	142940639001	10/21/2014 23:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	142945713001	10/22/2014 00:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

Sample Description: FGGM13-MW9(101614) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642518
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 15:35 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1709 SDG#: FTM17-10

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l		ug/l	ug/l	
02898	Acetone	67-64-1	N.D.		3.0	5.0	1
02898	Benzene	71-43-2	N.D.		0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.		0.1	0.5	1
02898	Bromoform	75-25-2	N.D.		0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.		0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.		1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.		0.4	1.0	1
02898	Carbon Tetrachloride	56-23-5	N.D.		0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.		0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.		0.1	0.5	1
02898	Chloroform	67-66-3	0.5	J	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.		0.2	0.5	1
02898	Cyclohexane	110-82-7	N.D.		0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.		0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.		0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.		0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.		0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.		0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.		0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.		0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.		0.1	0.5	1
02898	Freon 113	76-13-1	N.D.		0.2	0.5	1
02898	2-Hexanone	591-78-6	N.D.		1.0	5.0	1
02898	Isopropylbenzene	98-82-8	N.D.		0.1	0.5	1
02898	Methyl Acetate	79-20-9	N.D.		0.3	1.0	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	0.3	J	0.1	0.5	1
02898	4-Methyl-2-pentanone	108-10-1	N.D.		1.0	5.0	1
02898	Methylcyclohexane	108-87-2	N.D.		0.1	0.5	1
02898	Methylene Chloride	75-09-2	N.D.		0.2	0.5	1
02898	Styrene	100-42-5	N.D.		0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	12		0.1	0.5	1
02898	Toluene	108-88-3	N.D.		0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
02898	Trichloroethene	79-01-6	0.4	J	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.		0.1	0.5	1
02898	m+p-Xylene	179601-23-1	N.D.		0.1	0.5	1
02898	o-Xylene	95-47-6	N.D.		0.1	0.5	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW9(101614) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642518
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 15:35 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1709 SDG#: FTM17-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081B**		**ug/l**	**ug/l**	**ug/l**	
10589	Aldrin	309-00-2	0.0052 JP	0.0017	0.0084	1
10589	Alpha BHC	319-84-6	0.040	0.0025	0.0084	1
10589	Beta BHC	319-85-7	N.D.	0.0029	0.0084	1
10589	Gamma BHC - Lindane	58-89-9	0.067	0.0017	0.0084	1
10589	Alpha Chlordane	5103-71-9	0.48	0.013	0.042	5
10589	Gamma Chlordane	5103-74-2	0.43	0.029	0.042	5
10589	p,p-DDD	72-54-8	N.D.	0.0042	0.017	1
10589	p,p-DDE	72-55-9	N.D. V	0.0047	0.017	1
10589	p,p-DDT	50-29-3	0.019	0.0044	0.017	1
10589	Delta BHC	319-86-8	0.0080 J	0.0029	0.0084	1
10589	Dieldrin	60-57-1	0.027	0.0045	0.017	1
10589	Endosulfan I	959-98-8	0.024	0.0036	0.0084	1
10589	Endosulfan II	33213-65-9	N.D.	0.013	0.017	1
10589	Endosulfan Sulfate	1031-07-8	0.0082 J	0.0049	0.017	1
10589	Endrin	72-20-8	N.D. V	0.0083	0.017	1
10589	Endrin Aldehyde	7421-93-4	N.D.	0.017	0.084	1
10589	Endrin Ketone	53494-70-5	N.D. V	0.0044	0.017	1
10589	Heptachlor	76-44-8	N.D.	0.0017	0.0084	1
10589	Heptachlor Epoxide	1024-57-3	0.031 P	0.0019	0.0084	1
10589	Methoxychlor	72-43-5	N.D.	0.025	0.084	1
10589	Toxaphene	8001-35-2	N.D.	0.25	0.84	1

"V" - Reporting limits were raised due to interference from the sample matrix.

"P" - A disparity of >40% between the primary and confirmatory analysis occurred. Due to suspected interference, the lower result was reported.

Metals	**SW-846 6010C**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.765	0.0674	0.400	1
07046	Barium	7440-39-3	0.0850	0.00033	0.0100	1
01750	Calcium	7440-70-2	19.5	0.0334	0.400	1
07051	Chromium	7440-47-3	N.D.	0.0013	0.0300	1
07052	Cobalt	7440-48-4	0.0026 J	0.0010	0.0100	1
07053	Copper	7440-50-8	0.0032 J	0.0028	0.0200	1
01754	Iron	7439-89-6	0.811	0.0334	0.400	1
01757	Magnesium	7439-95-4	5.39	0.0167	0.200	1
07058	Manganese	7439-96-5	0.0194	0.00083	0.0100	1
07061	Nickel	7440-02-0	0.0024 J	0.0016	0.0200	1
01762	Potassium	7440-09-7	3.37	0.133	1.00	1
07036	Selenium	7782-49-2	N.D.	0.0048	0.0400	1
07066	Silver	7440-22-4	N.D.	0.0018	0.0100	1
01767	Sodium	7440-23-5	90.3	0.835	10.0	5
07071	Vanadium	7440-62-2	0.0030 J	0.0019	0.0100	1
07072	Zinc	7440-66-6	0.0076 J	0.0020	0.0400	1
	SW-846 6020A		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	N.D.	0.00033	0.0020	1
06025	Arsenic	7440-38-2	N.D.	0.00082	0.0040	1
06027	Beryllium	7440-41-7	0.000048 J	0.000045	0.0010	1
06028	Cadmium	7440-43-9	N.D.	0.00017	0.0010	1
06035	Lead	7439-92-1	0.00044 J	0.000082	0.0020	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW9(101614) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642518
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 15:35 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1709 SDG#: FTM17-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020A**		**mg/l**	**mg/l**	**mg/l**	
06045	Thallium	7440-28-0	N.D.	0.00015	0.0010	1
Metals	**SW-846 7470A**		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	VOCs- 25ml Water by 8260B	SW-846 8260B 25mL purge	1	C142971AA	10/25/2014 04:37	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C142971AA	10/25/2014 04:37	Sara E Johnson	1
10589	OC Pesticides in Water	SW-846 8081B	1	142940004A	10/22/2014 20:58	Lisa A Reinert	1
10589	OC Pesticides in Water	SW-846 8081B	1	142940004A	10/22/2014 21:10	Lisa A Reinert	5
11120	Pesticide Waters Update IV Ext	SW-846 3510C	1	142940004A	10/21/2014 15:40	Kelli M Barto	1
01743	Aluminum	SW-846 6010C	1	142940636001	10/23/2014 23:18	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010C	1	142940636001	10/23/2014 23:18	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	142940636001	10/23/2014 23:18	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	142940636001	10/23/2014 23:18	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	142940636001	10/23/2014 23:18	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	142940636001	10/23/2014 23:18	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010C	1	142940636001	10/23/2014 23:18	Elaine F Stoltzfus	1
01757	Magnesium	SW-846 6010C	1	142940636001	10/23/2014 23:18	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	142940636001	10/23/2014 23:18	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	142940636001	10/23/2014 23:18	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	142940636001	10/23/2014 23:18	Elaine F Stoltzfus	1
07036	Selenium	SW-846 6010C	1	142940636001	10/25/2014 09:46	Deborah A Krady	1
07066	Silver	SW-846 6010C	1	142940636001	10/23/2014 23:18	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	142940636001	10/25/2014 09:50	Deborah A Krady	5
07071	Vanadium	SW-846 6010C	1	142940636001	10/23/2014 23:18	Elaine F Stoltzfus	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW9(101614) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642518
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 15:35 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1709 SDG#: FTM17-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07072	Zinc	SW-846 6010C	1	142940636001	10/23/2014 23:18	Elaine F Stoltzfus	1
06024	Antimony	SW-846 6020A	1	142940639001A	10/23/2014 10:52	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	142940639001A	10/23/2014 10:52	Choon Y Tian	1
06027	Beryllium	SW-846 6020A	1	142940639001A	10/23/2014 10:52	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	142940639001A	10/23/2014 10:52	Choon Y Tian	1
06035	Lead	SW-846 6020A	1	142940639001A	10/23/2014 10:52	Choon Y Tian	1
06045	Thallium	SW-846 6020A	1	142940639001A	10/23/2014 10:52	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	142945713001	10/22/2014 07:11	Damary Valentin	1
10636	WW/TL SW846 (IV) ICP Dig (tot)	SW-846 3010A	1	142940636001	10/21/2014 23:00	Annamaria Kuhns	1
10639	ICP/MS SW846 (IV) Water Digest	SW-846 3010A modified	1	142940639001	10/21/2014 23:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	142945713001	10/22/2014 00:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

Sample Description: FGGM13-DUP01(101614) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642519
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 12:00 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F17FD SDG#: FTM17-11FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	1.0	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	1.2	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Cyclohexane	110-82-7	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	Methyl Acetate	79-20-9	N.D.	0.3	1.0	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylcyclohexane	108-87-2	N.D.	0.1	0.5	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.9	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	m+p-Xylene	179601-23-1	N.D.	0.1	0.5	1
02898	o-Xylene	95-47-6	N.D.	0.1	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: FGGM13-DUP01(101614) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642519
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 12:00 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F17FD SDG#: FTM17-11FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081B**		**ug/l**	**ug/l**	**ug/l**	
10589	Aldrin	309-00-2	0.0034 J	0.0016	0.0082	1
10589	Alpha BHC	319-84-6	N.D.	0.0025	0.0082	1
10589	Beta BHC	319-85-7	0.0042 JP	0.0028	0.0082	1
10589	Gamma BHC - Lindane	58-89-9	0.032	0.0016	0.0082	1
10589	Alpha Chlordane	5103-71-9	0.19	0.012	0.041	5
10589	Gamma Chlordane	5103-74-2	0.17	0.029	0.041	5
10589	p,p-DDD	72-54-8	N.D.	0.0041	0.016	1
10589	p,p-DDE	72-55-9	N.D.	0.0041	0.016	1
10589	p,p-DDT	50-29-3	0.0078 J	0.0043	0.016	1
10589	Delta BHC	319-86-8	N.D.	0.0028	0.0082	1
10589	Dieldrin	60-57-1	0.094	0.0043	0.016	1
10589	Endosulfan I	959-98-8	0.025 P	0.0035	0.0082	1
10589	Endosulfan II	33213-65-9	N.D.	0.012	0.016	1
10589	Endosulfan Sulfate	1031-07-8	0.0094 J	0.0048	0.016	1
10589	Endrin	72-20-8	N.D.	0.0066	0.016	1
10589	Endrin Aldehyde	7421-93-4	N.D.	0.016	0.082	1
10589	Endrin Ketone	53494-70-5	0.012 J	0.0041	0.016	1
10589	Heptachlor	76-44-8	N.D.	0.0016	0.0082	1
10589	Heptachlor Epoxide	1024-57-3	N.D. V	0.022	0.022	1
10589	Methoxychlor	72-43-5	N.D.	0.025	0.082	1
10589	Toxaphene	8001-35-2	N.D.	0.25	0.82	1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.

"V" - Reporting limits were raised due to interference from the sample matrix.

"P" - A disparity of >40% between the primary and confirmatory analysis occurred. Due to suspected interference, the lower result was reported.

Metals	**SW-846 6010C**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.977	0.0674	0.400	1
07046	Barium	7440-39-3	0.0527	0.00033	0.0100	1
01750	Calcium	7440-70-2	21.1	0.0334	0.400	1
07051	Chromium	7440-47-3	0.0022 J	0.0013	0.0300	1
07052	Cobalt	7440-48-4	0.0013 J	0.0010	0.0100	1
07053	Copper	7440-50-8	0.0035 J	0.0028	0.0200	1
01754	Iron	7439-89-6	2.10	0.0334	0.400	1
01757	Magnesium	7439-95-4	3.82	0.0167	0.200	1
07058	Manganese	7439-96-5	0.0150	0.00083	0.0100	1
07061	Nickel	7440-02-0	N.D.	0.0016	0.0200	1
01762	Potassium	7440-09-7	2.44	0.133	1.00	1
07036	Selenium	7782-49-2	N.D.	0.0048	0.0400	1
07066	Silver	7440-22-4	N.D.	0.0018	0.0100	1
01767	Sodium	7440-23-5	38.1	0.835	10.0	5
07071	Vanadium	7440-62-2	0.0047 J	0.0019	0.0100	1
07072	Zinc	7440-66-6	0.0069 J	0.0020	0.0400	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-DUP01(101614) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642519
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 12:00 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F17FD SDG#: FTM17-11FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020A**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	N.D.	0.00033	0.0020	1
06025	Arsenic	7440-38-2	N.D.	0.00082	0.0040	1
06027	Beryllium	7440-41-7	0.000050 J	0.000045	0.0010	1
06028	Cadmium	7440-43-9	N.D.	0.00017	0.0010	1
06035	Lead	7439-92-1	0.00063 J	0.000082	0.0020	1
06045	Thallium	7440-28-0	N.D.	0.00015	0.0010	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	VOCs- 25ml Water by 8260B	SW-846 8260B 25mL purge	1	C142971AA	10/25/2014 05:00	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C142971AA	10/25/2014 05:00	Sara E Johnson	1
10589	OC Pesticides in Water	SW-846 8081B	1	142940004A	10/22/2014 21:23	Lisa A Reinert	1
10589	OC Pesticides in Water	SW-846 8081B	1	142940004A	10/22/2014 21:35	Lisa A Reinert	5
11120	Pesticide Waters Update IV Ext	SW-846 3510C	1	142940004A	10/21/2014 15:40	Kelli M Barto	1
01743	Aluminum	SW-846 6010C	1	142940636001	10/23/2014 23:22	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010C	1	142940636001	10/23/2014 23:22	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	142940636001	10/23/2014 23:22	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	142940636001	10/23/2014 23:22	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	142940636001	10/23/2014 23:22	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	142940636001	10/23/2014 23:22	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010C	1	142940636001	10/23/2014 23:22	Elaine F Stoltzfus	1
01757	Magnesium	SW-846 6010C	1	142940636001	10/23/2014 23:22	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	142940636001	10/23/2014 23:22	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	142940636001	10/23/2014 23:22	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	142940636001	10/23/2014 23:22	Elaine F Stoltzfus	1
07036	Selenium	SW-846 6010C	1	142940636001	10/25/2014 09:53	Deborah A Krady	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-DUP01(101614) Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642519
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 12:00 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F17FD SDG#: FTM17-11FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07066	Silver	SW-846 6010C	1	142940636001	10/23/2014 23:22	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	2	142940636001	10/26/2014 22:22	Tara L Snyder	5
07071	Vanadium	SW-846 6010C	1	142940636001	10/23/2014 23:22	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	142940636001	10/23/2014 23:22	Elaine F Stoltzfus	1
06024	Antimony	SW-846 6020A	1	142940639001A	10/23/2014 10:54	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	142940639001A	10/23/2014 10:54	Choon Y Tian	1
06027	Beryllium	SW-846 6020A	1	142940639001A	10/23/2014 10:54	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	142940639001A	10/23/2014 10:54	Choon Y Tian	1
06035	Lead	SW-846 6020A	1	142940639001A	10/23/2014 10:54	Choon Y Tian	1
06045	Thallium	SW-846 6020A	1	142940639001A	10/23/2014 10:54	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	142945713001	10/22/2014 07:13	Damary Valentin	1
10636	WW/TL SW846 (IV) ICP Dig (tot)	SW-846 3010A	1	142940636001	10/21/2014 23:00	Annamaria Kuhns	1
10639	ICP/MS SW846 (IV) Water Digest	SW-846 3010A modified	1	142940639001	10/21/2014 23:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	142945713001	10/22/2014 00:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

Sample Description: FGGM13-RB(101614) Grab Water
Fort Meade, MD

LL Sample # WW 7642520
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 18:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F17RB SDG#: FTM17-12RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	1.0	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Cyclohexane	110-82-7	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	Methyl Acetate	79-20-9	N.D.	0.3	1.0	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylcyclohexane	108-87-2	N.D.	0.1	0.5	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	m+p-Xylene	179601-23-1	N.D.	0.1	0.5	1
02898	o-Xylene	95-47-6	N.D.	0.1	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: FGGM13-RB(101614) Grab Water
Fort Meade, MD

LL Sample # WW 7642520
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 18:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F17RB SDG#: FTM17-12RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081B**		**ug/l**	**ug/l**	**ug/l**	
10589	Aldrin	309-00-2	N.D.	0.0016	0.0081	1
10589	Alpha BHC	319-84-6	N.D.	0.0024	0.0081	1
10589	Beta BHC	319-85-7	N.D.	0.0027	0.0081	1
10589	Gamma BHC - Lindane	58-89-9	N.D.	0.0016	0.0081	1
10589	Alpha Chlordane	5103-71-9	N.D.	0.0024	0.0081	1
10589	Gamma Chlordane	5103-74-2	N.D.	0.0056	0.0081	1
10589	p,p-DDD	72-54-8	N.D.	0.0040	0.016	1
10589	p,p-DDE	72-55-9	N.D.	0.0040	0.016	1
10589	p,p-DDT	50-29-3	N.D.	0.0042	0.016	1
10589	Delta BHC	319-86-8	N.D.	0.0027	0.0081	1
10589	Dieldrin	60-57-1	N.D.	0.0043	0.016	1
10589	Endosulfan I	959-98-8	N.D.	0.0035	0.0081	1
10589	Endosulfan II	33213-65-9	N.D.	0.012	0.016	1
10589	Endosulfan Sulfate	1031-07-8	N.D.	0.0047	0.016	1
10589	Endrin	72-20-8	N.D.	0.0065	0.016	1
10589	Endrin Aldehyde	7421-93-4	N.D.	0.016	0.081	1
10589	Endrin Ketone	53494-70-5	N.D.	0.0040	0.016	1
10589	Heptachlor	76-44-8	N.D.	0.0016	0.0081	1
10589	Heptachlor Epoxide	1024-57-3	N.D.	0.0019	0.0081	1
10589	Methoxychlor	72-43-5	N.D.	0.024	0.081	1
10589	Toxaphene	8001-35-2	N.D.	0.24	0.81	1
Metals	**SW-846 6010C**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	N.D.	0.0674	0.400	1
07046	Barium	7440-39-3	0.0011 J	0.00033	0.0100	1
01750	Calcium	7440-70-2	0.164 J	0.0334	0.400	1
07051	Chromium	7440-47-3	N.D.	0.0013	0.0300	1
07052	Cobalt	7440-48-4	N.D.	0.0010	0.0100	1
07053	Copper	7440-50-8	N.D.	0.0028	0.0200	1
01754	Iron	7439-89-6	N.D.	0.0334	0.400	1
01757	Magnesium	7439-95-4	0.0479 J	0.0167	0.200	1
07058	Manganese	7439-96-5	N.D.	0.00083	0.0100	1
07061	Nickel	7440-02-0	N.D.	0.0016	0.0200	1
01762	Potassium	7440-09-7	N.D.	0.133	1.00	1
07036	Selenium	7782-49-2	N.D.	0.0048	0.0400	1
07066	Silver	7440-22-4	N.D.	0.0018	0.0100	1
01767	Sodium	7440-23-5	0.357 J	0.167	2.00	1
07071	Vanadium	7440-62-2	N.D.	0.0019	0.0100	1
07072	Zinc	7440-66-6	0.0025 J	0.0020	0.0400	1
	SW-846 6020A		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	N.D.	0.00033	0.0020	1
06025	Arsenic	7440-38-2	N.D.	0.00082	0.0040	1
06027	Beryllium	7440-41-7	N.D.	0.000045	0.0010	1
06028	Cadmium	7440-43-9	N.D.	0.00017	0.0010	1
06035	Lead	7439-92-1	N.D.	0.000082	0.0020	1
06045	Thallium	7440-28-0	N.D.	0.00015	0.0010	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-RB(101614) Grab Water
Fort Meade, MD

LL Sample # WW 7642520
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 18:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F17RB SDG#: FTM17-12RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	VOCs- 25ml Water by 8260B	SW-846 8260B 25mL purge	1	C142971AA	10/25/2014 01:38	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C142971AA	10/25/2014 01:38	Sara E Johnson	1
10589	OC Pesticides in Water	SW-846 8081B	1	142940004A	10/22/2014 19:56	Lisa A Reinert	1
11120	Pesticide Waters Update IV Ext	SW-846 3510C	1	142940004A	10/21/2014 15:40	Kelli M Barto	1
01743	Aluminum	SW-846 6010C	1	142940636001	10/23/2014 23:26	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010C	1	142940636001	10/23/2014 23:26	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010C	1	142940636001	10/23/2014 23:26	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010C	1	142940636001	10/23/2014 23:26	Elaine F Stoltzfus	1
07052	Cobalt	SW-846 6010C	1	142940636001	10/23/2014 23:26	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010C	1	142940636001	10/23/2014 23:26	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010C	1	142940636001	10/23/2014 23:26	Elaine F Stoltzfus	1
01757	Magnesium	SW-846 6010C	1	142940636001	10/23/2014 23:26	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010C	1	142940636001	10/23/2014 23:26	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010C	1	142940636001	10/23/2014 23:26	Elaine F Stoltzfus	1
01762	Potassium	SW-846 6010C	1	142940636001	10/23/2014 23:26	Elaine F Stoltzfus	1
07036	Selenium	SW-846 6010C	1	142940636001	10/25/2014 10:00	Deborah A Krady	1
07066	Silver	SW-846 6010C	1	142940636001	10/23/2014 23:26	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010C	1	142940636001	10/23/2014 23:26	Elaine F Stoltzfus	1
07071	Vanadium	SW-846 6010C	1	142940636001	10/23/2014 23:26	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010C	1	142940636001	10/23/2014 23:26	Elaine F Stoltzfus	1
06024	Antimony	SW-846 6020A	1	142940639001A	10/23/2014 10:57	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	142940639001A	10/23/2014 10:57	Choon Y Tian	1
06027	Beryllium	SW-846 6020A	1	142940639001A	10/23/2014 10:57	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	142940639001A	10/23/2014 10:57	Choon Y Tian	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-RB(101614) Grab Water
Fort Meade, MD

LL Sample # WW 7642520
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 18:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F17RB SDG#: FTM17-12RB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020A	1	142940639001A	10/23/2014 10:57	Choon Y Tian	1
06045	Thallium	SW-846 6020A	1	142940639001A	10/23/2014 10:57	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	142945713001	10/22/2014 07:15	Damary Valentin	1
10636	WW/TL SW846 (IV) ICP Dig (tot)	SW-846 3010A	1	142940636001	10/21/2014 23:00	Annamaria Kuhns	1
10639	ICP/MS SW846 (IV) Water Digest	SW-846 3010A modified	1	142940639001	10/21/2014 23:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	142945713001	10/22/2014 00:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-TB(101714) Water
Fort Meade, MD

LL Sample # WW 7642521
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F17TB SDG#: FTM17-13TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	1.0	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Cyclohexane	110-82-7	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	Methyl Acetate	79-20-9	N.D.	0.3	1.0	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylcyclohexane	108-87-2	N.D.	0.1	0.5	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	m+p-Xylene	179601-23-1	N.D.	0.1	0.5	1
02898	o-Xylene	95-47-6	N.D.	0.1	0.5	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-TB(101714) Water
Fort Meade, MD

LL Sample # WW 7642521
LL Group # 1512018
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014

Submitted: 10/17/2014 19:14
Reported: 10/29/2014 14:14

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F17TB SDG#: FTM17-13TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	VOCs- 25ml Water by 8260B	SW-846 8260B 25mL purge	1	C142971AA	10/25/2014 02:01	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C142971AA	10/25/2014 02:01	Sara E Johnson	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: ARCADIS Group Number: 1512018
Reported: 10/29/14 at 02:14 PM

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

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: C142971AA	Sample number(s): 7642508-7642511,7642515-7642521								
Acetone	N.D.	3.0	5.0	ug/l	104		39-160		
Benzene	N.D.	0.1	0.5	ug/l	93		79-120		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	97		79-125		
Bromoform	N.D.	0.1	0.5	ug/l	105		66-130		
Bromomethane	N.D.	0.1	0.5	ug/l	92		53-141		
2-Butanone	N.D.	1.0	5.0	ug/l	104		56-143		
Carbon Disulfide	N.D.	0.4	1.0	ug/l	82		64-133		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	103		72-136		
Chlorobenzene	N.D.	0.1	0.5	ug/l	99		82-118		
Chloroethane	N.D.	0.1	0.5	ug/l	89		60-138		
Chloroform	N.D.	0.1	0.5	ug/l	100		79-124		
Chloromethane	N.D.	0.2	0.5	ug/l	80		50-139		
Cyclohexane	N.D.	0.1	0.5	ug/l	85		71-130		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	115		62-128		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	101		74-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	106		77-121		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	98		80-119		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	97		80-119		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	97		79-118		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	68		32-152		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	95		77-125		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	104		73-128		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	97		71-131		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	97		78-123		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	98		75-124		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	96		78-122		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	96		75-124		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	105		73-127		
Ethylbenzene	N.D.	0.1	0.5	ug/l	99		79-121		
Freon 113	N.D.	0.2	0.5	ug/l	85		70-136		
2-Hexanone	N.D.	1.0	5.0	ug/l	103		57-139		
Isopropylbenzene	N.D.	0.1	0.5	ug/l	102		72-131		
Methyl Acetate	N.D.	0.3	1.0	ug/l	90		56-136		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	93		71-124		
4-Methyl-2-pentanone	N.D.	1.0	5.0	ug/l	100		67-130		
Methylcyclohexane	N.D.	0.1	0.5	ug/l	101		72-132		
Methylene Chloride	N.D.	0.2	0.5	ug/l	98		74-124		
Styrene	N.D.	0.1	0.5	ug/l	104		78-123		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	102		71-121		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	96		74-129		
Toluene	N.D.	0.1	0.5	ug/l	96		80-121		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	102		69-129		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	98		69-130		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ARCADIS Group Number: 1512018
Reported: 10/29/14 at 02:14 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	96		74-131		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	102		80-119		
Trichloroethene	N.D.	0.1	0.5	ug/l	96		79-123		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	93		65-141		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	86		58-137		
m+p-Xylene	N.D.	0.1	0.5	ug/l	100		80-121		
o-Xylene	N.D.	0.1	0.5	ug/l	100		78-122		
Batch number: C143001AA	Sample number(s): 7642507,7642513-7642514								
Acetone	N.D.	3.0	5.0	ug/l	94	96	39-160	2	30
Benzene	N.D.	0.1	0.5	ug/l	103	101	79-120	2	30
Bromodichloromethane	N.D.	0.1	0.5	ug/l	105	103	79-125	1	30
Bromoform	N.D.	0.1	0.5	ug/l	89	88	66-130	1	30
Bromomethane	N.D.	0.1	0.5	ug/l	107	104	53-141	4	30
2-Butanone	N.D.	1.0	5.0	ug/l	102	103	56-143	2	30
Carbon Disulfide	N.D.	0.4	1.0	ug/l	102	96	64-133	5	30
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	115	108	72-136	7	30
Chlorobenzene	N.D.	0.1	0.5	ug/l	107	104	82-118	2	30
Chloroethane	N.D.	0.1	0.5	ug/l	104	98	60-138	5	30
Chloroform	N.D.	0.1	0.5	ug/l	108	106	79-124	2	30
Chloromethane	N.D.	0.2	0.5	ug/l	106	107	50-139	1	30
Cyclohexane	N.D.	0.1	0.5	ug/l	105	100	71-130	4	30
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	90	93	62-128	3	30
Dibromochloromethane	N.D.	0.1	0.5	ug/l	100	99	74-126	1	30
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	112	111	77-121	1	30
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	104	104	80-119	0	30
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	103	102	80-119	1	30
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	104	103	79-118	1	30
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	129	124	32-152	5	30
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	102	100	77-125	2	30
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	116	114	73-128	2	30
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	108	104	71-131	4	30
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	105	101	78-123	4	30
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	106	103	75-124	3	30
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	104	102	78-122	2	30
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	98	98	75-124	1	30
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	103	103	73-127	0	30
Ethylbenzene	N.D.	0.1	0.5	ug/l	107	105	79-121	3	30
Freon 113	N.D.	0.2	0.5	ug/l	109	103	70-136	6	30
2-Hexanone	N.D.	1.0	5.0	ug/l	113	113	57-139	0	30
Isopropylbenzene	N.D.	0.1	0.5	ug/l	111	107	72-131	4	30
Methyl Acetate	N.D.	0.3	1.0	ug/l	107	99	56-136	7	30
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	100	102	71-124	2	30
4-Methyl-2-pentanone	N.D.	1.0	5.0	ug/l	107	109	67-130	2	30
Methylcyclohexane	N.D.	0.1	0.5	ug/l	108	103	72-132	5	30
Methylene Chloride	N.D.	0.2	0.5	ug/l	108	105	74-124	3	30
Styrene	N.D.	0.1	0.5	ug/l	113	110	78-123	2	30
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	107	106	71-121	1	30
Tetrachloroethene	N.D.	0.1	0.5	ug/l	105	99	74-129	6	30
Toluene	N.D.	0.1	0.5	ug/l	105	101	80-121	4	30
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	96	97	69-129	1	30
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	97	98	69-130	0	30
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	109	102	74-131	6	30
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	108	106	80-119	2	30
Trichloroethene	N.D.	0.1	0.5	ug/l	110	105	79-123	4	30
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	111	106	65-141	4	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ARCADIS Group Number: 1512018
Reported: 10/29/14 at 02:14 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Vinyl Chloride	N.D.	0.1	0.5	ug/l	108	107	58-137	1	30
m+p-Xylene	N.D.	0.1	0.5	ug/l	109	106	80-121	3	30
o-Xylene	N.D.	0.1	0.5	ug/l	108	106	78-122	2	30
Batch number: 142940004A	Sample number(s): 7642507-7642511,7642513-7642520								
Aldrin	N.D.	0.0016	0.0080	ug/l	65		45-134		
Alpha BHC	N.D.	0.0024	0.0080	ug/l	100		54-138		
Beta BHC	N.D.	0.0027	0.0080	ug/l	93		56-136		
Gamma BHC - Lindane	N.D.	0.0016	0.0080	ug/l	94		59-134		
Alpha Chlordane	N.D.	0.0024	0.0080	ug/l	98		60-129		
Gamma Chlordane	N.D.	0.0056	0.0080	ug/l	107		56-136		
p,p-DDD	N.D.	0.0040	0.016	ug/l	115		56-143		
p,p-DDE	N.D.	0.0040	0.016	ug/l	90		57-135		
p,p-DDT	N.D.	0.0042	0.016	ug/l	100		51-143		
Delta BHC	N.D.	0.0027	0.0080	ug/l	99		52-142		
Dieldrin	N.D.	0.0042	0.016	ug/l	95		60-136		
Endosulfan I	N.D.	0.0034	0.0080	ug/l	70		62-126		
Endosulfan II	N.D.	0.012	0.016	ug/l	91		52-135		
Endosulfan Sulfate	N.D.	0.0046	0.016	ug/l	109		62-133		
Endrin	N.D.	0.0065	0.016	ug/l	91		60-138		
Endrin Aldehyde	N.D.	0.016	0.080	ug/l	97		51-132		
Endrin Ketone	N.D.	0.0040	0.016	ug/l	101		58-134		
Heptachlor	N.D.	0.0016	0.0080	ug/l	82		54-130		
Heptachlor Epoxide	N.D.	0.0018	0.0080	ug/l	91		61-133		
Methoxychlor	N.D.	0.024	0.080	ug/l	107		54-145		
Toxaphene	N.D.	0.24	0.80	ug/l					
Batch number: 142970034A	Sample number(s): 7642508								
Ethane	N.D.	1.0	5.0	ug/l	108		85-115		
Ethene	N.D.	1.0	5.0	ug/l	108		83-115		
Methane	N.D.	3.0	5.0	ug/l	110		85-115		
Batch number: 142940636001	Sample number(s): 7642507-7642520								
Aluminum	N.D.	0.0674	0.400	mg/l	109		86-115		
Barium	N.D.	0.00033	0.0100	mg/l	101		88-113		
Calcium	0.0614 J	0.0334	0.400	mg/l	106		87-113		
Chromium	N.D.	0.0013	0.0300	mg/l	99		90-113		
Cobalt	N.D.	0.0010	0.0100	mg/l	103		89-114		
Copper	N.D.	0.0028	0.0200	mg/l	103		86-114		
Iron	N.D.	0.0334	0.400	mg/l	104		87-115		
Magnesium	0.0263 J	0.0167	0.200	mg/l	105		85-113		
Manganese	N.D.	0.00083	0.0100	mg/l	101		90-114		
Nickel	N.D.	0.0016	0.0200	mg/l	104		88-113		
Potassium	N.D.	0.133	1.00	mg/l	104		86-114		
Selenium	N.D.	0.0048	0.0400	mg/l	99		83-114		
Silver	N.D.	0.0018	0.0100	mg/l	97		84-115		
Sodium	N.D.	0.167	2.00	mg/l	104		87-115		
Vanadium	N.D.	0.0019	0.0100	mg/l	101		90-111		
Zinc	0.0025 J	0.0020	0.0400	mg/l	102		87-115		
Batch number: 142940639001A	Sample number(s): 7642507-7642520								
Antimony	N.D.	0.00033	0.0020	mg/l	103		85-117		
Arsenic	N.D.	0.00082	0.0040	mg/l	107		84-116		
Beryllium	N.D.	0.00004 5	0.0010	mg/l	103		83-121		
Cadmium	N.D.	0.00017	0.0010	mg/l	102		87-115		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ARCADIS Group Number: 1512018
Reported: 10/29/14 at 02:14 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Lead	N.D.	0.000082	0.0020	mg/l	106		88-115		
Thallium	N.D.	0.00015	0.0010	mg/l	113		82-116		
Batch number: 142945713001	Sample number(s): 7642507-7642520								
Mercury	N.D.	0.000060	0.00020	mg/l	85		82-119		
Batch number: 14295049501B	Sample number(s): 7642508								
Dissolved Organic Carbon	N.D.	0.50	1.0	mg/l	106		86-114		
Batch number: 14297049501A	Sample number(s): 7642508								
Total Organic Carbon	N.D.	0.50	1.0	mg/l	106		91-113		

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: C142971AA	Sample number(s): 7642508-7642511,7642515-7642521 UNSPK: 7642509								
Acetone	100	89	39-160	11	30				
Benzene	111	109	79-120	2	30				
Bromodichloromethane	115	112	79-125	3	30				
Bromoform	113	109	66-130	4	30				
Bromomethane	100	103	53-141	3	30				
2-Butanone	103	94	56-143	9	30				
Carbon Disulfide	101	99	64-133	2	30				
Carbon Tetrachloride	129	127	72-136	2	30				
Chlorobenzene	114	113	82-118	2	30				
Chloroethane	96	97	60-138	1	30				
Chloroform	116	113	79-124	3	30				
Chloromethane	86	88	50-139	3	30				
Cyclohexane	108	107	71-130	1	30				
1,2-Dibromo-3-chloropropane	114	110	62-128	4	30				
Dibromochloromethane	116	111	74-126	4	30				
1,2-Dibromoethane	118	114	77-121	3	30				
1,2-Dichlorobenzene	113	112	80-119	1	30				
1,3-Dichlorobenzene	112	112	80-119	1	30				
1,4-Dichlorobenzene	114	112	79-118	2	30				
Dichlorodifluoromethane	79	80	32-152	1	30				
1,1-Dichloroethane	111	109	77-125	2	30				
1,2-Dichloroethane	120	117	73-128	3	30				
1,1-Dichloroethene	120	119	71-131	0	30				
cis-1,2-Dichloroethene	128*	118	78-123	3	30				
trans-1,2-Dichloroethene	118	115	75-124	3	30				
1,2-Dichloropropane	110	110	78-122	0	30				
cis-1,3-Dichloropropene	107	107	75-124	0	30				
trans-1,3-Dichloropropene	116	113	73-127	2	30				
Ethylbenzene	116	114	79-121	2	30				
Freon 113	109	107	70-136	2	30				
2-Hexanone	114	111	57-139	3	30				

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

Quality Control Summary

Client Name: ARCADIS Group Number: 1512018
Reported: 10/29/14 at 02:14 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Isopropylbenzene	124	121	72-131	2	30				
Methyl Acetate	92	112	56-136	19	30				
Methyl Tertiary Butyl Ether	105	104	71-124	1	30				
4-Methyl-2-pentanone	108	108	67-130	0	30				
Methylcyclohexane	120	125	72-132	4	30				
Methylene Chloride	113	111	74-124	2	30				
Styrene	121	118	78-123	2	30				
1,1,2,2-Tetrachloroethane	113	110	71-121	2	30				
Tetrachloroethene	120 (2)	109 (2)	74-129	1	30				
Toluene	112	111	80-121	1	30				
1,2,3-Trichlorobenzene	115	116	69-129	0	30				
1,2,4-Trichlorobenzene	115	114	69-130	1	30				
1,1,1-Trichloroethane	118	116	74-131	2	30				
1,1,2-Trichloroethane	115	110	80-119	4	30				
Trichloroethene	121	119	79-123	2	30				
Trichlorofluoromethane	110	111	65-141	2	30				
Vinyl Chloride	96	100	58-137	4	30				
m+p-Xylene	119	116	80-121	3	30				
o-Xylene	118	116	78-122	2	30				
Batch number: 142940004A	Sample number(s): 7642507-7642511,7642513-7642520 UNSPK: 7642509								
Aldrin	110	116	45-134	5	30				
Alpha BHC	153*	145*	54-138	6	30				
Beta BHC	118	109	56-136	7	30				
Gamma BHC - Lindane	104	84	59-134	6	30				
Alpha Chlordane	61 (2)	402 (2)	60-129	14	30				
Gamma Chlordane	356 (2)	806 (2)	56-136	13	30				
p,p-DDD	-152*	-153*	56-143	1	30				
p,p-DDE	56*	56*	57-135	0	30				
p,p-DDT	67	69	51-143	2	30				
Delta BHC	107	90	52-142	13	30				
Dieldrin	93	86	60-136	5	30				
Endosulfan I	97	94	62-126	2	30				
Endosulfan II	135	129	52-135	5	30				
Endosulfan Sulfate	113	105	62-133	7	30				
Endrin	108	104	60-138	5	30				
Endrin Aldehyde	106	102	51-132	5	20				
Endrin Ketone	116	110	58-134	5	30				
Heptachlor	109	108	54-130	1	30				
Heptachlor Epoxide	214*	223*	61-133	3	30				
Methoxychlor	85	85	54-145	0	30				
Batch number: 142970034A	Sample number(s): 7642508 UNSPK: 7642508								
Ethane	103	99	53-122	4	20				
Ethene	112	105	35-162	7	20				
Methane	-21 (2)	-49 (2)	46-129	2	20				
Batch number: 142940636001	Sample number(s): 7642507-7642520 UNSPK: 7642509 BKG: 7642509								
Aluminum	157*	164*	86-115	4	20	0.837	0.769	8 (1)	20
Barium	100	101	88-113	1	20	0.0641	0.0642	0	20
Calcium	102 (2)	111 (2)	87-113	1	20	22.1	21.9	1	20
Chromium	98	99	90-113	1	20	0.0022 J	0.0015 J	38* (1)	20

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ARCADIS Group Number: 1512018
Reported: 10/29/14 at 02:14 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Cobalt	102	103	89-114	1	20	N.D.	N.D.	0 (1)	20
Copper	104	105	86-114	0	20	N.D.	N.D.	0 (1)	20
Iron	94	97	87-115	1	20	1.27	1.25	1 (1)	20
Magnesium	100	103	85-113	1	20	2.39	2.36	1	20
Manganese	100	101	90-114	1	20	0.0041 J	0.0076 J	60* (1)	20
Nickel	102	103	88-113	1	20	N.D.	N.D.	0 (1)	20
Potassium	106	107	86-114	1	20	2.82	2.82	0 (1)	20
Selenium	101	103	83-114	2	20	N.D.	N.D.	0 (1)	20
Silver	96	97	84-115	1	20	N.D.	N.D.	0 (1)	20
Sodium	82 (2)	96 (2)	87-115	1	20	110	117	6	20
Vanadium	101	102	90-111	1	20	0.0032 J	0.0029 J	11 (1)	20
Zinc	92	92	87-115	0	20	0.0602	0.0045 J	172* (1)	20
Batch number: 142940639001A	Sample number(s): 7642507-7642520 UNSPK: 7642509 BKG: 7642509								
Antimony	103	106	85-117	3	20	0.00094 J	0.00073 J	25* (1)	20
Arsenic	97	96	84-116	1	20	0.00096 J	N.D.	200* (1)	20
Beryllium	100	103	83-121	2	20	N.D.	N.D.	0 (1)	20
Cadmium	103	104	87-115	1	20	N.D.	N.D.	0 (1)	20
Lead	105	104	88-115	1	20	0.00039 J	0.00042 J	8 (1)	20
Thallium	107	104	82-116	2	20	N.D.	N.D.	0 (1)	20
Batch number: 142945713001	Sample number(s): 7642507-7642520 UNSPK: 7642509 BKG: 7642509								
Mercury	85	85	82-119	0	20	N.D.	0.000061 J	200* (1)	20
Batch number: 14295049501B	Sample number(s): 7642508 UNSPK: P641952 BKG: P641952								
Dissolved Organic Carbon	110		54-135			1.9	1.9	4* (1)	2
Batch number: 14297049501A	Sample number(s): 7642508 UNSPK: P640403 BKG: P640403								
Total Organic Carbon	107		63-142			3.3	3.3	1 (1)	4

Surrogate Quality Control

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

Analysis Name: VOCs- 25ml Water by 8260B
Batch number: C142971AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7642508	104	100	95	100
7642509	108	106	95	96
7642510	104	104	101	103
7642511	104	101	100	103
7642515	104	101	95	97
7642516	105	100	96	97
7642517	104	102	97	98
7642518	105	101	96	98
7642519	106	105	97	99
7642520	107	103	99	99
7642521	107	104	98	98

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ARCADIS Group Number: 1512018
Reported: 10/29/14 at 02:14 PM

Surrogate Quality Control

Blank	106	105	98	98
LCS	103	102	102	103
MS	104	104	101	103
MSD	104	101	100	103
Limits:	80-119	81-118	89-112	85-114

Analysis Name: VOCs- 25ml Water by 8260B
Batch number: C143001AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7642507	106	104	99	100
7642513	105	105	98	101
7642514	106	101	98	97
Blank	106	105	98	100
LCS	102	101	101	105
LCSD	102	100	101	105
Limits:	80-119	81-118	89-112	85-114

Analysis Name: OC Pesticides in Water
Batch number: 142940004A

	Tetrachloro-m-xylene	Decachlorobiphenyl
7642507	87	76
7642508	87	21*
7642509	90	37
7642510	90	23*
7642511	86	29*
7642513	74	26*
7642514	84	38
7642515	90	36
7642516	78	18*
7642517	89	44
7642518	92	43
7642519	80	29*
7642520	82	41
Blank	86	89
LCS	83	56
MS	90	23*
MSD	86	29*
Limits:	44-124	32-149

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 142970034A

	Propene
7642508	89
Blank	99
LCS	105
MS	93
MSD	87
Limits:	47-116

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

Environmental Analysis Request/Chain of Custody

eurofins

Lancaster Laboratories Environmental

Acct. # 13129 For Eurofins Lancaster Laboratories Environmental use only Group # 1512018 Sample # 7642507-21

Instructions on reverse side correspond with circled numbers.

Page 1 of 2

358080

1 Client Information

Client: ARCADIS

Acct. #:

Project Name/#: Ft Meade Pesticide Shop/GP09MEADPEST

PWSID #:

Project Manager: Tim Llewellyn

P.O. #:

Sampler: Sarah Matteson

Quote #:

Name of state where samples were collected: Maryland

4 Matrix: Soil ☐ Sediment ☐ Water: Potable ☐ Ground ☒ NPDES ☐ Surface ☐ Other: ____

5 Analysis Requested — Preservation Codes

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other H_3PO_4

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Total # of Containers	VOCs 8260B (H)	Total TAL Metals (N)	DISS TAL Metals (N)	OC Pesticides 8081A	Methane, Ethane, Ethene (H)	TOC (H)	Diss Organic Carbon (O)	6 Remarks
FGGM13-MW1R(101714)	10/17/14	1315	X		7	X	X	X	X				
FGGM13-MW2R(101714)	10/17/14	0950	X		13	X	X	X	X	X	X	X	
FGGM13-MW3R(101714)	10/17/14	1015	X		21	X	X	X	X				MS/MSD } KAK1885
FGGM13-MW4R(101614)	10/16/14	1155	X		7	X	X	X	X				~~MS/MSD~~ } 10/20/14
FGGM13-MW5(101614)	10/16/14	1700	X		7	X	X	X	X				
FGGM13-MW6(101614)	10/16/14	1335	X		7	X	X	X	X				
FGGM13-MW7(101614)	10/16/14	1310	X		7	X	X	X	X				
FGGM13-MW8(101614)	10/16/14	1510	X		7	X	X	X	X				
FGGM13-MW9(101614)	10/16/14	1535	X		7	X	X	X	X				
FGGM13-DUP01(101614)	10/16/14	1200	X		7	X	X	X	X				

7 Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: ____

E-mail address: keith.shepherd@arcadis-us.com

8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)

~~Type III (Reduced non-CLP)~~ TX TRRP-13

KAK1885 per Keith Shepherd 10/20/14

Type IV (CLP SOW) MA MCP CT RCP

9

Relinquished by	Date	Time	Received by	Date	Time
[signature]	10/17/14	1654	[signature]	10-17-14	1654
[signature]	10-17-14	1914			
			[signature]	10/17/14	1914

EDD Required? Yes No

If yes, format: EQUIS 5

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS ____ FedEx ____ Other ____

Temperature upon receipt 4.3 - ~~5.4~~ °C PL 10/17/14 5.3

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 13129 For Eurofins Lancaster Laboratories Environmental use only Group # 1512018 Sample # 7642507-21

Instructions on reverse side correspond with circled numbers.

Page 2 of 2

358082

1 Client Information

Client: ARCADIS

Acct. #:

Project Name/#: Ft Meade Pesticide Shop/6P09MEAD.PEST

PWSID #:

Project Manager: Tim Llewellyn

P.O. #:

Sampler: Sarah Matteson

Quote #:

Name of state where samples were collected: Maryland

4 Matrix: Soil ☐ Sediment ☐ Water: Ground ☒ Surface ☐ Potable ☐ NPDES ☐ Other: ____

5 Analysis Requested — Preservation Codes

2 Sample Identification | Collected Date | Time | 3 Grab | Composite | Total # of Containers | VOCs 8260B (H) | Total TAL Metals (N) | Diss TAL Metals (N) | OC Pesticides 8081A

Sample Identification	Date	Time	Grab	Composite	Total # of Containers	VOCs 8260B (H)	Total TAL Metals (N)	Diss TAL Metals (N)	OC Pesticides 8081A
FGGM13-RB(101614)	10/16/14	1815	X		7	X	X	X	X
FGGM13-TB(101714)	10/17/14	—	—		2	X			

For Lab Use Only

FSC: ____

SCR#: ____

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

6 Remarks

7 Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: ____

E-mail address: keith.shepherd@arcadis-us.com

8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)

~~Type III (Reduced non-CLP)~~ KAK1885 per Keith Shepherd 10/20/14 TX TRRP-13

Type IV (CLP SOW) MA MCP CT RCP

9

Relinquished by	Date	Time	Received by	Date	Time
[signature]	10/17/14	1654	[signature]	10-17-14	1654
[signature]	10-17-14	19:14			
			[signature]	10/17/14	19:14

EDD Required? Yes No

If yes, format: EQUIS 5

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS ____ FedEx ____ Other ____

Temperature upon receipt ~~4.3~~ 5.3 °C 10/17/14

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 35260

Group Number(s): 1512018

Client: Arcadis

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	10/17/2014 19:14
Number of Packages:	3	Number of Projects:	1
State/Province of Origin:	MD		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	2
Samples Intact:	Yes	Trip Blank Type:	HCl
Missing Samples:	No	Air Quality Samples Present:	No
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Patrick Engle (3472) at 19:32 on 10/17/2014

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT131	5.3	DT	Wet	Y	Bagged	N
2	DT131	4.3	DT	Wet	Y	Bagged	N
3	DT131	4.8	DT	Wet	Y	Bagged	N

General Comments: MS/MSD sent for sample FGGM13-MW3R(101714).

2425 New Holland Pike
Lancaster, PA 17605-2425
T | 717-656-2300
F | 717-656-2681
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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

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

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

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

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

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

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

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

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

October 30, 2014

Project: Fort Meade

Site: Fort Meade, MD

Submittal Date: 10/17/2014
Group Number: 1512019
SDG: FTM18
PO Number: GP09MEAD.PEST.MD001
State of Sample Origin: MD

Client Sample Description	Lancaster Labs (LL) #
FGGM13-MW1R(101714) Filtered Grab Groundwater	7642522
FGGM13-MW2R(101714) Filtered Grab Groundwater	7642523
FGGM13-MW3R(101714) Filtered Grab Groundwater	7642524
FGGM13-MW3R(101714)MS Filtered Grab Groundwater	7642525
FGGM13-MW3R(101714)MSD Filtered Grab Groundwater	7642526
FGGM13-MW3R(101714)DUP Filtered Grab Groundwater	7642527
FGGM13-MW4R(101614) Filtered Grab Groundwater	7642528
FGGM13-MW5(101614) Filtered Grab Groundwater	7642529
FGGM13-MW6(101614) Filtered Grab Groundwater	7642530
FGGM13-MW7(101614) Filtered Grab Groundwater	7642531
FGGM13-MW8(101614) Filtered Grab Groundwater	7642532
FGGM13-MW9(101614) Filtered Grab Groundwater	7642533
FGGM13-DUP01(101614) Filtered Grab Groundwater	7642534
FGGM13-RB(101614) Filtered Grab Water	7642535

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

ELECTRONIC COPY TO	ARCADIS	Attn: Kenneth Varley
ELECTRONIC COPY TO	ARCADIS	Attn: Keith Shepherd

Respectfully Submitted,

Katherine A. Klinefelter

Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Fort Meade
LL Group #: 1512019

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

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

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

SW-846 6010C, Metals Dissolved

Batch #: 142940636002 (Sample number(s): 7642522-7642535 UNSPK: 7642524 BKG: 7642524)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Sodium

SW-846 6020A, Metals Dissolved

Batch #: 142940639002A (Sample number(s): 7642522-7642535 UNSPK: 7642524 BKG: 7642524)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Arsenic

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Lead

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Analysis Report

Sample Description: FGGM13-MW1R(101714) Filtered Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642522
LL Group # 1512019
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 13:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/30/2014 11:00

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1801 SDG#: FTM18-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**SW-846 6010C**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	25.0	0.135	0.800	2
07046	Barium	7440-39-3	0.0535	0.00033	0.0100	1
01750	Calcium	7440-70-2	57.3	0.167	2.00	5
07051	Chromium	7440-47-3	0.0171 J	0.0013	0.0300	1
07052	Cobalt	7440-48-4	0.0498	0.0010	0.0100	1
07053	Copper	7440-50-8	0.109	0.0028	0.0200	1
01754	Iron	7439-89-6	3.30	0.0334	0.400	1
01757	Magnesium	7439-95-4	13.1	0.0167	0.200	1
07058	Manganese	7439-96-5	0.201	0.00083	0.0100	1
07061	Nickel	7440-02-0	0.102	0.0016	0.0200	1
01762	Potassium	7440-09-7	7.23	0.133	1.00	1
07036	Selenium	7782-49-2	N.D.	0.0048	0.0400	1
07066	Silver	7440-22-4	N.D.	0.0018	0.0100	1
01767	Sodium	7440-23-5	387	3.34	40.0	20
07071	Vanadium	7440-62-2	N.D.	0.0019	0.0100	1
07072	Zinc	7440-66-6	0.182	0.0020	0.0400	1
	SW-846 6020A		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	N.D.	0.00033	0.0020	1
06025	Arsenic	7440-38-2	0.0041	0.00082	0.0040	1
06027	Beryllium	7440-41-7	0.0021	0.000045	0.0010	1
06028	Cadmium	7440-43-9	0.0015	0.00017	0.0010	1
06035	Lead	7439-92-1	0.0112	0.000082	0.0020	1
06045	Thallium	7440-28-0	0.00020 J	0.00015	0.0010	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01743	Aluminum	SW-846 6010C	1	142940636002	10/26/2014 21:38	Tara L Snyder	2
07046	Barium	SW-846 6010C	1	142940636002	10/24/2014 03:35	Tara L Snyder	1
01750	Calcium	SW-846 6010C	1	142940636002	10/25/2014 02:56	Elaine F Stoltzfus	5
07051	Chromium	SW-846 6010C	1	142940636002	10/24/2014 03:35	Tara L Snyder	1
07052	Cobalt	SW-846 6010C	1	142940636002	10/24/2014 03:35	Tara L Snyder	1
07053	Copper	SW-846 6010C	1	142940636002	10/24/2014 03:35	Tara L Snyder	1
01754	Iron	SW-846 6010C	1	142940636002	10/24/2014 03:35	Tara L Snyder	1
01757	Magnesium	SW-846 6010C	1	142940636002	10/24/2014 03:35	Tara L Snyder	1
07058	Manganese	SW-846 6010C	1	142940636002	10/24/2014 03:35	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW1R(101714) Filtered Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642522
LL Group # 1512019
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 13:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/30/2014 11:00

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1801 SDG#: FTM18-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07061	Nickel	SW-846 6010C	1	142940636002	10/24/2014 03:35	Tara L Snyder	1
01762	Potassium	SW-846 6010C	1	142940636002	10/24/2014 03:35	Tara L Snyder	1
07036	Selenium	SW-846 6010C	1	142940636002	10/24/2014 03:35	Tara L Snyder	1
07066	Silver	SW-846 6010C	1	142940636002	10/24/2014 03:35	Tara L Snyder	1
01767	Sodium	SW-846 6010C	1	142940636002	10/26/2014 21:42	Tara L Snyder	20
07071	Vanadium	SW-846 6010C	1	142940636002	10/24/2014 03:35	Tara L Snyder	1
07072	Zinc	SW-846 6010C	1	142940636002	10/24/2014 03:35	Tara L Snyder	1
06024	Antimony	SW-846 6020A	1	142940639002A	10/24/2014 04:39	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	142940639002A	10/24/2014 04:39	Choon Y Tian	1
06027	Beryllium	SW-846 6020A	1	142940639002A	10/24/2014 04:39	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	142940639002A	10/24/2014 04:39	Choon Y Tian	1
06035	Lead	SW-846 6020A	1	142940639002A	10/24/2014 04:39	Choon Y Tian	1
06045	Thallium	SW-846 6020A	1	142940639002A	10/24/2014 04:39	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	142945713002	10/22/2014 11:44	Damary Valentin	1
10636	WW/TL SW846 (IV) ICP Dig (tot)	SW-846 3010A	1	142940636002	10/21/2014 23:00	Annamaria Kuhns	1
10639	ICP/MS SW846 (IV) Water Digest	SW-846 3010A modified	1	142940639002	10/21/2014 23:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	142945713002	10/22/2014 00:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

Sample Description: FGGM13-MW2R(101714) Filtered Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642523
LL Group # 1512019
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 09:50 by SM

Submitted: 10/17/2014 19:14
Reported: 10/30/2014 11:00

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1802 SDG#: FTM18-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**SW-846 6010C**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	N.D.	0.0674	0.400	1
07046	Barium	7440-39-3	0.0487	0.00033	0.0100	1
01750	Calcium	7440-70-2	41.7	0.0668	0.800	2
07051	Chromium	7440-47-3	N.D.	0.0013	0.0300	1
07052	Cobalt	7440-48-4	0.0065 J	0.0010	0.0100	1
07053	Copper	7440-50-8	N.D.	0.0028	0.0200	1
01754	Iron	7439-89-6	17.2	0.0334	0.400	1
01757	Magnesium	7439-95-4	3.81	0.0167	0.200	1
07058	Manganese	7439-96-5	0.691	0.0017	0.0200	2
07061	Nickel	7440-02-0	N.D.	0.0016	0.0200	1
01762	Potassium	7440-09-7	2.75	0.133	1.00	1
07036	Selenium	7782-49-2	N.D.	0.0048	0.0400	1
07066	Silver	7440-22-4	N.D.	0.0018	0.0100	1
01767	Sodium	7440-23-5	80.9	0.835	10.0	5
07071	Vanadium	7440-62-2	N.D.	0.0019	0.0100	1
07072	Zinc	7440-66-6	0.0076 J	0.0020	0.0400	1
	SW-846 6020A		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	N.D.	0.00033	0.0020	1
06025	Arsenic	7440-38-2	0.772	0.0041	0.0200	5
06027	Beryllium	7440-41-7	N.D.	0.000045	0.0010	1
06028	Cadmium	7440-43-9	N.D.	0.00017	0.0010	1
06035	Lead	7439-92-1	N.D.	0.000082	0.0020	1
06045	Thallium	7440-28-0	N.D.	0.00015	0.0010	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01743	Aluminum	SW-846 6010C	1	142940636002	10/24/2014 03:39	Tara L Snyder	1
07046	Barium	SW-846 6010C	1	142940636002	10/24/2014 03:39	Tara L Snyder	1
01750	Calcium	SW-846 6010C	1	142940636002	10/25/2014 03:13	Elaine F Stoltzfus	2
07051	Chromium	SW-846 6010C	1	142940636002	10/24/2014 03:39	Tara L Snyder	1
07052	Cobalt	SW-846 6010C	1	142940636002	10/24/2014 03:39	Tara L Snyder	1
07053	Copper	SW-846 6010C	1	142940636002	10/24/2014 03:39	Tara L Snyder	1
01754	Iron	SW-846 6010C	1	142940636002	10/24/2014 03:39	Tara L Snyder	1
01757	Magnesium	SW-846 6010C	1	142940636002	10/24/2014 03:39	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW2R(101714) Filtered Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642523
LL Group # 1512019
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 09:50 by SM

Submitted: 10/17/2014 19:14
Reported: 10/30/2014 11:00

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1802 SDG#: FTM18-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07058	Manganese	SW-846 6010C	1	142940636002	10/25/2014 03:13	Elaine F Stoltzfus	2
07061	Nickel	SW-846 6010C	1	142940636002	10/24/2014 03:39	Tara L Snyder	1
01762	Potassium	SW-846 6010C	1	142940636002	10/24/2014 03:39	Tara L Snyder	1
07036	Selenium	SW-846 6010C	1	142940636002	10/24/2014 03:39	Tara L Snyder	1
07066	Silver	SW-846 6010C	1	142940636002	10/24/2014 03:39	Tara L Snyder	1
01767	Sodium	SW-846 6010C	1	142940636002	10/26/2014 21:46	Tara L Snyder	5
07071	Vanadium	SW-846 6010C	1	142940636002	10/24/2014 03:39	Tara L Snyder	1
07072	Zinc	SW-846 6010C	1	142940636002	10/24/2014 03:39	Tara L Snyder	1
06024	Antimony	SW-846 6020A	1	142940639002A	10/24/2014 04:42	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	142940639002A	10/24/2014 05:14	Choon Y Tian	5
06027	Beryllium	SW-846 6020A	1	142940639002A	10/24/2014 04:42	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	142940639002A	10/24/2014 04:42	Choon Y Tian	1
06035	Lead	SW-846 6020A	1	142940639002A	10/24/2014 04:42	Choon Y Tian	1
06045	Thallium	SW-846 6020A	1	142940639002A	10/24/2014 04:42	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	142945713002	10/22/2014 11:46	Damary Valentin	1
10636	WW/TL SW846 (IV) ICP Dig (tot)	SW-846 3010A	1	142940636002	10/21/2014 23:00	Annamaria Kuhns	1
10639	ICP/MS SW846 (IV) Water Digest	SW-846 3010A modified	1	142940639002	10/21/2014 23:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	142945713002	10/22/2014 00:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

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Lancaster Laboratories Environmental
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Analysis Report

Sample Description: FGGM13-MW3R(101714) Filtered Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642524
LL Group # 1512019
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 10:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/30/2014 11:00

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1803 SDG#: FTM18-03BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**SW-846 6010C**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	N.D.	0.0674	0.400	1
07046	Barium	7440-39-3	0.0610	0.00033	0.0100	1
01750	Calcium	7440-70-2	22.0	0.0334	0.400	1
07051	Chromium	7440-47-3	N.D.	0.0013	0.0300	1
07052	Cobalt	7440-48-4	N.D.	0.0010	0.0100	1
07053	Copper	7440-50-8	N.D.	0.0028	0.0200	1
01754	Iron	7439-89-6	N.D.	0.0334	0.400	1
01757	Magnesium	7439-95-4	2.34	0.0167	0.200	1
07058	Manganese	7439-96-5	0.0022 J	0.00083	0.0100	1
07061	Nickel	7440-02-0	N.D.	0.0016	0.0200	1
01762	Potassium	7440-09-7	2.65	0.133	1.00	1
07036	Selenium	7782-49-2	N.D.	0.0048	0.0400	1
07066	Silver	7440-22-4	N.D.	0.0018	0.0100	1
01767	Sodium	7440-23-5	112	1.67	20.0	10
07071	Vanadium	7440-62-2	N.D.	0.0019	0.0100	1
07072	Zinc	7440-66-6	0.0040 J	0.0020	0.0400	1
	SW-846 6020A		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00078 J	0.00033	0.0020	1
06025	Arsenic	7440-38-2	N.D.	0.00082	0.0040	1
06027	Beryllium	7440-41-7	N.D.	0.000045	0.0010	1
06028	Cadmium	7440-43-9	N.D.	0.00017	0.0010	1
06035	Lead	7439-92-1	0.00012 J	0.000082	0.0020	1
06045	Thallium	7440-28-0	N.D.	0.00015	0.0010	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01743	Aluminum	SW-846 6010C	1	142940636002	10/24/2014 03:10	Tara L Snyder	1
07046	Barium	SW-846 6010C	1	142940636002	10/24/2014 03:10	Tara L Snyder	1
01750	Calcium	SW-846 6010C	1	142940636002	10/24/2014 03:10	Tara L Snyder	1
07051	Chromium	SW-846 6010C	1	142940636002	10/24/2014 03:10	Tara L Snyder	1
07052	Cobalt	SW-846 6010C	1	142940636002	10/24/2014 03:10	Tara L Snyder	1
07053	Copper	SW-846 6010C	1	142940636002	10/24/2014 03:10	Tara L Snyder	1
01754	Iron	SW-846 6010C	1	142940636002	10/24/2014 03:10	Tara L Snyder	1
01757	Magnesium	SW-846 6010C	1	142940636002	10/24/2014 03:10	Tara L Snyder	1
07058	Manganese	SW-846 6010C	1	142940636002	10/24/2014 03:10	Tara L Snyder	1
07061	Nickel	SW-846 6010C	1	142940636002	10/24/2014 03:10	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW3R(101714) Filtered Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642524
LL Group # 1512019
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 10:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/30/2014 11:00

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1803 SDG#: FTM18-03BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01762	Potassium	SW-846 6010C	1	142940636002	10/24/2014 03:10	Tara L Snyder	1
07036	Selenium	SW-846 6010C	1	142940636002	10/24/2014 03:10	Tara L Snyder	1
07066	Silver	SW-846 6010C	1	142940636002	10/24/2014 03:10	Tara L Snyder	1
01767	Sodium	SW-846 6010C	1	142940636002	10/26/2014 21:16	Tara L Snyder	10
07071	Vanadium	SW-846 6010C	1	142940636002	10/24/2014 03:10	Tara L Snyder	1
07072	Zinc	SW-846 6010C	1	142940636002	10/24/2014 03:10	Tara L Snyder	1
06024	Antimony	SW-846 6020A	1	142940639002A	10/24/2014 04:24	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	142940639002A	10/24/2014 04:24	Choon Y Tian	1
06027	Beryllium	SW-846 6020A	1	142940639002A	10/24/2014 04:24	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	142940639002A	10/24/2014 04:24	Choon Y Tian	1
06035	Lead	SW-846 6020A	1	142940639002A	10/24/2014 04:24	Choon Y Tian	1
06045	Thallium	SW-846 6020A	1	142940639002A	10/24/2014 04:24	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	142945713002	10/22/2014 11:36	Damary Valentin	1
10636	WW/TL SW846 (IV) ICP Dig (tot)	SW-846 3010A	1	142940636002	10/21/2014 23:00	Annamaria Kuhns	1
10639	ICP/MS SW846 (IV) Water Digest	SW-846 3010A modified	1	142940639002	10/21/2014 23:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	142945713002	10/22/2014 00:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW3R(101714)MS Filtered Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642525
LL Group # 1512019
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 10:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/30/2014 11:00

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1803 SDG#: FTM18-03MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**SW-846 6010C**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	2.12	0.0674	0.400	1
07046	Barium	7440-39-3	2.05	0.00033	0.0100	1
01750	Calcium	7440-70-2	26.0	0.0334	0.400	1
07051	Chromium	7440-47-3	0.199	0.0013	0.0300	1
07052	Cobalt	7440-48-4	0.508	0.0010	0.0100	1
07053	Copper	7440-50-8	0.257	0.0028	0.0200	1
01754	Iron	7439-89-6	1.03	0.0334	0.400	1
01757	Magnesium	7439-95-4	4.35	0.0167	0.200	1
07058	Manganese	7439-96-5	0.498	0.00083	0.0100	1
07061	Nickel	7440-02-0	0.510	0.0016	0.0200	1
01762	Potassium	7440-09-7	13.0	0.133	1.00	1
07036	Selenium	7782-49-2	0.153	0.0048	0.0400	1
07066	Silver	7440-22-4	0.0485	0.0018	0.0100	1
01767	Sodium	7440-23-5	127	1.67	20.0	10
07071	Vanadium	7440-62-2	0.509	0.0019	0.0100	1
07072	Zinc	7440-66-6	0.524	0.0020	0.0400	1
	SW-846 6020A		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.0074	0.00033	0.0020	1
06025	Arsenic	7440-38-2	0.0119	0.00082	0.0040	1
06027	Beryllium	7440-41-7	0.0040	0.000045	0.0010	1
06028	Cadmium	7440-43-9	0.0052	0.00017	0.0010	1
06035	Lead	7439-92-1	0.0157	0.000082	0.0020	1
06045	Thallium	7440-28-0	0.0020	0.00015	0.0010	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.00092	0.000060	0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01743	Aluminum	SW-846 6010C	1	142940636002	10/24/2014 03:22	Tara L Snyder	1
07046	Barium	SW-846 6010C	1	142940636002	10/24/2014 03:22	Tara L Snyder	1
01750	Calcium	SW-846 6010C	1	142940636002	10/24/2014 03:22	Tara L Snyder	1
07051	Chromium	SW-846 6010C	1	142940636002	10/24/2014 03:22	Tara L Snyder	1
07052	Cobalt	SW-846 6010C	1	142940636002	10/24/2014 03:22	Tara L Snyder	1
07053	Copper	SW-846 6010C	1	142940636002	10/24/2014 03:22	Tara L Snyder	1
01754	Iron	SW-846 6010C	1	142940636002	10/24/2014 03:22	Tara L Snyder	1
01757	Magnesium	SW-846 6010C	1	142940636002	10/24/2014 03:22	Tara L Snyder	1
07058	Manganese	SW-846 6010C	1	142940636002	10/24/2014 03:22	Tara L Snyder	1
07061	Nickel	SW-846 6010C	1	142940636002	10/24/2014 03:22	Tara L Snyder	1

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Analysis Report

Sample Description: FGGM13-MW3R(101714)MS Filtered Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642525
LL Group # 1512019
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 10:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/30/2014 11:00

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1803 SDG#: FTM18-03MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01762	Potassium	SW-846 6010C	1	142940636002	10/24/2014 03:22	Tara L Snyder	1
07036	Selenium	SW-846 6010C	1	142940636002	10/24/2014 03:22	Tara L Snyder	1
07066	Silver	SW-846 6010C	1	142940636002	10/24/2014 03:22	Tara L Snyder	1
01767	Sodium	SW-846 6010C	1	142940636002	10/26/2014 21:27	Tara L Snyder	10
07071	Vanadium	SW-846 6010C	1	142940636002	10/24/2014 03:22	Tara L Snyder	1
07072	Zinc	SW-846 6010C	1	142940636002	10/24/2014 03:22	Tara L Snyder	1
06024	Antimony	SW-846 6020A	1	142940639002A	10/24/2014 04:32	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	142940639002A	10/24/2014 04:32	Choon Y Tian	1
06027	Beryllium	SW-846 6020A	1	142940639002A	10/24/2014 04:32	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	142940639002A	10/24/2014 04:32	Choon Y Tian	1
06035	Lead	SW-846 6020A	1	142940639002A	10/24/2014 04:32	Choon Y Tian	1
06045	Thallium	SW-846 6020A	1	142940639002A	10/24/2014 04:32	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	142945713002	10/22/2014 11:40	Damary Valentin	1
10636	WW/TL SW846 (IV) ICP Dig (tot)	SW-846 3010A	1	142940636002	10/21/2014 23:00	Annamaria Kuhns	1
10639	ICP/MS SW846 (IV) Water Digest	SW-846 3010A modified	1	142940639002	10/21/2014 23:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	142945713002	10/22/2014 00:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW3R(101714)MSD Filtered Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642526
LL Group # 1512019
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 10:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/30/2014 11:00

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1803 SDG#: FTM18-03MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**SW-846 6010C**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	2.12	0.0674	0.400	1
07046	Barium	7440-39-3	2.04	0.00033	0.0100	1
01750	Calcium	7440-70-2	25.7	0.0334	0.400	1
07051	Chromium	7440-47-3	0.200	0.0013	0.0300	1
07052	Cobalt	7440-48-4	0.509	0.0010	0.0100	1
07053	Copper	7440-50-8	0.256	0.0028	0.0200	1
01754	Iron	7439-89-6	1.02	0.0334	0.400	1
01757	Magnesium	7439-95-4	4.33	0.0167	0.200	1
07058	Manganese	7439-96-5	0.497	0.00083	0.0100	1
07061	Nickel	7440-02-0	0.511	0.0016	0.0200	1
01762	Potassium	7440-09-7	13.0	0.133	1.00	1
07036	Selenium	7782-49-2	0.155	0.0048	0.0400	1
07066	Silver	7440-22-4	0.0476	0.0018	0.0100	1
01767	Sodium	7440-23-5	119	1.67	20.0	10
07071	Vanadium	7440-62-2	0.511	0.0019	0.0100	1
07072	Zinc	7440-66-6	0.520	0.0020	0.0400	1
	SW-846 6020A		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.0071	0.00033	0.0020	1
06025	Arsenic	7440-38-2	0.0115	0.00082	0.0040	1
06027	Beryllium	7440-41-7	0.0042	0.000045	0.0010	1
06028	Cadmium	7440-43-9	0.0050	0.00017	0.0010	1
06035	Lead	7439-92-1	0.0156	0.000082	0.0020	1
06045	Thallium	7440-28-0	0.0022	0.00015	0.0010	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.00097	0.000060	0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01743	Aluminum	SW-846 6010C	1	142940636002	10/24/2014 03:26	Tara L Snyder	1
07046	Barium	SW-846 6010C	1	142940636002	10/24/2014 03:26	Tara L Snyder	1
01750	Calcium	SW-846 6010C	1	142940636002	10/24/2014 03:26	Tara L Snyder	1
07051	Chromium	SW-846 6010C	1	142940636002	10/24/2014 03:26	Tara L Snyder	1
07052	Cobalt	SW-846 6010C	1	142940636002	10/24/2014 03:26	Tara L Snyder	1
07053	Copper	SW-846 6010C	1	142940636002	10/24/2014 03:26	Tara L Snyder	1
01754	Iron	SW-846 6010C	1	142940636002	10/24/2014 03:26	Tara L Snyder	1
01757	Magnesium	SW-846 6010C	1	142940636002	10/24/2014 03:26	Tara L Snyder	1
07058	Manganese	SW-846 6010C	1	142940636002	10/24/2014 03:26	Tara L Snyder	1
07061	Nickel	SW-846 6010C	1	142940636002	10/24/2014 03:26	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW3R(101714)MSD Filtered Grab Groundwater Fort Meade, MD

LL Sample # WW 7642526
LL Group # 1512019
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 10:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/30/2014 11:00

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1803 SDG#: FTM18-03MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01762	Potassium	SW-846 6010C	1	142940636002	10/24/2014 03:26	Tara L Snyder	1
07036	Selenium	SW-846 6010C	1	142940636002	10/24/2014 03:26	Tara L Snyder	1
07066	Silver	SW-846 6010C	1	142940636002	10/24/2014 03:26	Tara L Snyder	1
01767	Sodium	SW-846 6010C	1	142940636002	10/26/2014 21:31	Tara L Snyder	10
07071	Vanadium	SW-846 6010C	1	142940636002	10/24/2014 03:26	Tara L Snyder	1
07072	Zinc	SW-846 6010C	1	142940636002	10/24/2014 03:26	Tara L Snyder	1
06024	Antimony	SW-846 6020A	1	142940639002A	10/24/2014 04:34	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	142940639002A	10/24/2014 04:34	Choon Y Tian	1
06027	Beryllium	SW-846 6020A	1	142940639002A	10/24/2014 04:34	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	142940639002A	10/24/2014 04:34	Choon Y Tian	1
06035	Lead	SW-846 6020A	1	142940639002A	10/24/2014 04:34	Choon Y Tian	1
06045	Thallium	SW-846 6020A	1	142940639002A	10/24/2014 04:34	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	142945713002	10/22/2014 11:42	Damary Valentin	1
10636	WW/TL SW846 (IV) ICP Dig (tot)	SW-846 3010A	1	142940636002	10/21/2014 23:00	Annamaria Kuhns	1
10639	ICP/MS SW846 (IV) Water Digest	SW-846 3010A modified	1	142940639002	10/21/2014 23:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	142945713002	10/22/2014 00:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW3R(101714)DUP Filtered Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642527
LL Group # 1512019
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 10:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/30/2014 11:00

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1803 SDG#: FTM18-03DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**SW-846 6010C**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	N.D.	0.0674	0.400	1
07046	Barium	7440-39-3	0.0599	0.00033	0.0100	1
01750	Calcium	7440-70-2	21.7	0.0334	0.400	1
07051	Chromium	7440-47-3	N.D.	0.0013	0.0300	1
07052	Cobalt	7440-48-4	N.D.	0.0010	0.0100	1
07053	Copper	7440-50-8	N.D.	0.0028	0.0200	1
01754	Iron	7439-89-6	N.D.	0.0334	0.400	1
01757	Magnesium	7439-95-4	2.30	0.0167	0.200	1
07058	Manganese	7439-96-5	0.0022 J	0.00083	0.0100	1
07061	Nickel	7440-02-0	N.D.	0.0016	0.0200	1
01762	Potassium	7440-09-7	2.68	0.133	1.00	1
07036	Selenium	7782-49-2	N.D.	0.0048	0.0400	1
07066	Silver	7440-22-4	N.D.	0.0018	0.0100	1
01767	Sodium	7440-23-5	110	1.67	20.0	10
07071	Vanadium	7440-62-2	N.D.	0.0019	0.0100	1
07072	Zinc	7440-66-6	0.0046 J	0.0020	0.0400	1
	SW-846 6020A		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00068 J	0.00033	0.0020	1
06025	Arsenic	7440-38-2	N.D.	0.00082	0.0040	1
06027	Beryllium	7440-41-7	N.D.	0.000045	0.0010	1
06028	Cadmium	7440-43-9	N.D.	0.00017	0.0010	1
06035	Lead	7439-92-1	N.D.	0.000082	0.0020	1
06045	Thallium	7440-28-0	N.D.	0.00015	0.0010	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01743	Aluminum	SW-846 6010C	1	142940636002	10/24/2014 03:18	Tara L Snyder	1
07046	Barium	SW-846 6010C	1	142940636002	10/24/2014 03:18	Tara L Snyder	1
01750	Calcium	SW-846 6010C	1	142940636002	10/24/2014 03:18	Tara L Snyder	1
07051	Chromium	SW-846 6010C	1	142940636002	10/24/2014 03:18	Tara L Snyder	1
07052	Cobalt	SW-846 6010C	1	142940636002	10/24/2014 03:18	Tara L Snyder	1
07053	Copper	SW-846 6010C	1	142940636002	10/24/2014 03:18	Tara L Snyder	1
01754	Iron	SW-846 6010C	1	142940636002	10/24/2014 03:18	Tara L Snyder	1
01757	Magnesium	SW-846 6010C	1	142940636002	10/24/2014 03:18	Tara L Snyder	1
07058	Manganese	SW-846 6010C	1	142940636002	10/24/2014 03:18	Tara L Snyder	1
07061	Nickel	SW-846 6010C	1	142940636002	10/24/2014 03:18	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW3R(101714)DUP Filtered Grab Groundwater Fort Meade, MD

LL Sample # WW 7642527
LL Group # 1512019
Account # 13129

Project Name: Fort Meade

Collected: 10/17/2014 10:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/30/2014 11:00

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1803 SDG#: FTM18-03DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01762	Potassium	SW-846 6010C	1	142940636002	10/24/2014 03:18	Tara L Snyder	1
07036	Selenium	SW-846 6010C	1	142940636002	10/24/2014 03:18	Tara L Snyder	1
07066	Silver	SW-846 6010C	1	142940636002	10/24/2014 03:18	Tara L Snyder	1
01767	Sodium	SW-846 6010C	1	142940636002	10/26/2014 21:24	Tara L Snyder	10
07071	Vanadium	SW-846 6010C	1	142940636002	10/24/2014 03:18	Tara L Snyder	1
07072	Zinc	SW-846 6010C	1	142940636002	10/24/2014 03:18	Tara L Snyder	1
06024	Antimony	SW-846 6020A	1	142940639002A	10/24/2014 04:29	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	142940639002A	10/24/2014 04:29	Choon Y Tian	1
06027	Beryllium	SW-846 6020A	1	142940639002A	10/24/2014 04:29	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	142940639002A	10/24/2014 04:29	Choon Y Tian	1
06035	Lead	SW-846 6020A	1	142940639002A	10/24/2014 04:29	Choon Y Tian	1
06045	Thallium	SW-846 6020A	1	142940639002A	10/24/2014 04:29	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	142945713002	10/22/2014 11:38	Damary Valentin	1
10636	WW/TL SW846 (IV) ICP Dig (tot)	SW-846 3010A	1	142940636002	10/21/2014 23:00	Annamaria Kuhns	1
10639	ICP/MS SW846 (IV) Water Digest	SW-846 3010A modified	1	142940639002	10/21/2014 23:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	142945713002	10/22/2014 00:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW4R(101614) Filtered Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642528
LL Group # 1512019
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 11:55 by SM

Submitted: 10/17/2014 19:14
Reported: 10/30/2014 11:00

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1804 SDG#: FTM18-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**SW-846 6010C**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	N.D.	0.0674	0.400	1
07046	Barium	7440-39-3	0.0460	0.00033	0.0100	1
01750	Calcium	7440-70-2	20.1	0.0334	0.400	1
07051	Chromium	7440-47-3	N.D.	0.0013	0.0300	1
07052	Cobalt	7440-48-4	N.D.	0.0010	0.0100	1
07053	Copper	7440-50-8	N.D.	0.0028	0.0200	1
01754	Iron	7439-89-6	N.D.	0.0334	0.400	1
01757	Magnesium	7439-95-4	3.58	0.0167	0.200	1
07058	Manganese	7439-96-5	0.0122	0.00083	0.0100	1
07061	Nickel	7440-02-0	N.D.	0.0016	0.0200	1
01762	Potassium	7440-09-7	2.10	0.133	1.00	1
07036	Selenium	7782-49-2	N.D.	0.0048	0.0400	1
07066	Silver	7440-22-4	N.D.	0.0018	0.0100	1
01767	Sodium	7440-23-5	38.7	0.334	4.00	2
07071	Vanadium	7440-62-2	N.D.	0.0019	0.0100	1
07072	Zinc	7440-66-6	0.0065 J	0.0020	0.0400	1
	SW-846 6020A		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	N.D.	0.00033	0.0020	1
06025	Arsenic	7440-38-2	N.D.	0.00082	0.0040	1
06027	Beryllium	7440-41-7	N.D.	0.000045	0.0010	1
06028	Cadmium	7440-43-9	N.D.	0.00017	0.0010	1
06035	Lead	7439-92-1	0.000089 J	0.000082	0.0020	1
06045	Thallium	7440-28-0	N.D.	0.00015	0.0010	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01743	Aluminum	SW-846 6010C	1	142940636002	10/24/2014 03:51	Tara L Snyder	1
07046	Barium	SW-846 6010C	1	142940636002	10/24/2014 03:51	Tara L Snyder	1
01750	Calcium	SW-846 6010C	1	142940636002	10/24/2014 03:51	Tara L Snyder	1
07051	Chromium	SW-846 6010C	1	142940636002	10/24/2014 03:51	Tara L Snyder	1
07052	Cobalt	SW-846 6010C	1	142940636002	10/24/2014 03:51	Tara L Snyder	1
07053	Copper	SW-846 6010C	1	142940636002	10/24/2014 03:51	Tara L Snyder	1
01754	Iron	SW-846 6010C	1	142940636002	10/24/2014 03:51	Tara L Snyder	1
01757	Magnesium	SW-846 6010C	1	142940636002	10/24/2014 03:51	Tara L Snyder	1
07058	Manganese	SW-846 6010C	1	142940636002	10/24/2014 03:51	Tara L Snyder	1
07061	Nickel	SW-846 6010C	1	142940636002	10/24/2014 03:51	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW4R(101614) Filtered Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642528
LL Group # 1512019
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 11:55 by SM

Submitted: 10/17/2014 19:14
Reported: 10/30/2014 11:00

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1804 SDG#: FTM18-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01762	Potassium	SW-846 6010C	1	142940636002	10/24/2014 03:51	Tara L Snyder	1
07036	Selenium	SW-846 6010C	1	142940636002	10/24/2014 03:51	Tara L Snyder	1
07066	Silver	SW-846 6010C	1	142940636002	10/24/2014 03:51	Tara L Snyder	1
01767	Sodium	SW-846 6010C	1	142940636002	10/26/2014 21:49	Tara L Snyder	2
07071	Vanadium	SW-846 6010C	1	142940636002	10/24/2014 03:51	Tara L Snyder	1
07072	Zinc	SW-846 6010C	1	142940636002	10/24/2014 03:51	Tara L Snyder	1
06024	Antimony	SW-846 6020A	1	142940639002A	10/24/2014 04:49	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	142940639002A	10/24/2014 04:49	Choon Y Tian	1
06027	Beryllium	SW-846 6020A	1	142940639002A	10/24/2014 04:49	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	142940639002A	10/24/2014 04:49	Choon Y Tian	1
06035	Lead	SW-846 6020A	1	142940639002A	10/24/2014 04:49	Choon Y Tian	1
06045	Thallium	SW-846 6020A	1	142940639002A	10/24/2014 04:49	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	142945713002	10/22/2014 11:48	Damary Valentin	1
10636	WW/TL SW846 (IV) ICP Dig (tot)	SW-846 3010A	1	142940636002	10/21/2014 23:00	Annamaria Kuhns	1
10639	ICP/MS SW846 (IV) Water Digest	SW-846 3010A modified	1	142940639002	10/21/2014 23:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	142945713002	10/22/2014 00:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

Sample Description: FGGM13-MW5(101614) Filtered Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642529
LL Group # 1512019
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 17:00 by SM

Submitted: 10/17/2014 19:14
Reported: 10/30/2014 11:00

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1805 SDG#: FTM18-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**SW-846 6010C**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0734 J	0.0674	0.400	1
07046	Barium	7440-39-3	0.189	0.00033	0.0100	1
01750	Calcium	7440-70-2	27.3	0.0668	0.800	2
07051	Chromium	7440-47-3	N.D.	0.0013	0.0300	1
07052	Cobalt	7440-48-4	0.0036 J	0.0010	0.0100	1
07053	Copper	7440-50-8	N.D.	0.0028	0.0200	1
01754	Iron	7439-89-6	N.D.	0.0334	0.400	1
01757	Magnesium	7439-95-4	9.52	0.0167	0.200	1
07058	Manganese	7439-96-5	0.0563	0.00083	0.0100	1
07061	Nickel	7440-02-0	0.0055 J	0.0016	0.0200	1
01762	Potassium	7440-09-7	4.14	0.133	1.00	1
07036	Selenium	7782-49-2	N.D.	0.0048	0.0400	1
07066	Silver	7440-22-4	N.D.	0.0018	0.0100	1
01767	Sodium	7440-23-5	126	1.67	20.0	10
07071	Vanadium	7440-62-2	N.D.	0.0019	0.0100	1
07072	Zinc	7440-66-6	0.0107 J	0.0020	0.0400	1
	SW-846 6020A		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	N.D.	0.00033	0.0020	1
06025	Arsenic	7440-38-2	N.D.	0.00082	0.0040	1
06027	Beryllium	7440-41-7	0.000049 J	0.000045	0.0010	1
06028	Cadmium	7440-43-9	0.00022 J	0.00017	0.0010	1
06035	Lead	7439-92-1	0.00020 J	0.000082	0.0020	1
06045	Thallium	7440-28-0	N.D.	0.00015	0.0010	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01743	Aluminum	SW-846 6010C	1	142940636002	10/24/2014 03:55	Tara L Snyder	1
07046	Barium	SW-846 6010C	1	142940636002	10/24/2014 03:55	Tara L Snyder	1
01750	Calcium	SW-846 6010C	1	142940636002	10/25/2014 03:20	Elaine F Stoltzfus	2
07051	Chromium	SW-846 6010C	1	142940636002	10/24/2014 03:55	Tara L Snyder	1
07052	Cobalt	SW-846 6010C	1	142940636002	10/24/2014 03:55	Tara L Snyder	1
07053	Copper	SW-846 6010C	1	142940636002	10/24/2014 03:55	Tara L Snyder	1
01754	Iron	SW-846 6010C	1	142940636002	10/24/2014 03:55	Tara L Snyder	1
01757	Magnesium	SW-846 6010C	1	142940636002	10/24/2014 03:55	Tara L Snyder	1
07058	Manganese	SW-846 6010C	1	142940636002	10/24/2014 03:55	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW5(101614) Filtered Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642529
LL Group # 1512019
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 17:00 by SM

Submitted: 10/17/2014 19:14
Reported: 10/30/2014 11:00

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1805 SDG#: FTM18-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
07061	Nickel	SW-846 6010C	1	142940636002	10/24/2014	03:55	Tara L Snyder	1
01762	Potassium	SW-846 6010C	1	142940636002	10/24/2014	03:55	Tara L Snyder	1
07036	Selenium	SW-846 6010C	1	142940636002	10/24/2014	03:55	Tara L Snyder	1
07066	Silver	SW-846 6010C	1	142940636002	10/24/2014	03:55	Tara L Snyder	1
01767	Sodium	SW-846 6010C	1	142940636002	10/26/2014	22:00	Tara L Snyder	10
07071	Vanadium	SW-846 6010C	1	142940636002	10/24/2014	03:55	Tara L Snyder	1
07072	Zinc	SW-846 6010C	1	142940636002	10/24/2014	03:55	Tara L Snyder	1
06024	Antimony	SW-846 6020A	1	142940639002A	10/24/2014	04:52	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	142940639002A	10/24/2014	04:52	Choon Y Tian	1
06027	Beryllium	SW-846 6020A	1	142940639002A	10/24/2014	04:52	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	142940639002A	10/24/2014	04:52	Choon Y Tian	1
06035	Lead	SW-846 6020A	1	142940639002A	10/24/2014	04:52	Choon Y Tian	1
06045	Thallium	SW-846 6020A	1	142940639002A	10/24/2014	04:52	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	142945713002	10/22/2014	11:54	Damary Valentin	1
10636	WW/TL SW846 (IV) ICP Dig (tot)	SW-846 3010A	1	142940636002	10/21/2014	23:00	Annamaria Kuhns	1
10639	ICP/MS SW846 (IV) Water Digest	SW-846 3010A modified	1	142940639002	10/21/2014	23:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	142945713002	10/22/2014	00:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW6(101614) Filtered Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642530
LL Group # 1512019
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 13:35 by SM

Submitted: 10/17/2014 19:14
Reported: 10/30/2014 11:00

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1806 SDG#: FTM18-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**SW-846 6010C**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	N.D.	0.0674	0.400	1
07046	Barium	7440-39-3	0.0885	0.00033	0.0100	1
01750	Calcium	7440-70-2	14.8	0.0334	0.400	1
07051	Chromium	7440-47-3	N.D.	0.0013	0.0300	1
07052	Cobalt	7440-48-4	0.0020 J	0.0010	0.0100	1
07053	Copper	7440-50-8	N.D.	0.0028	0.0200	1
01754	Iron	7439-89-6	N.D.	0.0334	0.400	1
01757	Magnesium	7439-95-4	4.87	0.0167	0.200	1
07058	Manganese	7439-96-5	0.0208	0.00083	0.0100	1
07061	Nickel	7440-02-0	0.0036 J	0.0016	0.0200	1
01762	Potassium	7440-09-7	2.77	0.133	1.00	1
07036	Selenium	7782-49-2	N.D.	0.0048	0.0400	1
07066	Silver	7440-22-4	N.D.	0.0018	0.0100	1
01767	Sodium	7440-23-5	39.6	0.334	4.00	2
07071	Vanadium	7440-62-2	N.D.	0.0019	0.0100	1
07072	Zinc	7440-66-6	0.0131 J	0.0020	0.0400	1
	SW-846 6020A		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	N.D.	0.00033	0.0020	1
06025	Arsenic	7440-38-2	N.D.	0.00082	0.0040	1
06027	Beryllium	7440-41-7	N.D.	0.000045	0.0010	1
06028	Cadmium	7440-43-9	N.D.	0.00017	0.0010	1
06035	Lead	7439-92-1	0.00031 J	0.000082	0.0020	1
06045	Thallium	7440-28-0	N.D.	0.00015	0.0010	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01743	Aluminum	SW-846 6010C	1	142940636002	10/24/2014 03:59	Tara L Snyder	1
07046	Barium	SW-846 6010C	1	142940636002	10/24/2014 03:59	Tara L Snyder	1
01750	Calcium	SW-846 6010C	1	142940636002	10/24/2014 03:59	Tara L Snyder	1
07051	Chromium	SW-846 6010C	1	142940636002	10/24/2014 03:59	Tara L Snyder	1
07052	Cobalt	SW-846 6010C	1	142940636002	10/24/2014 03:59	Tara L Snyder	1
07053	Copper	SW-846 6010C	1	142940636002	10/24/2014 03:59	Tara L Snyder	1
01754	Iron	SW-846 6010C	1	142940636002	10/24/2014 03:59	Tara L Snyder	1
01757	Magnesium	SW-846 6010C	1	142940636002	10/24/2014 03:59	Tara L Snyder	1
07058	Manganese	SW-846 6010C	1	142940636002	10/24/2014 03:59	Tara L Snyder	1
07061	Nickel	SW-846 6010C	1	142940636002	10/24/2014 03:59	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW6(101614) Filtered Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642530
LL Group # 1512019
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 13:35 by SM

Submitted: 10/17/2014 19:14
Reported: 10/30/2014 11:00

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1806 SDG#: FTM18-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01762	Potassium	SW-846 6010C	1	142940636002	10/24/2014 03:59	Tara L Snyder	1
07036	Selenium	SW-846 6010C	1	142940636002	10/24/2014 03:59	Tara L Snyder	1
07066	Silver	SW-846 6010C	1	142940636002	10/24/2014 03:59	Tara L Snyder	1
01767	Sodium	SW-846 6010C	1	142940636002	10/26/2014 22:04	Tara L Snyder	2
07071	Vanadium	SW-846 6010C	1	142940636002	10/24/2014 03:59	Tara L Snyder	1
07072	Zinc	SW-846 6010C	1	142940636002	10/24/2014 03:59	Tara L Snyder	1
06024	Antimony	SW-846 6020A	1	142940639002A	10/24/2014 04:54	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	142940639002A	10/24/2014 04:54	Choon Y Tian	1
06027	Beryllium	SW-846 6020A	1	142940639002A	10/24/2014 04:54	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	142940639002A	10/24/2014 04:54	Choon Y Tian	1
06035	Lead	SW-846 6020A	1	142940639002A	10/24/2014 04:54	Choon Y Tian	1
06045	Thallium	SW-846 6020A	1	142940639002A	10/24/2014 04:54	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	142945713002	10/22/2014 11:56	Damary Valentin	1
10636	WW/TL SW846 (IV) ICP Dig (tot)	SW-846 3010A	1	142940636002	10/21/2014 23:00	Annamaria Kuhns	1
10639	ICP/MS SW846 (IV) Water Digest	SW-846 3010A modified	1	142940639002	10/21/2014 23:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	142945713002	10/22/2014 00:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW7(101614) Filtered Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642531
LL Group # 1512019
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 13:10 by SM

Submitted: 10/17/2014 19:14
Reported: 10/30/2014 11:00

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1807 SDG#: FTM18-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**SW-846 6010C**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	N.D.	0.0674	0.400	1
07046	Barium	7440-39-3	0.0208	0.00033	0.0100	1
01750	Calcium	7440-70-2	8.94	0.0334	0.400	1
07051	Chromium	7440-47-3	N.D.	0.0013	0.0300	1
07052	Cobalt	7440-48-4	0.0033 J	0.0010	0.0100	1
07053	Copper	7440-50-8	N.D.	0.0028	0.0200	1
01754	Iron	7439-89-6	N.D.	0.0334	0.400	1
01757	Magnesium	7439-95-4	2.59	0.0167	0.200	1
07058	Manganese	7439-96-5	0.0177	0.00083	0.0100	1
07061	Nickel	7440-02-0	0.0042 J	0.0016	0.0200	1
01762	Potassium	7440-09-7	1.88	0.133	1.00	1
07036	Selenium	7782-49-2	N.D.	0.0048	0.0400	1
07066	Silver	7440-22-4	N.D.	0.0018	0.0100	1
01767	Sodium	7440-23-5	37.3	0.334	4.00	2
07071	Vanadium	7440-62-2	N.D.	0.0019	0.0100	1
07072	Zinc	7440-66-6	0.0114 J	0.0020	0.0400	1
	SW-846 6020A		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	N.D.	0.00033	0.0020	1
06025	Arsenic	7440-38-2	N.D.	0.00082	0.0040	1
06027	Beryllium	7440-41-7	0.000048 J	0.000045	0.0010	1
06028	Cadmium	7440-43-9	N.D.	0.00017	0.0010	1
06035	Lead	7439-92-1	0.000095 J	0.000082	0.0020	1
06045	Thallium	7440-28-0	N.D.	0.00015	0.0010	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01743	Aluminum	SW-846 6010C	1	142940636002	10/24/2014 04:03	Tara L Snyder	1
07046	Barium	SW-846 6010C	1	142940636002	10/24/2014 04:03	Tara L Snyder	1
01750	Calcium	SW-846 6010C	1	142940636002	10/24/2014 04:03	Tara L Snyder	1
07051	Chromium	SW-846 6010C	1	142940636002	10/24/2014 04:03	Tara L Snyder	1
07052	Cobalt	SW-846 6010C	1	142940636002	10/24/2014 04:03	Tara L Snyder	1
07053	Copper	SW-846 6010C	1	142940636002	10/24/2014 04:03	Tara L Snyder	1
01754	Iron	SW-846 6010C	1	142940636002	10/24/2014 04:03	Tara L Snyder	1
01757	Magnesium	SW-846 6010C	1	142940636002	10/24/2014 04:03	Tara L Snyder	1
07058	Manganese	SW-846 6010C	1	142940636002	10/24/2014 04:03	Tara L Snyder	1
07061	Nickel	SW-846 6010C	1	142940636002	10/24/2014 04:03	Tara L Snyder	1

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Analysis Report

Sample Description: FGGM13-MW7(101614) Filtered Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642531
LL Group # 1512019
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 13:10 by SM

Submitted: 10/17/2014 19:14
Reported: 10/30/2014 11:00

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1807 SDG#: FTM18-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01762	Potassium	SW-846 6010C	1	142940636002	10/24/2014 04:03	Tara L Snyder	1
07036	Selenium	SW-846 6010C	1	142940636002	10/24/2014 04:03	Tara L Snyder	1
07066	Silver	SW-846 6010C	1	142940636002	10/24/2014 04:03	Tara L Snyder	1
01767	Sodium	SW-846 6010C	1	142940636002	10/26/2014 22:08	Tara L Snyder	2
07071	Vanadium	SW-846 6010C	1	142940636002	10/24/2014 04:03	Tara L Snyder	1
07072	Zinc	SW-846 6010C	1	142940636002	10/24/2014 04:03	Tara L Snyder	1
06024	Antimony	SW-846 6020A	1	142940639002A	10/24/2014 04:56	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	142940639002A	10/24/2014 04:56	Choon Y Tian	1
06027	Beryllium	SW-846 6020A	1	142940639002A	10/24/2014 04:56	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	142940639002A	10/24/2014 04:56	Choon Y Tian	1
06035	Lead	SW-846 6020A	1	142940639002A	10/24/2014 04:56	Choon Y Tian	1
06045	Thallium	SW-846 6020A	1	142940639002A	10/24/2014 04:56	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	142945713002	10/22/2014 11:58	Damary Valentin	1
10636	WW/TL SW846 (IV) ICP Dig (tot)	SW-846 3010A	1	142940636002	10/21/2014 23:00	Annamaria Kuhns	1
10639	ICP/MS SW846 (IV) Water Digest	SW-846 3010A modified	1	142940639002	10/21/2014 23:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	142945713002	10/22/2014 00:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW8(101614) Filtered Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642532
LL Group # 1512019
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 15:10 by SM

Submitted: 10/17/2014 19:14
Reported: 10/30/2014 11:00

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1808 SDG#: FTM18-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**SW-846 6010C**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	N.D.	0.0674	0.400	1
07046	Barium	7440-39-3	0.0436	0.00033	0.0100	1
01750	Calcium	7440-70-2	10.9	0.0334	0.400	1
07051	Chromium	7440-47-3	N.D.	0.0013	0.0300	1
07052	Cobalt	7440-48-4	N.D.	0.0010	0.0100	1
07053	Copper	7440-50-8	N.D.	0.0028	0.0200	1
01754	Iron	7439-89-6	N.D.	0.0334	0.400	1
01757	Magnesium	7439-95-4	2.47	0.0167	0.200	1
07058	Manganese	7439-96-5	0.0126	0.00083	0.0100	1
07061	Nickel	7440-02-0	N.D.	0.0016	0.0200	1
01762	Potassium	7440-09-7	1.59	0.133	1.00	1
07036	Selenium	7782-49-2	N.D.	0.0048	0.0400	1
07066	Silver	7440-22-4	N.D.	0.0018	0.0100	1
01767	Sodium	7440-23-5	43.9	0.835	10.0	5
07071	Vanadium	7440-62-2	N.D.	0.0019	0.0100	1
07072	Zinc	7440-66-6	0.0056 J	0.0020	0.0400	1
	SW-846 6020A		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	N.D.	0.00033	0.0020	1
06025	Arsenic	7440-38-2	N.D.	0.00082	0.0040	1
06027	Beryllium	7440-41-7	N.D.	0.000045	0.0010	1
06028	Cadmium	7440-43-9	N.D.	0.00017	0.0010	1
06035	Lead	7439-92-1	0.00014 J	0.000082	0.0020	1
06045	Thallium	7440-28-0	N.D.	0.00015	0.0010	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01743	Aluminum	SW-846 6010C	1	142940636002	10/24/2014 04:07	Tara L Snyder	1
07046	Barium	SW-846 6010C	1	142940636002	10/24/2014 04:07	Tara L Snyder	1
01750	Calcium	SW-846 6010C	1	142940636002	10/24/2014 04:07	Tara L Snyder	1
07051	Chromium	SW-846 6010C	1	142940636002	10/24/2014 04:07	Tara L Snyder	1
07052	Cobalt	SW-846 6010C	1	142940636002	10/24/2014 04:07	Tara L Snyder	1
07053	Copper	SW-846 6010C	1	142940636002	10/24/2014 04:07	Tara L Snyder	1
01754	Iron	SW-846 6010C	1	142940636002	10/24/2014 04:07	Tara L Snyder	1
01757	Magnesium	SW-846 6010C	1	142940636002	10/24/2014 04:07	Tara L Snyder	1
07058	Manganese	SW-846 6010C	1	142940636002	10/24/2014 04:07	Tara L Snyder	1
07061	Nickel	SW-846 6010C	1	142940636002	10/24/2014 04:07	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW8(101614) Filtered Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642532
LL Group # 1512019
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 15:10 by SM

Submitted: 10/17/2014 19:14
Reported: 10/30/2014 11:00

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1808 SDG#: FTM18-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01762	Potassium	SW-846 6010C	1	142940636002	10/24/2014 04:07	Tara L Snyder	1
07036	Selenium	SW-846 6010C	1	142940636002	10/24/2014 04:07	Tara L Snyder	1
07066	Silver	SW-846 6010C	1	142940636002	10/24/2014 04:07	Tara L Snyder	1
01767	Sodium	SW-846 6010C	1	142940636002	10/26/2014 22:11	Tara L Snyder	5
07071	Vanadium	SW-846 6010C	1	142940636002	10/24/2014 04:07	Tara L Snyder	1
07072	Zinc	SW-846 6010C	1	142940636002	10/24/2014 04:07	Tara L Snyder	1
06024	Antimony	SW-846 6020A	1	142940639002A	10/24/2014 04:59	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	142940639002A	10/24/2014 04:59	Choon Y Tian	1
06027	Beryllium	SW-846 6020A	1	142940639002A	10/24/2014 04:59	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	142940639002A	10/24/2014 04:59	Choon Y Tian	1
06035	Lead	SW-846 6020A	1	142940639002A	10/24/2014 04:59	Choon Y Tian	1
06045	Thallium	SW-846 6020A	1	142940639002A	10/24/2014 04:59	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	142945713002	10/22/2014 12:00	Damary Valentin	1
10636	WW/TL SW846 (IV) ICP Dig (tot)	SW-846 3010A	1	142940636002	10/21/2014 23:00	Annamaria Kuhns	1
10639	ICP/MS SW846 (IV) Water Digest	SW-846 3010A modified	1	142940639002	10/21/2014 23:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	142945713002	10/22/2014 00:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW9(101614) Filtered Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642533
LL Group # 1512019
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 15:35 by SM

Submitted: 10/17/2014 19:14
Reported: 10/30/2014 11:00

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1809 SDG#: FTM18-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**SW-846 6010C**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	N.D.	0.0674	0.400	1
07046	Barium	7440-39-3	0.0834	0.00033	0.0100	1
01750	Calcium	7440-70-2	19.4	0.0334	0.400	1
07051	Chromium	7440-47-3	N.D.	0.0013	0.0300	1
07052	Cobalt	7440-48-4	0.0021 J	0.0010	0.0100	1
07053	Copper	7440-50-8	N.D.	0.0028	0.0200	1
01754	Iron	7439-89-6	N.D.	0.0334	0.400	1
01757	Magnesium	7439-95-4	5.31	0.0167	0.200	1
07058	Manganese	7439-96-5	0.0190	0.00083	0.0100	1
07061	Nickel	7440-02-0	0.0029 J	0.0016	0.0200	1
01762	Potassium	7440-09-7	3.29	0.133	1.00	1
07036	Selenium	7782-49-2	N.D.	0.0048	0.0400	1
07066	Silver	7440-22-4	N.D.	0.0018	0.0100	1
01767	Sodium	7440-23-5	94.8	0.835	10.0	5
07071	Vanadium	7440-62-2	N.D.	0.0019	0.0100	1
07072	Zinc	7440-66-6	0.0124 J	0.0020	0.0400	1
	SW-846 6020A		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	N.D.	0.00033	0.0020	1
06025	Arsenic	7440-38-2	N.D.	0.00082	0.0040	1
06027	Beryllium	7440-41-7	0.000058 J	0.000045	0.0010	1
06028	Cadmium	7440-43-9	N.D.	0.00017	0.0010	1
06035	Lead	7439-92-1	0.00010 J	0.000082	0.0020	1
06045	Thallium	7440-28-0	N.D.	0.00015	0.0010	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01743	Aluminum	SW-846 6010C	1	142940636002	10/24/2014 04:11	Tara L Snyder	1
07046	Barium	SW-846 6010C	1	142940636002	10/24/2014 04:11	Tara L Snyder	1
01750	Calcium	SW-846 6010C	1	142940636002	10/24/2014 04:11	Tara L Snyder	1
07051	Chromium	SW-846 6010C	1	142940636002	10/24/2014 04:11	Tara L Snyder	1
07052	Cobalt	SW-846 6010C	1	142940636002	10/24/2014 04:11	Tara L Snyder	1
07053	Copper	SW-846 6010C	1	142940636002	10/24/2014 04:11	Tara L Snyder	1
01754	Iron	SW-846 6010C	1	142940636002	10/24/2014 04:11	Tara L Snyder	1
01757	Magnesium	SW-846 6010C	1	142940636002	10/24/2014 04:11	Tara L Snyder	1
07058	Manganese	SW-846 6010C	1	142940636002	10/24/2014 04:11	Tara L Snyder	1
07061	Nickel	SW-846 6010C	1	142940636002	10/24/2014 04:11	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-MW9(101614) Filtered Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642533
LL Group # 1512019
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 15:35 by SM

Submitted: 10/17/2014 19:14
Reported: 10/30/2014 11:00

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F1809 SDG#: FTM18-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01762	Potassium	SW-846 6010C	1	142940636002	10/24/2014 04:11	Tara L Snyder	1
07036	Selenium	SW-846 6010C	1	142940636002	10/24/2014 04:11	Tara L Snyder	1
07066	Silver	SW-846 6010C	1	142940636002	10/24/2014 04:11	Tara L Snyder	1
01767	Sodium	SW-846 6010C	1	142940636002	10/26/2014 22:15	Tara L Snyder	5
07071	Vanadium	SW-846 6010C	1	142940636002	10/24/2014 04:11	Tara L Snyder	1
07072	Zinc	SW-846 6010C	1	142940636002	10/24/2014 04:11	Tara L Snyder	1
06024	Antimony	SW-846 6020A	1	142940639002A	10/24/2014 05:01	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	142940639002A	10/24/2014 05:01	Choon Y Tian	1
06027	Beryllium	SW-846 6020A	1	142940639002A	10/24/2014 05:01	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	142940639002A	10/24/2014 05:01	Choon Y Tian	1
06035	Lead	SW-846 6020A	1	142940639002A	10/24/2014 05:01	Choon Y Tian	1
06045	Thallium	SW-846 6020A	1	142940639002A	10/24/2014 05:01	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	142945713002	10/22/2014 12:02	Damary Valentin	1
10636	WW/TL SW846 (IV) ICP Dig (tot)	SW-846 3010A	1	142940636002	10/21/2014 23:00	Annamaria Kuhns	1
10639	ICP/MS SW846 (IV) Water Digest	SW-846 3010A modified	1	142940639002	10/21/2014 23:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	142945713002	10/22/2014 00:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-DUP01(101614) Filtered Grab Groundwater
Fort Meade, MD

LL Sample # WW 7642534
LL Group # 1512019
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 12:00 by SM

Submitted: 10/17/2014 19:14
Reported: 10/30/2014 11:00

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F18FD SDG#: FTM18-10FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**SW-846 6010C**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	N.D.	0.0674	0.400	1
07046	Barium	7440-39-3	0.0456	0.00033	0.0100	1
01750	Calcium	7440-70-2	20.3	0.0334	0.400	1
07051	Chromium	7440-47-3	N.D.	0.0013	0.0300	1
07052	Cobalt	7440-48-4	N.D.	0.0010	0.0100	1
07053	Copper	7440-50-8	N.D.	0.0028	0.0200	1
01754	Iron	7439-89-6	N.D.	0.0334	0.400	1
01757	Magnesium	7439-95-4	3.64	0.0167	0.200	1
07058	Manganese	7439-96-5	0.0122	0.00083	0.0100	1
07061	Nickel	7440-02-0	N.D.	0.0016	0.0200	1
01762	Potassium	7440-09-7	2.10	0.133	1.00	1
07036	Selenium	7782-49-2	N.D.	0.0048	0.0400	1
07066	Silver	7440-22-4	N.D.	0.0018	0.0100	1
01767	Sodium	7440-23-5	35.1	0.334	4.00	2
07071	Vanadium	7440-62-2	N.D.	0.0019	0.0100	1
07072	Zinc	7440-66-6	0.0057 J	0.0020	0.0400	1
	SW-846 6020A		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	N.D.	0.00033	0.0020	1
06025	Arsenic	7440-38-2	N.D.	0.00082	0.0040	1
06027	Beryllium	7440-41-7	N.D.	0.000045	0.0010	1
06028	Cadmium	7440-43-9	N.D.	0.00017	0.0010	1
06035	Lead	7439-92-1	0.00013 J	0.000082	0.0020	1
06045	Thallium	7440-28-0	N.D.	0.00015	0.0010	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01743	Aluminum	SW-846 6010C	1	142940636002	10/24/2014 04:15	Tara L Snyder	1
07046	Barium	SW-846 6010C	1	142940636002	10/24/2014 04:15	Tara L Snyder	1
01750	Calcium	SW-846 6010C	1	142940636002	10/24/2014 04:15	Tara L Snyder	1
07051	Chromium	SW-846 6010C	1	142940636002	10/24/2014 04:15	Tara L Snyder	1
07052	Cobalt	SW-846 6010C	1	142940636002	10/24/2014 04:15	Tara L Snyder	1
07053	Copper	SW-846 6010C	1	142940636002	10/24/2014 04:15	Tara L Snyder	1
01754	Iron	SW-846 6010C	1	142940636002	10/24/2014 04:15	Tara L Snyder	1
01757	Magnesium	SW-846 6010C	1	142940636002	10/24/2014 04:15	Tara L Snyder	1
07058	Manganese	SW-846 6010C	1	142940636002	10/24/2014 04:15	Tara L Snyder	1
07061	Nickel	SW-846 6010C	1	142940636002	10/24/2014 04:15	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-DUP01(101614) Filtered Grab Groundwater Fort Meade, MD

LL Sample # WW 7642534
LL Group # 1512019
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 12:00 by SM

Submitted: 10/17/2014 19:14
Reported: 10/30/2014 11:00

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F18FD SDG#: FTM18-10FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01762	Potassium	SW-846 6010C	1	142940636002	10/24/2014 04:15	Tara L Snyder	1
07036	Selenium	SW-846 6010C	1	142940636002	10/24/2014 04:15	Tara L Snyder	1
07066	Silver	SW-846 6010C	1	142940636002	10/24/2014 04:15	Tara L Snyder	1
01767	Sodium	SW-846 6010C	1	142940636002	10/26/2014 22:19	Tara L Snyder	2
07071	Vanadium	SW-846 6010C	1	142940636002	10/24/2014 04:15	Tara L Snyder	1
07072	Zinc	SW-846 6010C	1	142940636002	10/24/2014 04:15	Tara L Snyder	1
06024	Antimony	SW-846 6020A	1	142940639002A	10/24/2014 05:04	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	142940639002A	10/24/2014 05:04	Choon Y Tian	1
06027	Beryllium	SW-846 6020A	1	142940639002A	10/24/2014 05:04	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	142940639002A	10/24/2014 05:04	Choon Y Tian	1
06035	Lead	SW-846 6020A	1	142940639002A	10/24/2014 05:04	Choon Y Tian	1
06045	Thallium	SW-846 6020A	1	142940639002A	10/24/2014 05:04	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	142945713002	10/22/2014 12:04	Damary Valentin	1
10636	WW/TL SW846 (IV) ICP Dig (tot)	SW-846 3010A	1	142940636002	10/21/2014 23:00	Annamaria Kuhns	1
10639	ICP/MS SW846 (IV) Water Digest	SW-846 3010A modified	1	142940639002	10/21/2014 23:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	142945713002	10/22/2014 00:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-RB(101614) Filtered Grab Water
Fort Meade, MD

LL Sample # WW 7642535
LL Group # 1512019
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 18:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/30/2014 11:00

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F18RB SDG#: FTM18-11RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**SW-846 6010C**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	N.D.	0.0674	0.400	1
07046	Barium	7440-39-3	0.0011 J	0.00033	0.0100	1
01750	Calcium	7440-70-2	0.148 J	0.0334	0.400	1
07051	Chromium	7440-47-3	N.D.	0.0013	0.0300	1
07052	Cobalt	7440-48-4	N.D.	0.0010	0.0100	1
07053	Copper	7440-50-8	N.D.	0.0028	0.0200	1
01754	Iron	7439-89-6	N.D.	0.0334	0.400	1
01757	Magnesium	7439-95-4	0.0448 J	0.0167	0.200	1
07058	Manganese	7439-96-5	N.D.	0.00083	0.0100	1
07061	Nickel	7440-02-0	N.D.	0.0016	0.0200	1
01762	Potassium	7440-09-7	N.D.	0.133	1.00	1
07036	Selenium	7782-49-2	N.D.	0.0048	0.0400	1
07066	Silver	7440-22-4	N.D.	0.0018	0.0100	1
01767	Sodium	7440-23-5	0.344 J	0.167	2.00	1
07071	Vanadium	7440-62-2	N.D.	0.0019	0.0100	1
07072	Zinc	7440-66-6	0.0038 J	0.0020	0.0400	1
	SW-846 6020A		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	N.D.	0.00033	0.0020	1
06025	Arsenic	7440-38-2	N.D.	0.00082	0.0040	1
06027	Beryllium	7440-41-7	N.D.	0.000045	0.0010	1
06028	Cadmium	7440-43-9	N.D.	0.00017	0.0010	1
06035	Lead	7439-92-1	N.D.	0.000082	0.0020	1
06045	Thallium	7440-28-0	N.D.	0.00015	0.0010	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was field filtered for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01743	Aluminum	SW-846 6010C	1	142940636002	10/24/2014 04:20	Tara L Snyder	1
07046	Barium	SW-846 6010C	1	142940636002	10/24/2014 04:20	Tara L Snyder	1
01750	Calcium	SW-846 6010C	1	142940636002	10/24/2014 04:20	Tara L Snyder	1
07051	Chromium	SW-846 6010C	1	142940636002	10/24/2014 04:20	Tara L Snyder	1
07052	Cobalt	SW-846 6010C	1	142940636002	10/24/2014 04:20	Tara L Snyder	1
07053	Copper	SW-846 6010C	1	142940636002	10/24/2014 04:20	Tara L Snyder	1
01754	Iron	SW-846 6010C	1	142940636002	10/24/2014 04:20	Tara L Snyder	1
01757	Magnesium	SW-846 6010C	1	142940636002	10/24/2014 04:20	Tara L Snyder	1
07058	Manganese	SW-846 6010C	1	142940636002	10/24/2014 04:20	Tara L Snyder	1
07061	Nickel	SW-846 6010C	1	142940636002	10/24/2014 04:20	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: FGGM13-RB(101614) Filtered Grab Water
Fort Meade, MD

LL Sample # WW 7642535
LL Group # 1512019
Account # 13129

Project Name: Fort Meade

Collected: 10/16/2014 18:15 by SM

Submitted: 10/17/2014 19:14
Reported: 10/30/2014 11:00

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

F18RB SDG#: FTM18-11RB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01762	Potassium	SW-846 6010C	1	142940636002	10/24/2014 04:20	Tara L Snyder	1
07036	Selenium	SW-846 6010C	1	142940636002	10/24/2014 04:20	Tara L Snyder	1
07066	Silver	SW-846 6010C	1	142940636002	10/24/2014 04:20	Tara L Snyder	1
01767	Sodium	SW-846 6010C	1	142940636002	10/24/2014 04:20	Tara L Snyder	1
07071	Vanadium	SW-846 6010C	1	142940636002	10/24/2014 04:20	Tara L Snyder	1
07072	Zinc	SW-846 6010C	1	142940636002	10/24/2014 04:20	Tara L Snyder	1
06024	Antimony	SW-846 6020A	1	142940639002A	10/24/2014 05:06	Choon Y Tian	1
06025	Arsenic	SW-846 6020A	1	142940639002A	10/24/2014 05:06	Choon Y Tian	1
06027	Beryllium	SW-846 6020A	1	142940639002A	10/24/2014 05:06	Choon Y Tian	1
06028	Cadmium	SW-846 6020A	1	142940639002A	10/24/2014 05:06	Choon Y Tian	1
06035	Lead	SW-846 6020A	1	142940639002A	10/24/2014 05:06	Choon Y Tian	1
06045	Thallium	SW-846 6020A	1	142940639002A	10/24/2014 05:06	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	142945713002	10/22/2014 12:06	Damary Valentin	1
10636	WW/TL SW846 (IV) ICP Dig (tot)	SW-846 3010A	1	142940636002	10/21/2014 23:00	Annamaria Kuhns	1
10639	ICP/MS SW846 (IV) Water Digest	SW-846 3010A modified	1	142940639002	10/21/2014 23:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	142945713002	10/22/2014 00:30	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: ARCADIS Group Number: 1512019
Reported: 10/30/14 at 11:00 AM

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

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 142940636002	Sample number(s): 7642522-7642535								
Aluminum	N.D.	0.0674	0.400	mg/l	105		86-115		
Barium	N.D.	0.00033	0.0100	mg/l	100		88-113		
Calcium	0.0482 J	0.0334	0.400	mg/l	104		87-113		
Chromium	N.D.	0.0013	0.0300	mg/l	99		90-113		
Cobalt	N.D.	0.0010	0.0100	mg/l	102		89-114		
Copper	N.D.	0.0028	0.0200	mg/l	102		86-114		
Iron	N.D.	0.0334	0.400	mg/l	101		87-115		
Magnesium	0.0211 J	0.0167	0.200	mg/l	102		85-113		
Manganese	N.D.	0.00083	0.0100	mg/l	99		90-114		
Nickel	N.D.	0.0016	0.0200	mg/l	103		88-113		
Potassium	N.D.	0.133	1.00	mg/l	102		86-114		
Selenium	N.D.	0.0048	0.0400	mg/l	104		83-114		
Silver	N.D.	0.0018	0.0100	mg/l	95		84-115		
Sodium	N.D.	0.167	2.00	mg/l	101		87-115		
Vanadium	N.D.	0.0019	0.0100	mg/l	100		90-111		
Zinc	0.0035 J	0.0020	0.0400	mg/l	102		87-115		
Batch number: 142940639002A	Sample number(s): 7642522-7642535								
Antimony	N.D.	0.00033	0.0020	mg/l	99		85-117		
Arsenic	N.D.	0.00082	0.0040	mg/l	105		84-116		
Beryllium	N.D.	0.00004 5	0.0010	mg/l	103		83-121		
Cadmium	N.D.	0.00017	0.0010	mg/l	101		87-115		
Lead	N.D.	0.00008 2	0.0020	mg/l	103		88-115		
Thallium	N.D.	0.00015	0.0010	mg/l	98		82-116		
Batch number: 142945713002	Sample number(s): 7642522-7642535								
Mercury	N.D.	0.00006 0	0.00020	mg/l	85		82-119		

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 142940636002	Sample number(s): 7642522-7642535 UNSPK: 7642524 BKG: 7642524								
Aluminum	106	106	86-115	0	20	N.D.	N.D.	0 (1)	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ARCADIS Group Number: 1512019
Reported: 10/30/14 at 11:00 AM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Barium	100	99	88-113	0	20	0.0610	0.0599	2	20
Calcium	99 (2)	92 (2)	87-113	1	20	22.0	21.7	1	20
Chromium	100	100	90-113	0	20	N.D.	N.D.	0 (1)	20
Cobalt	102	102	89-114	0	20	N.D.	N.D.	0 (1)	20
Copper	103	103	86-114	0	20	N.D.	N.D.	0 (1)	20
Iron	103	102	87-115	0	20	N.D.	N.D.	0 (1)	20
Magnesium	101	99	85-113	1	20	2.34	2.30	2	20
Manganese	99	99	90-114	0	20	0.0022 J	0.0022 J	1 (1)	20
Nickel	102	102	88-113	0	20	N.D.	N.D.	0 (1)	20
Potassium	104	103	86-114	0	20	2.65	2.68	1 (1)	20
Selenium	102	103	83-114	2	20	N.D.	N.D.	0 (1)	20
Silver	97	95	84-115	2	20	N.D.	N.D.	0 (1)	20
Sodium	149 (2)	63 (2)	87-115	7	20	112	110	2	20
Vanadium	102	102	90-111	0	20	N.D.	N.D.	0 (1)	20
Zinc	104	103	87-115	1	20	0.0040 J	0.0046 J	14 (1)	20
Batch number: 142940639002A	Sample number(s): 7642522-7642535 UNSPK: 7642524 BKG: 7642524								
Antimony	111	106	85-117	4	20	0.00078 J	0.00068 J	14 (1)	20
Arsenic	119*	115	84-116	4	20	N.D.	N.D.	0 (1)	20
Beryllium	101	104	83-121	3	20	N.D.	N.D.	0 (1)	20
Cadmium	105	100	87-115	4	20	N.D.	N.D.	0 (1)	20
Lead	104	103	88-115	0	20	0.00012 J	N.D.	200* (1)	20
Thallium	98	109	82-116	11	20	N.D.	N.D.	0 (1)	20
Batch number: 142945713002	Sample number(s): 7642522-7642535 UNSPK: 7642524 BKG: 7642524								
Mercury	92	97	82-119	5	20	N.D.	N.D.	0 (1)	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

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Acct. # 13129 For Eurofins Lancaster Laboratories Environmental use only Group # 1512019 Sample # 7642522-35

Instructions on reverse side correspond with circled numbers.

Page 1 of 2

358080

(1) Client Information

Client: ARCADIS

Acct. #:

Project Name/#: Ft Meade Pesticide Shop/GROUNDWATERPEST

PWSID #:

Project Manager: Tim Llewellyn

P.O. #:

Sampler: Sarah Matteson

Quote #:

Name of state where samples were collected: Maryland

(4) Matrix: Sediment ☐ Soil ☐ Potable ☐ Ground ☒ Water ☐ NPDES ☐ Surface ☐ Other: ____

(5) Analysis Requested

Preservation Codes: H | N | N | | H | O

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other H_3PO_4

(2) Sample Identification	Collected Date	Collected Time	(3) Grab	Composite	Total # of Containers	VOCs 8260B	Total TAL Metals	Diss TAL Metals	OC Pesticides 8081A	Methane, Ethane, Ethene	TOC	Diss Organic Carbon	(6) Remarks
FGGM13-MW1R(101714)	10/17/14	1315	X		7	X	X	X	X				
FGGM13-MW2R(101714)	10/17/14	0950	X		15	X	X	X	X	X	X	X	
FGGM13-MW3R(101714)	10/17/14	1015	X		21	X	X	X	X				MS/MSD } KAK1885
FGGM13-MW4R(101614)	10/16/14	1155	X		7	X	X	X	X				~~MS/MSD~~ } 10/20/14
FGGM13-MW5(101614)	10/16/14	1700	X		7	X	X	X	X				
FGGM13-MW6(101614)	10/16/14	1335	X		7	X	X	X	X				
FGGM13-MW7(101614)	10/16/14	1310	X		7	X	X	X	X				
FGGM13-MW8(101614)	10/16/14	1510	X		7	X	X	X	X				
FGGM13-MW9(101614)	10/16/14	1535	X		7	X	X	X	X				
FGGM13-DUP01(101614)	10/16/14	1200	X		7	X	X	X	X				

(7) Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: ____

E-mail address: keith.shepherd@arcadis-us.com

(8) Data Package Options (circle if required)

Type I (Validation/non-CLP) } Type VI (Raw Data Only) KAK1885 per Keith Shepherd

~~Type III (Reduced non-CLP)~~ } TX TRRP-13 10/20/14

Type IV (CLP SOW) MA MCP CT RCP

Relinquished by	Date	Time	Received by	Date	Time
[signature]	10/17/14	1654	[signature]	10-17-14	1654
[signature]	10/17/14	1914			
			[signature]	10/17/14	1914

(9)

EDD Required? Yes No

If yes, format: EQUIS 5

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS ____ FedEx ____ Other ____

Temperature upon receipt 4.3 °C 10/17/14 5.3

Environmental Analysis Request/Chain of Custody

eurofins

Lancaster Laboratories Environmental

Acct. # 13129 For Eurofins Lancaster Laboratories Environmental use only Group # 1512019 Sample # 7642522-35

Instructions on reverse side correspond with circled numbers.

Page 2 of 2

358082

1 Client Information

Client: ARCADIS

Acct. #:

Project Name/#: Ft Meade Pesticide Shop/GP09MEAD.PEST

PWSID #:

Project Manager: Tim Llewellyn

P.O. #:

Sampler: Sarah Matheson

Quote #:

Name of state where samples were collected: Maryland

2 Sample Identification / **3 Collected** / **4 Matrix** / **5 Analysis Requested**

Sample Identification	Collected Date	Collected Time	3 Grab	3 Composite	4 Soil	4 Sediment	4 Potable Water	4 Ground Water	4 NPDES	4 Surface	4 Other:	Total # of Containers	VOCs 8260B (H)	Total TAL Metals (N)	Diss TAL Metals (N)	OC Pesticides 8081A								
FG-MW3-BB(101614)	10/16/14	1815	X				X					7	X	X	X	X								
FG-MW3-TB(101714)	10/17/14	—	—				—					2	X											

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

6 Remarks

For Lab Use Only
FSC:
SCR#:

7 Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed:

E-mail address: Keith.Shepherd@arcadis-us.com

8 Data Package Options (circle if required)

Type I (Validation/non-CLP)
~~Type III (Reduced non-CLP)~~
Type VI (Raw Data Only)
KAK/885 per Keith Shepherd
TX TRRP-13 10/20/14
Type IV (CLP SOW) MA MCP CT RCP

9

Relinquished by	Date	Time	Received by	Date	Time
[signature]	10/17/14	1654	[signature]	10-17-14	1654
[signature]	10-17-14	19:14			
			[signature]	10/17/14	19:14

EDD Required? Yes No
If yes, format: EQUIS

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS FedEx Other

Temperature upon receipt 4.3-5.8 °C 5.3 10/17/14

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Sample Administration Receipt Documentation Log

Doc Log ID: 35260

Group Number(s): 1512019

Client: Arcadis

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	10/17/2014 19:14
Number of Packages:	3	Number of Projects:	1
State/Province of Origin:	MD		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	2
Samples Intact:	Yes	Trip Blank Type:	HCl
Missing Samples:	No	Air Quality Samples Present:	No
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Patrick Engle (3472) at 19:32 on 10/17/2014

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT131	5.3	DT	Wet	Y	Bagged	N
2	DT131	4.3	DT	Wet	Y	Bagged	N
3	DT131	4.8	DT	Wet	Y	Bagged	N

General Comments: MS/MSD sent for sample FGGM13-MW3R(101714).

2425 New Holland Pike
Lancaster, PA 17605-2425

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F | 717-656-2681
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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

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

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

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

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

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

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

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

Attachment 3

Data Validation Reports
(Provided on CD)

LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

ARCADIS U.S., Inc.
630 Plaza Drive, Suite 100
Highlands Ranch, CO 80129
ATTN: Mr. Keith Shepherd

August 6, 2014

SUBJECT: Fort Meade, Data Validation

Dear Mr. Shepherd,

Enclosed is the final validation report for the fractions listed below. This SDG was received on July 29, 2014. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #32284:

SDG #	**Fraction:**
1485223	Volatiles, Chlorinated Pesticides, Metals, Methane, Ethane, & Ethene, Wet Chemistry

The data validation was performed under EPA Level II guidelines. The analyses were validated using the following documents, as applicable to each method:

- Fort Meade Site-wide Quality Assurance Project Plan, Rev. 0.0, April 2010
- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, June 2008
- USEPA Contract Laboratory National Functional Guidelines for Inorganic Superfund Data Review, January 2010
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; Update IV, February 2007

Please feel free to contact us if you have any questions.

Sincerely,

Pei Geng

Pei Geng
Project Manager/Senior Chemist

81 pages-SF

Attachment 1

Level II EDD

LDC #32284 (Arcadis-Millersville, MD / Fort Meade)

LDC	SDG#	DATE REC'D	(2) DATE DUE	VOA (8260B)		Pest (8081B)		Metals (6010C/ 7000)		D. Met. (6010C/ 7000)		Methane Ethane Ethene		DOC TOC (5310C)																							
Matrix:	Water/Soil			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	1485223	07/29/14	08/12/14	13	0	12	0	12	0	12	0	1	0	1	0																						
Total	A/PG			13	0	12	0	12	0	12	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51

Shaded cells indicate Tier 3 validation (all other cells are Tier 2 validation). These sample counts do not include MS/MSD, and DUPs

32284ST.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Fort Meade
Collection Date:	June 25 through June 27, 2014
LDC Report Date:	August 4, 2014
Matrix:	Water
Parameters:	Volatiles
Validation Level:	EPA Level II
Laboratory:	Eurofins
Sample Delivery Group (SDG):	1485223

Sample Identification

FGGM13-MW1R(062614)
FGGM13-MW2R(062514)
FGGM13-MW3R(062514)
FGGM13-MW4R(062614)
FGGM13-MW5(062614)
FGGM13-MW6(062614)
FGGM13-MW7(062614)
FGGM13-MW8(062714)
FGGM13-MW9(062614)
FGGM13-DUP01(062614)
FGGM13-RB02(062514)
FGGM13-RB01(062614)
FGGM13-TB02(062514)

Introduction

This data review covers 10 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

This review follows the Fort Meade Site-wide Quality Assurance Project Plan (Rev. 0.0, April 2010) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance check data were not reviewed for Level II.

III. Initial Calibration

Initial calibration data were not reviewed for Level II.

IV. Continuing Calibration

Continuing calibration data were not reviewed for Level II.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks.

Sample FGGM13-TB02(062514) was identified as a trip blank. No volatile contaminants were found.

Samples FGGM13-RB02(062514) and FGGM13-RB01(062614) were identified as rinsate blanks. No volatile contaminants were found.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

Internal standards data were not reviewed for Level II.

XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

XII. Compound Quantitation

Raw data were not reviewed for this SDG.

XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

XIV. System Performance

Raw data were not reviewed for this SDG.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples FGGM13-MW9(062614) and FGGM13-DUP01(062614) were identified as field duplicates. No volatiles were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
	FGGM13-MW9(062614)	FGGM13-DUP01(062614)			
Chloroform	0.5	0.5	0 (≤50)	-	-
Methyl-tert-butyl ether	0.5	0.4	22 (≤50)	-	-
Tetrachloroethene	14	14	0 (≤50)	-	-
Trichloroethene	0.4	0.4	0 (≤50)	-	-

Fort Meade
Volatiles - Data Qualification Summary - SDG 1485223

No Sample Data Qualified in this SDG

Fort Meade
Volatiles - Laboratory Blank Data Qualification Summary - SDG 1485223

No Sample Data Qualified in this SDG

Fort Meade
Volatiles - Field Blank Data Qualification Summary - SDG 1485223

No Sample Data Qualified in this SDG

LDC #: 32284A1
SDG #: 1485223
Laboratory: eurofins

VALIDATION COMPLETENESS WORKSHEET
Level II

Date: 7/21/14
Page: 1 of 1
Reviewer: JVG
2nd Reviewer: M

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 6/25 - 27/14
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	CS
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/RL/LOQ/LODs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	SW	D = 9, 10
XVII.	Field blanks	ND	RB = 11, 12 TB = 13

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: Water

	1	FGGM13-MW1R(062614) ~~Grab Groundwater~~	11	FGGM13-RB02(062514) ~~Grab Groundwater~~	21	C141831AA MB		
IX/Iox	2	FGGM13-MW2R(062514) ~~Grab Groundwater~~	12	FGGMB-RB01 (062614)	22	I141881AA	32	
IX/Iox	3	FGGM13-MW3R(062514) ~~Grab Groundwater~~	13	FGGM13-TB02 (062514)	23		33	
	4	FGGM13-MW4R(062614) ~~Grab Groundwater~~	14		24		34	
	5	FGGM13-MW5(062614) ~~Grab Groundwater~~	15		25		35	
	6	FGGM13-MW6(062614) ~~Grab Groundwater~~	16		26		36	
	7	FGGM13-MW7(062614) ~~Grab Groundwater~~	17		27		37	
	8	FGGM13-MW8(062714) ~~Grab Groundwater~~	18		28		38	
	9	FGGM13-MW9(062614) ~~Grab Groundwater~~	19		29		39	
	10	FGGM13-DUP01(062614) ~~Grab Groundwater~~	20		30		40	

LDC #: 32284 A1

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: JVG
2nd reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y N N/A Were field duplicate pairs identified in this SDG?
Y N N/A Were target compounds detected in the field duplicate pairs?

Compound	Concentration (ug/L)		RPD (≤ 50 %)	Qualifications (Parent only)
	9	10		
K	0.5	0.5	0	
LL	0.5	0.4	22	
AA	14	14	0	
S	0.4	0.4	0	

Compound	Concentration ( )		RPD (≤ %	Qualifications (Parent only)

Compound	Concentration ( )		RPD (≤ %	Qualifications (Parent only)

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Fort Meade
Collection Date:	June 25 through June 27, 2014
LDC Report Date:	August 4, 2014
Matrix:	Water
Parameters:	Chlorinated Pesticides
Validation Level:	EPA Level II
Laboratory:	Eurofins
Sample Delivery Group (SDG):	1485223

Sample Identification

FGGM13-MW1R(062614)
FGGM13-MW2R(062514)
FGGM13-MW3R(062514)
FGGM13-MW4R(062614)
FGGM13-MW5(062614)
FGGM13-MW6(062614)
FGGM13-MW7(062614)
FGGM13-MW8(062714)
FGGM13-MW9(062614)
FGGM13-DUP01(062614)
FGGM13-RB02(062514)
FGGM13-RB01(062614)

Introduction

This data review covers 12 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8081A for Chlorinated Pesticides.

This review follows the Fort Meade Site-wide Quality Assurance Project Plan (Rev. 0.0, April 2010) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance data were not reviewed for Level II.

III. Initial Calibration

Initial calibration data were not reviewed for Level II.

IV. Continuing Calibration

Continuing calibration data were not reviewed for Level II.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No chlorinated pesticide contaminants were found in the method blanks.

Samples FGGM13-RB02(062514) and FGGM13-RB01(062614) were identified as rinsate blanks. No chlorinated pesticide contaminants were found.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Column	Surrogate	%R (Limits)	Compound	Flag	A or P
FGGM13-MW2R(062514)	Not specified	Decachlorobiphenyl	17 (32-149)	All TCL compounds	J (all detects) UJ (all non-detects)	P
FGGM13-MW4R(062614)	Not specified	Decachlorobiphenyl	30 (32-149)	All TCL compounds	J (all detects) UJ (all non-detects)	P

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag	A or P
141840013A LCS/D (FGGM13-RB01(062614) 141840013AMB)	Endrin ketone	73 (75-125)	-	-	J (all detects) UJ (all non-detects)	P

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

Raw data were not reviewed for this SDG.

XIII. Compound Quantitation

Raw data were not reviewed for this SDG.

XIV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XV. Field Duplicates

Samples FGGM13-MW9(062614) and FGGM13-DUP01(062614) were identified as field duplicates with the following exceptions:

Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
	FGGM13-MW9(062614)	FGGM13-DUP01(062614)			
Aldrin	0.0043	0.0044	2 (≤50)	-	-

Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
	FGGM13-MW9(062614)	FGGM13-DUP01(062614)			
alpha-BHC	0.012	0.013	8 (≤50)	-	-
gamma-BHC	0.11	0.10	10 (≤50)	-	-
alpha-Chlordane	0.34	0.36	6 (≤50)	-	-
alpha-Chlordane	0.27	0.29	7 (≤50)	-	-
4,4'-DDT	0.011	0.012	9 (≤50)	-	-
delta-BHC	0.0066	0.0065	2 (≤50)	-	-
Dieldrin	0.015	0.014	7 (≤50)	-	-
Endosulfan I	0.030	0.031	3 (≤50)	-	-
Endosulfan sulfate	0.0068	0.0067	1 (≤50)	-	-
Endrin ketone	0.013	0.012	8 (≤50)	-	-
Heptachlor epoxide	0.046	0.049	6 (≤50)	-	-

Fort Meade
Chlorinated Pesticides - Data Qualification Summary - SDG 1485223

SDG	Sample	Compound	Flag	A or P	Reason
1485223	FGGM13-MW2R(062514) FGGM13-MW4R(062614)	All TCL compounds	J (all detects) UJ (all nondetects)	P	Surrogate spikes (%R)
1485223	FGGM13-RB01(062614)	Endrin ketone	J (all detects) UJ (all non-detects)	P	Laboratory control samples (%R)

Fort Meade
Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG 1485223

No Sample Data Qualified in this SDG

Fort Meade
Chlorinated Pesticides - Field Blank Data Qualification Summary - SDG 1485223

No Sample Data Qualified in this SDG

LDC #: 32284A3a
SDG #: 1485223
Laboratory: eurofins

VALIDATION COMPLETENESS WORKSHEET
Level II

Date: 7/31/14
Page: 1 of 1
Reviewer: SVG
2nd Reviewer: A

METHOD: GC Chlorinated Pesticides/PCBs (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 6/25 - 27/14
II.	GC Instrument Performance Check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	SW	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	SW	ICS (D)
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	N	
XIII.	Compound quantitation/LR/LOQ/LODs	N	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	SW	D = 9, 10
XVI.	Field blanks	ND	RB = 11, 12

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: Water

+ 1	FGGM13-MW1R(062614) ~~Grab Groundwater~~	11	FGGM13-RB02(062514) ~~Grab Groundwater~~	21	1418 10012A MB	31	
+ 2	FGGM13-MW2R(062514) ~~Grab Groundwater~~	12	FGGM13-RB01 (062614)	22	1418 40013 A	32	
+ 3	FGGM13-MW3R(062514) ~~Grab Groundwater~~	13		23		33	
+ 4	FGGM13-MW4R(062614) ~~Grab Groundwater~~	14		24		34	
+ 5	FGGM13-MW5(062614) ~~Grab Groundwater~~	15		25		35	
+ 6	FGGM13-MW6(062614) ~~Grab Groundwater~~	16		26		36	
+ 7	FGGM13-MW7(062614) ~~Grab Groundwater~~	17		27		37	
+ 8	FGGM13-MW8(062714) ~~Grab Groundwater~~	18		28		38	
9	FGGM13-MW9(062614) ~~Grab Groundwater~~ D	19		29		39	
10	FGGM13-DUP01(062614) ~~Grab Groundwater~~ D	20		30		40	

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. ~~4,4'~~ p,p'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH. Chlordane (Technical)
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II. Aroclor 1262
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ. Aroclor 1268
E. Heptachlor	M. ~~4,4'~~ p,p'-DDD	U. Toxaphene	CC. 2,4'-DDD	KK. Oxychlordane
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. 2,4'-DDE	LL. trans-Nonachlor
G. Heptachlor epoxide	O. ~~4,4'~~ p,p'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM. cis-Nonachlor
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes:

LDC #: 32284* 3G

VALIDATION FINDINGS WORKSHEET
Surrogate Spikes

Page: 1 of 1
Reviewer: JVG
2nd Reviewer:

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Please see qualification below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were surrogates spiked into all samples, standards and blanks?

Y N N/A Did all surrogate percent recoveries (%R) meet the QC limits?

#	Sample ID	Column	Surrogate Compound	%R (Limits)	Qualifications
	2	NS	B	17 (32-149)	J / UJ / P
				( )	
	4			30 ( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	

Letter Designation	Surrogate Compound	Recovery QC Limits (Soil)	Recovery QC Limits (Water)	Comments
A	Tetrachloro-m-xylene			
B	Decachlorobiphenyl			

LDC #: 32284A3a

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a laboratory control samples (LCS) and laboratory control sample duplicate (LCSD) analyzed for each matrix in this SDG?
Y N N/A Were the LCS percent recoveries (%R) and relative percent differences (RPD) within the QC limits?

Level IV/D Only

Y N N/A Was a LCS analyzed every 20 samples for each matrix or whenever a sample extraction was performed?

#	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	141840013A LCSD	Q	73 (75-125)	( )	( )	12, 141840013A MB	J/UJ/P
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
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			( )	( )	( )		
			( )	( )	( )		

LDC#:32284A3a

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

Compound	Concentration (ug/L)		RPD (≤50%)	Qualifications (Parent only)
	9	10		
F	0.0043	0.0044	2	
A	0.012	0.013	8	
D	0.11	0.10	10	
S	0.34	0.36	6	
T	0.27	0.29	7	
O	0.011	0.012	9	
C	0.0066	0.0065	2	
I	0.015	0.014	7	
H	0.030	0.031	3	
N	0.0068	0.0067	1	
Q	0.013	0.012	8	
G	0.046	0.049	6	

V:\FIELD DUPLICATES\32284A3a.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Fort Meade

Collection Date: June 25 through June 27, 2014

LDC Report Date: August 4, 2014

Matrix: Water

Parameters: Metals

Validation Level: EPA Level II

Laboratory: Eurofins

Sample Delivery Group (SDG): 1485223

Sample Identification

FGGM13-MW1R(062614)
FGGM13-MW2R(062514)
FGGM13-MW3R(062514)
FGGM13-MW4R(062614)
FGGM13-MW5(062614)
FGGM13-MW6(062614)
FGGM13-MW7(062614)
FGGM13-MW8(062714)
FGGM13-MW9(062614)
FGGM13-DUP01(062614)
FGGM13-RB02(062514)
FGGM13-MW1R(062614)F
FGGM13-MW2R(062514)F
FGGM13-MW3R(062514)F
FGGM13-MW4R(062614)F
FGGM13-MW5(062614)F
FGGM13-MW6(062614)F
FGGM13-MW7(062614)F
FGGM13-MW8(062714)F
FGGM13-MW9(062614)F
FGGM13-DUP01(062614)F
FGGM13-RB02(062514)F
FGGM13-RB01(062614)F
FGGM13-MW4R(062614)MS
FGGM13-MW4R(062614)MS
FGGM13-MW4R(062614)MSD
FGGM13-MW9(062614)MS
FGGM13-MW9(062614)MSD
FGGM13-MW4R(062614)DUP
FGGM13-MW9(062614)MSD
FGGM13-MW2R(062514)MS
FGGM13-MW2R(062514)MSD
FGGM13-MW2R(062514)DUP
FGGM13-MW1R(062614)FMS
FGGM13-MW1R(062614)FMSD
FGGM13-MW1R(062614)FDUP
FGGM13-MW9(062614)FMS
FGGM13-MW9(062614)FMSD
FGGM13-MW9(062614)FDUP

Samples appended with "F" were analyzed for dissolved metals

Introduction

This data review covers 39 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010C and 7470A for Metals. The metals analyzed were Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, and Zinc.

This review follows the Fort Meade Site-wide Quality Assurance Project Plan (Rev. 0.0, April 2010)and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol)or A (advisory)to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. ICPMS Tune

ICP-MS tune data were not reviewed for Level II.

III. Calibration

Calibration data were not reviewed for Level II.

IV. Blanks

Method blank analyses were performed at the required frequency. No volatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Thallium	0.0055 mg/L	FGGM13-MW1R(062614) FGGM13-MW2R(062514) FGGM13-MW3R(062514) FGGM13-MW4R(062614) FGGM13-MW5(062614) FGGM13-MW6(062614) FGGM13-MW7(062614) FGGM13-MW8(062714) FGGM13-MW1R(062614)F FGGM13-MW2R(062514)F FGGM13-MW3R(062514)F FGGM13-MW4R(062614)F FGGM13-MW5(062614)F FGGM13-MW6(062614)F FGGM13-MW7(062614)F FGGM13-MW8(062714)F
PB (prep blank)	Aluminum Chromium Manganese	0.0696 mg/L 0.0091 mg/L 0.0011 mg/L	FGGM13-MW9(062614) FGGM13-DUP01(062614) FGGM13-RB02(062514) FGGM13-MW9(062614)F FGGM13-DUP01(062614)F FGGM13-RB02(062514)F FGGM13-RB01(062614)F FGGM13-RB01(062614)

Data qualification by the preparation blanks (PBs)was based on the maximum contaminant concentration in the PBs in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants)than the concentrations found in the associated method blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
FGGM13-MW1R(062614)	Thallium	0.0128 mg/L	0.0128U mg/L
FGGM13-MW5(062614)	Thallium	0.0056 mg/L	0.0056U mg/L
FGGM13-MW7(062614)	Thallium	0.0052 mg/L	0.0052U mg/L
FGGM13-MW1R(062614)F	Thallium	0.0158 mg/L	0.0158U mg/L
FGGM13-MW2R(062514)F	Thallium	0.0094 mg/L	0.0094U mg/L
FGGM13-MW3R(062514)F	Thallium	0.0065 mg/L	0.0065U mg/L
FGGM13-MW4R(062614)F	Thallium	0.0062 mg/L	0.0062U mg/L
FGGM13-MW7(062614)F	Thallium	0.0083 mg/L	0.0083U mg/L
FGGM13-MW8(062714)F	Thallium	0.0066 mg/L	0.0066U mg/L
FGGM13-MW9(062614)	Chromium	0.0031 mg/L	0.0031U mg/L
FGGM13-DUP01(062614)	Chromium	0.0030 mg/L	0.0030U mg/L
FGGM13-RB01(062614)F	Manganese	0.0010 mg/L	0.0010U mg/L
FGGM13-RB01(062614)	Manganese	0.0017 mg/L	0.0017U mg/L

Samples FGGM13-RB02(062514), FGGM13-RB02(062514)F, FGGM13-RB01(062614)F, and FGGM13-RB01(062614) were identified as rinsate blanks. No metal contaminants were found with the following exceptions:

Blank ID	Sampling Date	Analyte	Concentration	Associated Samples
FGGM13-RB02(062514)F	6/25/14	Barium Calcium	0.00045 mg/L 0.0371 mg/L	FGGM13-MW2R(062514)F FGGM13-MW3R(062514)F
FGGM13-RB01(062614)	6/26/14	Barium Calcium Manganese	0.0014 mg/L 0.146 mg/L 0.0017 mg/L	FGGM13-MW1R(062614) FGGM13-MW4R(062614) FGGM13-MW5(062614) FGGM13-MW6(062614) FGGM13-MW7(062614) FGGM13-MW9(062614) FGGM13-DUP01(062614)

Blank ID	Sampling Date	Analyte	Concentration	Associated Samples
FGGM13-RB01(062614)F	6/26/14	Barium Calcium Manganese	0.0015 mg/L 0.138 mg/L 0.0010 mg/L	FGGM13-MW1R(062614)F FGGM13-MW4R(062614)F FGGM13-MW5(062614)F FGGM13-MW6(062614)F FGGM13-MW7(062614)F FGGM13-MW9(062614)F FGGM13-DUP01(062614)F

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants)than the concentrations found in the associated field blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
FGGM13-MW4R(062614)	Manganese	0.0066 mg/L	0.0066U mg/L
FGGM13-MW4R(062614)F	Manganese	0.0043 mg/L	0.0043 mg/L

V. ICP Interference Check Sample (ICS)Analysis

ICP Interference check sample (ICS)analysis data were not reviewed for Level II.

VI. Matrix Spike Analysis

Matrix spike (MS)and matrix spike duplicate (MSD)samples were reviewed for each matrix as applicable. Percent recoveries (%R)and relative percent differences (RPD)were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
FGGM13-MW4R(062614)MS/MSD (FGGM13-MW1R(062614) FGGM13-MW2R(062514) FGGM13-MW3R(062514) FGGM13-MW4R(062614) FGGM13-MW5(062614) FGGM13-MW6(062614) FGGM13-MW7(062614) FGGM13-MW8(062714) FGGM13-MW1R(062614)F FGGM13-MW2R(062514)F FGGM13-MW3R(062514)F FGGM13-MW4R(062614)F FGGM13-MW5(062614)F FGGM13-MW6(062614)F FGGM13-MW7(062614)F FGGM13-MW8(062714)F)	Aluminum Iron	235 (75-125) -	248 (75-125) 147 (75-125)	- -	J (all detects) J (all detects)	A

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
FGGM13-MW9(062614)MS/MSD (FGGM13-MW9(062614) FGGM13-DUP01(062614) FGGM13-RB02(062514) FGGM13-MW9(062614)F FGGM13-DUP01(062614)F FGGM13-RB02(062514)F FGGM13-RB01(062614)F FGGM13-RB01(062614))	Aluminum	189 (75-125)	198 (75-125)	-	J (all detects)	A
FGGM13-MW2R(062514)MS/MSD (FGGM13-MW2R(062514) FGGM13-MW3R(062514) FGGM13-MW4R(062614) FGGM13-MW5(062614) FGGM13-MW6(062614) FGGM13-MW7(062614) FGGM13-MW8(062714) FGGM13-MW9(062614) FGGM13-DUP01(062614) FGGM13-MW1R(062614)F FGGM13-MW2R(062514)F FGGM13-MW3R(062514)F FGGM13-MW4R(062614)F FGGM13-MW5(062614)F FGGM13-MW6(062614)F FGGM13-MW7(062614)F FGGM13-MW8(062714)F FGGM13-MW9(062614)F FGGM13-DUP01(062614)F)	Mercury	128 (75-125)	-	-	J (all detects)	A

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R)were within QC limits.

IX. Internal Standards

Internal standards data were not reviewed for Level II.

X. ICP Serial Dilution

ICP Serial dilution data were not reviewed for Level II.

XI. Sample Result Verification

Raw data were not reviewed for this SDG.

XII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIII. Field Duplicates

Samples FGGM13-MW9(062614) and FGGM13-DUP01(062614) and samples FGGM13-MW9(062614)F and FGGM13-DUP01(062614)F were identified as field duplicates. No metals were detected in any of the samples with the following exceptions:

Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
	FGGM13-MW9(062614)	FGGM13-DUP01(062614)			
Aluminum	1.23	1.43	15 (≤50)	-	-
Barium	0.111	0.113	2 (≤50)	-	-
Calcium	24.0	24.9	4 (≤50)	-	-
Chromium	0.0031	0.0030	3 (≤50)	-	-
Cobalt	0.0028	0.0032	13 (≤50)	-	-
Iron	0.859	0.834	3 (≤50)	-	-
Magnesium	6.37	6.72	5 (≤50)	-	-
Manganese	0.0261	0.0259	1 (≤50)	-	-
Nickel	0.0029	0.0032	10 (≤50)	-	-
Potassium	3.65	3.78	3 (≤50)	-	-
Sodium	106	105	1 (≤50)	-	-
Thallium	0.0090	0.0073	21 (≤50)	-	-
Vanadium	0.0030	0.0037	21 (≤50)	-	-
Zinc	0.0076	0.0044	53 (≤50)	J (all detects)	A

Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
	FGGM13-MW9(062614)F	FGGM13-DUP01(062614)F			
Barium	0.107	0.109	2 (≤50)	-	-
Calcium	24.4	25.6	5 (≤50)	-	-
Cobalt	0.0030	0.0034	12 (≤50)	-	-
Magnesium	6.58	6.77	3 (≤50)	-	-
Manganese	0.0253	0.0249	2 (≤50)	-	-
Nickel	0.0033	0.0032	3 (≤50)	-	-
Potassium	3.52	3.50	1 (≤50)	-	-
Sodium	103	105	2 (≤50)	-	-
Thallium	0.0051U	0.0091	200 (≤50)	J (all detects) UJ (all non-detects)	A
Zinc	0.0043	0.0038	12 (≤50)	-	-

Fort Meade
Metals - Data Qualification Summary - SDG 1485223

SDG	Sample	Analyte	Flag	A or P	Reason
1485223	FGGM13-MW1R(062614) FGGM13-MW2R(062514) FGGM13-MW3R(062514) FGGM13-MW4R(062614) FGGM13-MW5(062614) FGGM13-MW6(062614) FGGM13-MW7(062614) FGGM13-MW8(062714) FGGM13-MW1R(062614)F FGGM13-MW2R(062514)F FGGM13-MW3R(062514)F FGGM13-MW4R(062614)F FGGM13-MW5(062614)F FGGM13-MW6(062614)F FGGM13-MW7(062614)F FGGM13-MW8(062714)F	Aluminum Iron	J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicate (%R)
1485223	FGGM13-MW9(062614) FGGM13-DUP01(062614) FGGM13-RB02(062514) FGGM13-MW9(062614)F FGGM13-DUP01(062614)F FGGM13-RB02(062514)F FGGM13-RB01(062614)F FGGM13-RB01(062614)	Aluminum	J (all detects)	A	Matrix spike/Matrix spike duplicate (%R)
1485223	FGGM13-MW2R(062514) FGGM13-MW3R(062514) FGGM13-MW4R(062614) FGGM13-MW5(062614) FGGM13-MW6(062614) FGGM13-MW7(062614) FGGM13-MW8(062714) FGGM13-MW9(062614) FGGM13-DUP01(062614) FGGM13-MW1R(062614)F FGGM13-MW2R(062514)F FGGM13-MW3R(062514)F FGGM13-MW4R(062614)F FGGM13-MW5(062614)F FGGM13-MW6(062614)F FGGM13-MW7(062614)F FGGM13-MW8(062714)F FGGM13-MW9(062614)F FGGM13-DUP01(062614)F	Mercury	J (all detects)	A	Matrix spike/Matrix spike duplicate (%R)
1485223	FGGM13-MW9(062614) FGGM13-DUP01(062614) FGGM13-RB02(062514) FGGM13-MW9(062614)F FGGM13-DUP01(062614)F FGGM13-RB02(062514)F FGGM13-RB01(062614)F	Zinc	J (all detects)	A	Field duplicates (RPD)

SDG	Sample	Analyte	Flag	A or P	Reason
1485223	FGGM13-MW9(062614) FGGM13-DUP01(062614) FGGM13-RB02(062514) FGGM13-MW9(062614)F FGGM13-DUP01(062614)F FGGM13-RB02(062514)F FGGM13-RB01(062614)F	Thallium	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD)

Fort Meade
Metals - Laboratory Blank Data Qualification Summary - SDG 1485223

SDG	Sample	Analyte	Modified Final Concentration	A or P
1485223	FGGM13-MW1R(062614)	Thallium	0.0128U mg/L	A
1485223	FGGM13-MW5(062614)	Thallium	0.0056U mg/L	A
1485223	FGGM13-MW7(062614)	Thallium	0.0052U mg/L	A
1485223	FGGM13-MW1R(062614)F	Thallium	0.0158U mg/L	A
1485223	FGGM13-MW2R(062514)F	Thallium	0.0094U mg/L	A
1485223	FGGM13-MW3R(062514)F	Thallium	0.0065U mg/L	A
1485223	FGGM13-MW4R(062614)F	Thallium	0.0062U mg/L	A
1485223	FGGM13-MW7(062614)F	Thallium	0.0083U mg/L	A
1485223	FGGM13-MW8(062714)F	Thallium	0.0066U mg/L	A
1485223	FGGM13-MW9(062614)	Chromium	0.0031U mg/L	A
1485223	FGGM13-DUP01(062614)	Chromium	0.0030U mg/L	A
1485223	FGGM13-RB01(062614)F	Manganese	0.0010U mg/L	A
1485223	FGGM13-RB01(062614)	Manganese	0.0017U mg/L	A

Fort Meade
Metals - Field Blank Data Qualification Summary - SDG 1485223

SDG	Sample	Analyte	Modified Final Concentration	A or P
1485223	FGGM13-MW4R(062614)	Manganese	0.0066U mg/L	A
1485223	FGGM13-MW4R(062614)F	Manganese	0.0043 mg/L	A

LDC #: 32284A4

SDG #: ~~1485223~~ ~~FN~~ 072

Laboratory: eurofins

VALIDATION COMPLETENESS WORKSHEET

Level II

Date: 7/31/14

Page: 1 of 1

Reviewer: JD

2nd Reviewer: [illegible]

METHOD: Metals (EPA SW 846 Method 6010C/~~7000~~ 7470A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 06/25-27/14
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	MS/D = (25,26) (27,28) (31,32) (34,35) (31,38)
VII.	Duplicate Sample Analysis	A	Dup
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	ICP Serial Dilution	N	
XI.	Sample Result Verification	N	
XII.	Overall Assessment of Data	A	
XIII.	Field Duplicates	SW	~~RB = 22,23,24, 11~~ FD = (9,10)(20,21)
XIV.	Field Blanks	SW	RB = 22,23,24, 11*

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; *ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

1	FGGM13-MW1R(062614) Grab Groundwater 1	11	FGGM13-RB02(062514) Grab Groundwater 2	21	FGGM13-DUP01(062614)Filtered Grab Groundwater 2
2	FGGM13-MW2R(062514) Grab Groundwater 1	12	FGGM13-MW1R(062614) Filtered Grab Groundwater 1	22	FGGM13-RB02(062514)Filtered Grab Groundwater 2
3	FGGM13-MW3R(062514) Grab Groundwater 1	13	FGGM13-MW2R(062514) Filtered Grab Groundwater 1	23	FGGM13-RB01(062614) Filtered Grab Groundwater 2
4	FGGM13-MW4R(062614) Grab Groundwater 1	14	FGGM13-MW3R(062514) Filtered Grab Groundwater 1	24	FGGM13-RB01(062614) Grab Groundwater 2
5	FGGM13-MW5(062614) Grab Groundwater 1	15	FGGM13-MW4R(062614) Filtered Grab Groundwater 1	25	#4 MS
6	FGGM13-MW6(062614) Grab Groundwater 1	16	FGGM13-MW5(062614) Filtered Grab Groundwater 1	26	#4 MSD
7	FGGM13-MW7(062614) Grab Groundwater 1	17	FGGM13-MW6(062614) Filtered Grab Groundwater 1	27	#9 MS
8	FGGM13-MW8(062714) Grab Groundwater 1	18	FGGM13-MW7(062614) Filtered Grab Groundwater 1	28	#9 MSD
9	FGGM13-MW9(062614) Grab Groundwater 2	19	FGGM13-MW8(062714) Filtered Grab Groundwater 1	29	#4 Dup
10	FGGM13-DUP01(062614) Grab Groundwater 2	20	FGGM13-MW9(062614) Filtered Grab Groundwater 2	30	#9 Dup

Notes: 31 #2 MS; 32 #2 MSD; 33 #2 Dup; 34 #12 MS; 35 #12 MSD

36 #12 Dup; 37 #20 MS; 38 #20 MSD; 39 #20 Dup

LDC #: 32284A4

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Reviewer: SD
2nd reviewer: [illegible]

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-24	W	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
QC: 25-26,29	W	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
QC: 27-28,30	W	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
QC: 31-33	W	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
QC: 34-36	W	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
QC: 37-39	W	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
Analysis Method		
ICP		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___

Comments: Mercury by CVAA if performed

LDC #: 32284A4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: SB
2nd Reviewer: SB

METHOD: Trace metals (EPA SW 864 Method 6010C/7470A) Soil preparation factor applied: ____

Sample Concentration units, unless otherwise noted: mg/L Associated Samples: 1-8, 12-19

					Sample Identification										
Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (mg/L)	Maximum ICB/CCB[a] (mg/L)	Action Level (mg/L)	1	5	7	12	13	14	15	18	19		
Tl		0.0055		0.0275	0.0128	0.0056	0.0052	0.0158	0.0094	0.0065	0.0062	0.0083	0.0066		

Sample Concentration units, unless otherwise noted: mg/L Associated Samples: 9-11,20-24

					Sample Identification										
Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (mg/L)	Maximum ICB/CCB[a] (mg/L)	Action Level (mg/L)	9	10	23	24							
Al		0.0696		0.348											
Cr		0.0091		0.0455	0.0031	0.0030									
Mn		0.0011		0.0055			0.0010	0.0017							

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 32284A4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: JD
2nd Reviewer: 2

METHOD: Trace Metals (EPA SW 846 Method 6010C/7470A)

Blank units: mg/L **Associated sample units:** mg/L
Sampling date: 6/25/14 Soil factor applied _____
Field blank type: (circle one) Field Blank / Rinsate / Other: RB Associated Samples: 13-14

Analyte	Blank ID	Sample Identification											
	22	Action Limit	No Qual										
Ba	0.00045	0.00225											
Ca	0.0371	0.1855											

Blank units: mg/L **Associated sample units:** mg/L
Sampling date: 6/26/14 Soil factor applied _____
Field blank type: (circle one) Field Blank / Rinsate / Other: RB Associated Samples: 1,4-7,9,10

Analyte	Blank ID	Sample Identification											
	24	Action Limit	4										
Ba	0.0014	0.007											
Ca	0.146	0.73											
Mn	0.0017	0.0085	0.0066										

Blank units: mg/L **Associated sample units:** mg/L
Sampling date: 6/26/14 Soil factor applied _____
Field blank type: (circle one) Field Blank / Rinsate / Other: RB Associated Samples: 12,15-18,20,21

Analyte	Blank ID	Sample Identification											
	23	Action Limit	15										
Ba	0.0015	0.0075											
Ca	0.138	0.69											
Mn	0.0010	0.005	0.0043										

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

LDC #: 32284A4

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Reviewer: JD
2nd Reviewer: a

METHOD: Trace metals (EPA SW 846 Method 6010/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a matrix spike analyzed for each matrix in this SDG?

Y N N/A Were matrix spike percent recoveries (%R) within the control limits of 75-125? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.

Y N N/A Were all duplicate sample relative percent differences (RPD) ≤ 20% for samples?

LEVEL IV ONLY:

Y N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	MS/MSD ID	Matrix	Analyte	MS %Recovery	MSD %Recovery	RPD (Limits)	Associated Samples	Qualifications
1	25/26	W	Al	235	248		1-8,12-19	Jdet/A
			Fe		147			Jdet/A
2	27/28	W	Al	189	198		9-11,20-24	Jdet/A
3	31/32	W	Hg	128			2-10,12-21	Jdet/A

Comments:

LDC#: 32284A4

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: JD
2nd Reviewer: [illegible]

METHOD: Metals (EPA Method 6010C/7470A)

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

Analyte	Concentration (mg/L)		RPD (≤50)	Qualifiers
	9	10		
Aluminum	1.23	1.43	15	
Barium	0.111	0.113	2	
Calcium	24.0	24.9	4	
Chromium	0.0031	0.0030	3	
Cobalt	0.0028	0.0032	13	
Iron	0.859	0.834	3	
Magnesium	6.37	6.72	5	
Manganese	0.0261	0.0259	1	
Nickel	0.0029	0.0032	10	
Potassium	3.65	3.78	3	
Sodium	106	105	1	
Thallium	0.0090	0.0073	21	
Vanadium	0.0030	0.0037	21	
Zinc	0.0076	0.0044	53	Jdet/A

(qualify 9, 10, 11, 20-24

Analyte	Concentration (mg/L)		RPD (≤50)	Qualifiers
	20	21		
Barium	0.107	0.109	2	
Calcium	24.4	25.6	5	
Cobalt	0.0030	0.0034	12	

LDC#: 32284A4

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: SJ
2nd Reviewer: N

METHOD: Metals (EPA Method 6010C/7470A)

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

Analyte	Concentration (mg/L)		RPD (≤50)	Qualifiers
	20	21		
Magnesium	6.58	6.77	3	
Manganese	0.0253	0.0249	2	
Nickel	0.0033	0.0032	3	
Potassium	3.52	3.50	1	
Sodium	103	105	2	
Thallium	0.0051U	0.0091	200	J/UJ/A
Zinc	0.0043	0.0038	12	

(Qualify 9-11, 20-24

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Fort Meade
Collection Date:	June 25, 2014
LDC Report Date:	August 4, 2014
Matrix:	Water
Parameters:	Wet Chemistry
Validation Level:	EPA Level II
Laboratory:	Eurofins
Sample Delivery Group (SDG):	1485223

Sample Identification

FGGM13-MW2R(062514)
FGGM13-MW2R(062514)MS
FGGM13-MW2R(062514)DUP

Introduction

This data review covers 3 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per Standard Method 3510 C-2000 for Dissolved Organic Carbon and Total Organic Carbon.

This review follows the Fort Meade Site-wide Quality Assurance Project Plan (Rev. 0.0, April 2010) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration data were not reviewed for Level II.

III. Calibration Verification

Calibration verification data were not reviewed for Level II.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations found in the preparation blanks.

No field blanks were identified in this SDG.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VI. Duplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Sample Result Verification

Raw data were not reviewed for this SDG.

IX. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

X. Field Duplicates

No field duplicates were identified in this SDG.

Fort Meade
Wet Chemistry - Data Qualification Summary - SDG 1485223

No Sample Data Qualified in this SDG

Fort Meade
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 1485223

No Sample Data Qualified in this SDG

Fort Meade
Wet Chemistry - Field Blank Data Qualification Summary - SDG 1485223

No Sample Data Qualified in this SDG

LDC #: 32284A6

SDG #: 0/5 ~~1485223~~ ~~F~~ 9R

Laboratory: eurofins

VALIDATION COMPLETENESS WORKSHEET

Level II

Date: 7/31/14

Page: 1 of 1

Reviewer: JD

2nd Reviewer: OR

METHOD: (Analyte) Dissolved Organic Carbon, Total Organic Carbon (SM3510 C-2000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 06/25/14
II.	Initial calibration	N	
III.	Calibration verification	N	
IV	Blanks	A	
V	Matrix Spike/Matrix Spike Duplicates	A	MS = 3 ~~4~~ 9
VI.	Duplicates	A	Dup
VII.	Laboratory control samples	A	LCS
VIII.	Sample result verification	N	
IX.	Overall assessment of data	A	
X.	Field duplicates	N	
XI	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: Waters

1	FGGM13-MW2R(062514) Grab Groundwater	11		21		31	
2	~~#1 F~~ 9	12		22		32	
3	#1 MS	13		23		33	
4	~~#2 MS~~ 9	14		24		34	
5	#1 Dup	15		25		35	
6	~~#2 Dup~~ 9	16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: "Samples Appended with "F" were analyzed for dissolved ~~TOC~~ Organic Carbon 9

LDC #: 32284A6

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: ~~CR~~ JS
2nd reviewer: CR

All circled methods are applicable to each sample.

Sample ID	Parameter
1	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4 DOC
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4

Comments:

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Fort Meade
Collection Date:	June 25, 2014
LDC Report Date:	July 31, 2014
Matrix:	Water
Parameters:	Methane, Ethane, & Ethene
Validation Level:	EPA Level II
Laboratory:	Eurofins
Sample Delivery Group (SDG):	1485223

Sample Identification

FGGM13-MW2R(062514)
FGGM13-MW2R(062514)MS
FGGM13-MW2R(062514)MSD

Introduction

This data review covers 3 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per Method RSK-175 for Methane, Ethane, and Ethene.

This review follows the Fort Meade Site-wide Quality Assurance Project Plan (Rev. 0.0, April 2010) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration data were not reviewed for Level II.

III. Continuing Calibration

Continuing calibration data were not reviewed for Level II.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No methane, ethane, or ethene was found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Target Compound Identification

Raw data were not reviewed for this SDG.

IX. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

X. System Performance

Raw data were not reviewed for this SDG.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

Fort Meade
Methane, Ethane, & Ethene - Data Qualification Summary - SDG 1485223

No Sample Data Qualified in this SDG

Fort Meade
Methane, Ethane, & Ethene - Laboratory Blank Data Qualification Summary - SDG 1485223

No Sample Data Qualified in this SDG

Fort Meade
Methane, Ethane, & Ethene - Field Blank Data Qualification Summary - SDG 1485223

No Sample Data Qualified in this SDG

LDC #: 32284A51
SDG #: 1485223
Laboratory: eurofins

VALIDATION COMPLETENESS WORKSHEET
Level II

Date: 7/31/14
Page: 1 of 1
Reviewer: JVG
2nd Reviewer: A

METHOD: GC Methane-Ethane-Ethene (Method RSK-175)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 6/25/14
II	Initial calibration	N	
III.	Calibration verification/ICV	N	
IV.	Blanks	A	
V	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	A	LCS
VIII.	Target compound identification	N	
IX.	Compound quantitation/RL/LOQ/LODs	N	
X.	System Performance	N	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet
ND = No compounds detected
R = Rinsate
FB = Field blank
D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples: Water

1	FGGM13-MW2R(062514) ~~Grab Groundwater~~	11	141890020A MB	21		31	
2	1 MS	12		22		32	
3	1 MSD	13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LABORATORY DATA CONSULTANTS, INC.
2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

ARCADIS U.S., Inc.
630 Plaza Drive, Suite 100
Highlands Ranch, CO 80129
ATTN: Mr. Keith Shepherd

October 13, 2014

SUBJECT: Fort Meade, FGGM13, Data Validation

Dear Mr. Shepherd,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on September 30, 2014. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #32763:

SDG #	**Fraction:**
FTM13, FTM14	Volatiles, Chlorinated Pesticides, Metals, Methane, Ethane, & Ethene, Wet Chemistry

The data validation was performed under EPA Level II guidelines. The analyses were validated using the following documents, as applicable to each method:

- Fort Meade Site-wide Quality Assurance Project Plan, Rev. 0.0, April 2010
- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, June 2008
- USEPA Contract Laboratory National Functional Guidelines for Inorganic Superfund Data Review, January 2010
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; Update IV, February 2007

Please feel free to contact us if you have any questions.

Sincerely,

Pei Geng
Project Manager/Senior Chemist

114 pages-SF

Attachment 1

Level II EDD

LDC #32763 (Arcadis-Millersville, MD / Fort Meade, FGGM13)

LDC	SDG#	DATE REC'D	(2) DATE DUE	VOA (8260B)		Pest. (8081B)		Metals (SW846)		Diss. Metals (SW846)		Methane Ethane Ethene		DOC (5310C)		TOC (5310C)																					
Matrix:	Water/Soil			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	FTM13	09/30/14	10/14/14	15	0	14	0	15	0	-	-	1	0	1	0																						
B	FTM14	09/30/14	10/14/14	-	-	-	-	-	-	15	0	-	-	-	-																						
Total	A/PG			15	0	14	0	15	0	15	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61

Shaded cells indicate Level IV validation (all other cells are Level II validation). These sample counts do not include MS/MSD, and DUPs

32763ST-FGGM13.wpd

LDC Report# 32763A1

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Fort Meade, FGGM13
Collection Date:	September 9 through September 10, 2014
LDC Report Date:	October 9, 2014
Matrix:	Water
Parameters:	Volatiles
Validation Level:	EPA Level II
Laboratory:	Eurofins Lancaster Laboratories
Sample Delivery Group (SDG):	FTM13

Sample Identification

FGGM13-MW1R(090914)
FGGM13-MW2R(091014)
FGGM13-MW3R(091014)
FGGM13-MW3R(091014)MS
FGGM13-MW3R(091014)MSD
FGGM13-MW4R(091014)
FGGM13-MW5(091014)
FGGM13-MW6(090914)
FGGM13-MW7(090914)
FGGM13-MW8(091014)
FGGM13-MW9(090914)
FGGM13-DUP01(091014)
FGGM13-RB(090914)
FGGM13-RB(091014)
FGGM13-TB(090914)

Introduction

This data review covers 15 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

This review follows the Fort Meade Site-wide Quality Assurance Project Plan (Rev. 0.0, April 2010) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance check data were not reviewed for Level II.

III. Initial Calibration

Initial calibration data were not reviewed for Level II.

IV. Continuing Calibration

Continuing calibration data were not reviewed for Level II.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks.

Sample FGGM13-TB(090914) was identified as a trip blank. No volatile contaminants were found.

Samples FGGM13-RB(090914) and FGGM13-RB(091014) were identified as rinsate blanks. No volatile contaminants were found.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) were not within QC limits. Since the sample concentration was greater than the spiked concentration, no data were qualified.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

Internal standards data were not reviewed for Level II.

XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

XII. Compound Quantitation

Raw data were not reviewed for this SDG.

XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

XIV. System Performance

Raw data were not reviewed for this SDG.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples FGGM13-MW4R(091014) and FGGM13-DUP01(091014) were identified as field duplicates. No volatiles were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
	FGGM13-MW4R(091014)	FGGM13-DUP01(091014)			
Chloroform	0.9	0.8	12 (≤50)	-	-
Tetrachloroethene	2.2	2.2	0 (≤50)	-	-

Fort Meade, FGGM13
Volatiles - Data Qualification Summary - SDG FTM13

No Sample Data Qualified in this SDG

Fort Meade, FGGM13
Volatiles - Laboratory Blank Data Qualification Summary - SDG FTM13

No Sample Data Qualified in this SDG

Fort Meade, FGGM13
Volatiles - Field Blank Data Qualification Summary - SDG FTM13

No Sample Data Qualified in this SDG

LDC #: 32763A1

VALIDATION COMPLETENESS WORKSHEET

Level II

Date: 10/07/14

SDG #: FTM13

Page: 1 of 1

Laboratory: europhins Lancaster Laboratories

Reviewer: DG

2nd Reviewer: [illegible]

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/09 – 10/14
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates ~~LD~~ MS	SW/~~A~~	
VIII.	Laboratory control samples	A	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/RL/LOQ/LODs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	SW	D = 6, 12
XVII.	Field blanks	ND	RB = 13, 14 TB = 15

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

Water

1	FGGM13-MW1R(090914) ~~Grab Groundwater~~	11	FGGM13-MW9(090914) ~~Grab Groundwater~~	21	- C1425614A Blk
2	FGGM13-MW2R(091014) ~~Grab Groundwater~~	12	FGGM13-DUP01(091014) ~~Grab Groundwater~~	22	
3	FGGM13-MW3R(091014) ~~Grab Groundwater~~	13	FGGM13-RB(090914) ~~Grab Water~~	23	
4	FGGM13-MW3R(091014)MS ~~Grab Groundwater~~	14	FGGM13-RB(091014) ~~Grab Water~~	24	
5	FGGM13-MW3R(091014)MSD ~~Grab Groundwater~~	15	FGGM13-TB(090914) ~~Water~~	25	
6	FGGM13-MW4R(091014) ~~Grab Groundwater~~	16		26	
7	FGGM13-MW5(091014) ~~Grab Groundwater~~	17		27	
8	FGGM13-MW6(090914) ~~Grab Groundwater~~	18		28	
9	FGGM13-MW7(090914) ~~Grab Groundwater~~	19		29	
10	FGGM13-MW8(091014) ~~Grab Groundwater~~	20		30	

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	U. 1,1,2-Trichloroethane	OO. 2,2-Dichloropropane	III. n-Butylbenzene	CCCC.1-Chlorohexane
B. Bromomethane	V. Benzene	PP. Bromochloromethane	JJJ. 1,2-Dichlorobenzene	DDDD. Isopropyl alcohol
C. Vinyl choride	W. trans-1,3-Dichloropropene	QQ. 1,1-Dichloropropene	KKK. 1,2,4-Trichlorobenzene	EEEE. Acetonitrile
D. Chloroethane	X. Bromoform	RR. Dibromomethane	LLL. Hexachlorobutadiene	FFFF. Acrolein
E. Methylene chloride	Y. 4-Methyl-2-pentanone	SS. 1,3-Dichloropropane	MMM. Naphthalene	GGGG. Acrylonitrile
F. Acetone	Z. 2-Hexanone	TT. 1,2-Dibromoethane	NNN. 1,2,3-Trichlorobenzene	HHHH. 1,4-Dioxane
G. Carbon disulfide	AA. Tetrachloroethene	UU. 1,1,1,2-Tetrachloroethane	OOO. 1,3,5-Trichlorobenzene	IIII. Isobutyl alcohol
H. 1,1-Dichloroethene	BB. 1,1,2,2-Tetrachloroethane	VV. Isopropylbenzene	PPP. trans-1,2-Dichloroethene	JJJJ. Methacrylonitrile
I. 1,1-Dichloroethane	CC. Toluene	WW. Bromobenzene	QQQ. cis-1,2-Dichloroethene	KKKK. Propionitrile
J. 1,2-Dichloroethene, total	DD. Chlorobenzene	XX. 1,2,3-Trichloropropane	RRR. m,p-Xylenes	LLLL. Ethyl ether
K. Chloroform	EE. Ethylbenzene	YY. n-Propylbenzene	SSS. o-Xylene	MMMM. Benzyl chloride
L. 1,2-Dichloroethane	FF. Styrene	ZZ. 2-Chlorotoluene	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	NNNN. Iodomethane
M. 2-Butanone	GG. Xylenes, total	AAA. 1,3,5-Trimethylbenzene	UUU. 1,2-Dichlorotetrafluoroethane	OOOO.1,1-Difluoroethane
N. 1,1,1-Trichloroethane	HH. Vinyl acetate	BBB. 4-Chlorotoluene	VVV. 4-Ethyltoluene	PPPP.
O. Carbon tetrachloride	II. 2-Chloroethylvinyl ether	CCC. tert-Butylbenzene	WWW. Ethanol	QQQQ.
P. Bromodichloromethane	JJ. Dichlorodifluoromethane	DDD. 1,2,4-Trimethylbenzene	XXX. Di-isopropyl ether	RRRR.
Q. 1,2-Dichloropropane	KK. Trichlorofluoromethane	EEE. sec-Butylbenzene	YYY. tert-Butanol	SSSS.
R. cis-1,3-Dichloropropene	LL. Methyl-tert-butyl ether	FFF. 1,3-Dichlorobenzene	ZZZ. tert-Butyl alcohol	TTTT.
S. Trichloroethene	MM. 1,2-Dibromo-3-chloropropane	GGG. p-Isopropyltoluene	AAAA. Ethyl tert-butyl ether	UUUU.
T. Dibromochloromethane	NN. Methyl ethyl ketone	HHH. 1,4-Dichlorobenzene	BBBB. tert-Amyl methyl ether	VVVV.

LDC #: 32763A1

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Reviewer: JVG
2nd Reviewer: [illegible]

METHOD : GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

Y N N/A Was a MS/MSD analyzed every 20 samples of each matrix?

Y N N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	4/5	AA	( )	30 (74-129)	( )	3	No qual
			( )	( )	( )		(Parent conc
			( )	( )	( )		> 4x Spike)
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

	Compound	QC Limits (Soil)	RPD (Soil)	QC Limits (Water)	RPD (Water)
H.	1,1-Dichloroethene	59-172%	≤ 22%	61-145%	≤ 14%
S.	Trichloroethene	62-137%	≤ 24%	71-120%	≤ 14%
V.	Benzene	66-142%	≤ 21%	76-127%	≤ 11%
CC.	Toluene	59-139%	≤ 21%	76-125%	≤ 13%
DD.	Chlorobenzene	60-133%	≤ 21%	75-130%	≤ 13%

LDC #: 32763 A1

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: JVG
2nd reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

Y N N/A Were field duplicate pairs identified in this SDG?
Y N N/A Were target compounds identified in the field duplicate pairs?

Compound	Concentration (ug/L)		RPD (≤ 50 %)	Qualifications (Parent only)
	6	12		
K	0.9	0.8	12	
AA	2.2	2.2	0	

Compound	Concentration ( )		RPD (≤ %)	Qualifications (Parent only)

Compound	Concentration ( )		RPD (≤ %)	Qualifications (Parent only)

LDC Report# 32763A3a

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Fort Meade, FGGM13
Collection Date:	September 9 through September 10, 2014
LDC Report Date:	October 9, 2014
Matrix:	Water
Parameters:	Chlorinated Pesticides
Validation Level:	EPA Level II
Laboratory:	Eurofins Lancaster Laboratories
Sample Delivery Group (SDG):	FTM13

Sample Identification

FGGM13-MW1R(090914)
FGGM13-MW2R(091014)
FGGM13-MW3R(091014)
FGGM13-MW3R(091014)MS
FGGM13-MW3R(091014)MSD
FGGM13-MW4R(091014)
FGGM13-MW5(091014)
FGGM13-MW6(090914)
FGGM13-MW7(090914)
FGGM13-MW8(091014)
FGGM13-MW9(090914)
FGGM13-DUP01(091014)
FGGM13-RB(090914)
FGGM13-RB(091014)

Introduction

This data review covers 14 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8081B for Chlorinated Pesticides.

This review follows the Fort Meade Site-wide Quality Assurance Project Plan (Rev. 0.0, April 2010) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance data were not reviewed for Level II.

III. Initial Calibration

Initial calibration data were not reviewed for Level II.

IV. Continuing Calibration

Continuing calibration data were not reviewed for Level II.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No chlorinated pesticide contaminants were found in the method blanks.

Samples FGGM13-RB(090914) and FGGM13-RB(091014) were identified as rinsate blanks. No chlorinated pesticide contaminants were found with the following exceptions:

Blank ID	Sampling Date	Compound	Concentration	Associated Samples
FGGM13-RB(090914)	9/9/14	beta-BHC	0.0043 ug/L	FGGM13-MW1R(090914) FGGM13-MW6(090914) FGGM13-MW7(090914) FGGM13-MW9(090914)

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated field blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
FGGM13-MW7(090914)	beta-BHC	0.0076 ug/L	0.0093U ug/L

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. Surrogate recoveries (%R) were not within QC limits for sample FGGM13-MW2R(091014). Since the samples were diluted greater than 5X, no data were qualified.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were not within the QC limits. Since the samples were diluted out, no data were qualified.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

Raw data were not reviewed for this SDG.

XIII. Compound Quantitation

Raw data were not reviewed for this SDG.

XIV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XV. Field Duplicates

Samples FGGM13-MW4R(091014) and FGGM13-DUP01(091014) were identified as field duplicates. No chlorinated pesticides were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
	FGGM13-MW4R(091014)	FGGM13-DUP01(091014)			
Aldrin	0.0081U	0.0037	75 (≤50)	J (all detects) UJ (all non-detects)	A
alpha-BHC	0.0041	0.0042	2 (≤50)	-	-
beta-BHC	0.0081U	0.0040	68 (≤50)	J (all detects) UJ (all non-detects)	A
gamma-BHC	0.12	0.12	0 (≤50)	-	-
alpha-Chlordane	0.29	0.29	0 (≤50)	-	-
gamma-Chlordane	0.23	0.24	4 (≤50)	-	-
Dieldrin	0.13	0.12	8 (≤50)	-	-
Endosulfan I	0.040	0.028	35 (≤50)	-	-
Endosulfan sulfate	0.013	0.013	0 (≤50)	-	-
Endrin ketone	0.015	0.015	0 (≤50)	-	-
Heptachlor epoxide	0.0081U	0.084	165 (≤50)	J (all detects) UJ (all non-detects)	A

Fort Meade, FGGM13
Chlorinated Pesticides - Data Qualification Summary - SDG FTM13

SDG	Sample	Compound	Flag	A or P	Reason
FTM13	FGGM13-MW4R(091014) FGGM13-DUP01(091014)	Aldrin beta-BHC Heptachlor epoxide	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD)

Fort Meade, FGGM13
Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG FTM13

SDG	Sample	Compound	Modified Final Concentration	A or P
FTM13	FGGM13-MW7(090914)	beta-BHC	0.0093U ug/L	A

Fort Meade, FGGM13
Chlorinated Pesticides - Field Blank Data Qualification Summary - SDG FTM13

No Sample Data Qualified in this SDG

LDC #: 32763A3a

SDG #: FTM13

Laboratory: europhins Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET

Level II

Date: 10/07/14

Page: 1 of 1

Reviewer: JVC

2nd Reviewer: [illegible]

METHOD: GC Chlorinated Pesticides/~~PCBs~~ (EPA SW 846 Method 8081B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/09 - 10/14
II.	GC Instrument Performance Check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	SW	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	A	LCS
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	N	
XIII.	Compound quantitation/LR/LOQ/LODs	N	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	SW	D = 6, 12
XVI.	Field blanks	SW	RB = 13, 14

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; *ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

Water

+ 1	FGGM13-MW1R(090914) ~~Grab Groundwater~~	11	FGGM13-MW9(090914) ~~Grab Groundwater~~	− 21	1425900 13A pik
+ 2	FGGM13-MW2R(091014) ~~Grab Groundwater~~	12	FGGM13-DUP01(091014) ~~Grab Groundwater~~	22	
+ 3	FGGM13-MW3R(091014) ~~Grab Groundwater~~	+ 13	FGGM13-RB(090914) ~~Grab Water~~	23	
4	FGGM13-MW3R(091014)MS ~~Grab Groundwater~~	− 14	FGGM13-RB(091014) ~~Grab Water~~	24	
5	FGGM13-MW3R(091014)MSD ~~Grab Groundwater~~	15		25	
6	FGGM13-MW4R(091014) ~~Grab Groundwater~~	16		26	
7	FGGM13-MW5(091014) ~~Grab Groundwater~~	17		27	
8	FGGM13-MW6(090914) ~~Grab Groundwater~~	18		28	
9	FGGM13-MW7(090914) ~~Grab Groundwater~~	19		29	
10	FGGM13-MW8(091014) ~~Grab Groundwater~~	20		30	

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH. Chlordane (Technical)
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II. Aroclor 1262
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ. Aroclor 1268
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. 2,4'-DDD	KK. Oxychlordane
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. 2,4'-DDE	LL. trans-Nonachlor
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM. cis-Nonachlor
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF. Hexachlorobenzene	NN. p,p- DDD

OO. p,p- DDE

Notes:

LDC #: 32763A3a

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC Pesticides/PCBs (EPA SW846 Method 8081/8082)
Y N N/A Were field blanks identified in this SDG?
Y N N/A Were target compounds detected in the field blanks?
Blank units: ug/L **Associated sample units:** ug/L
Sampling date: 9/9/14
Field blank type: (circle one) Field Blank / Rinsate / Other: RB Associated Samples: 1, 8, 9, 11

Compound	Blank ID	Sample Identification								
	13	9								
B	0.0043	0.0076/0.0093U								
CRQL										

Blank units: _____ **Associated sample units:** _____
Sampling date: _____
Field blank type: (circle one) Field Blank / Rinsate / Other: _____ Associated Samples: _____

Compound	Blank ID	Sample Identification								
CRQL										

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with compound concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

LDC #: 32763 A 3a

VALIDATION FINDINGS WORKSHEET
Surrogate Spikes

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Please see qualification below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were surrogates spiked into all samples, standards and blanks?

Y N N/A Did all surrogate percent recoveries (%R) meet the QC limits?

#	Sample ID	Column	Surrogate Compound	%R (Limits)	Qualifications
	2	NS	B	28 (32-149)	No [illegible] (dil)
	(10X)			( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	

Letter Designation	Surrogate Compound	Recovery QC Limits (Soil)	Recovery QC Limits (Water)	Comments
A	Tetrachloro-m-xylene			
B	Decachlorobiphenyl			

LDC #: 32763A3a

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Reviewer: JVG
2nd Reviewer:

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG?
Y N N/A Was a MS/MSD analyzed every 20 samples for each matrix or whenever a sample extraction was performed?
Y N N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	4/5	S	-18 (60-129)	-168 (60-129)	( )	3	No qual
	(10X)	T	150 (56-136)	-18 (56-136)	( )		a(Dil)
		NN	171 (56-143)	203 (56-143)	( )		
		OO	141 (57-135)	(~~57-135~~)	( )		
		H	( )	52 (62-1[illegible])	( )		
		L	136 (52-135)	( )	( )		
		G	314 (61-133)	293 (61-133)	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
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			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

LDC#: 32763A3

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: GC Pesticides (EPA SW 846 Method 8081A)

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

Compound	Concentration (ug/L)		RPD (≤50%)	Qualifications (Parent only)
	6	12		
F	0.0081U	0.0037	75	J/UJ/A
A	0.0041	0.0042	2	
B	0.0081U	0.0040	68	J/UJ/A
D	0.12	0.12	0	
S	0.29	0.29	0	
T	0.23	0.24	4	
I	0.13	0.12	8	
H	0.040	0.028	35	
N	0.013	0.013	0	
Q	0.015	0.015	0	
G	0.0081U	0.084	165	J/UJ/A

V:\FIELD DUPLICATES\32763A3.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Fort Meade, FGGM13
Collection Date:	September 9 through September 10, 2014
LDC Report Date:	October 9, 2014
Matrix:	Water
Parameters:	Metals
Validation Level:	EPA Level II
Laboratory:	Eurofins Lancaster Laboratories
Sample Delivery Group (SDG):	FTM13

Sample Identification

FGGM13-MW1R(090914)
FGGM13-MW2R(091014)
FGGM13-MW3R(091014)
FGGM13-MW3R(091014)MS
FGGM13-MW3R(091014)MSD
FGGM13-MW3R(091014)DUP
FGGM13-MW4R(091014)
FGGM13-MW5(091014)
FGGM13-MW6(090914)
FGGM13-MW7(090914)
FGGM13-MW8(091014)
FGGM13-MW9(090914)
FGGM13-DUP01(091014)
FGGM13-RB(090914)
FGGM13-RB(091014)

Introduction

This data review covers 15 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010C, 6020A and 7470A for Metals. The metals analyzed were Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, and Zinc.

This review follows the Fort Meade, FGGM13 Site-wide Quality Assurance Project Plan (Rev. 0.0, April 2010) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol)or A (advisory)to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. ICPMS Tune

ICP-MS tune data were not reviewed for Level II.

III. Calibration

Calibration data were not reviewed for Level II.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No metal contaminants were found in the preparation blanks.

Samples FGGM13-RB(090914) and FGGM13-RB(091014) were identified as rinsate blanks. No metal contaminants were found with the following exceptions:

Blank ID	Sampling Date	Analyte	Concentration	Associated Samples
FGGM13-RB(090914)	9/9/14	Calcium Magnesium Sodium	0.0564 mg/L 0.0215 mg/L 0.244 mg/L	FGGM13-MW1R(090914) FGGM13-MW6(090914) FGGM13-MW7(090914) FGGM13-MW9(090914)
FGGM13-RB(091014)	9/10/14	Calcium Magnesium	0.0506 mg/L 0.0180 mg/L	FGGM13-MW2R(091014) FGGM13-MW3R(091014) FGGM13-MW4R(091014) FGGM13-MW5(091014) FGGM13-MW8(091014) FGGM13-DUP01(091014)

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated field blanks.

V. ICP Interference Check Sample (ICS) Analysis

ICP Interference check sample (ICS) analysis data were not reviewed for Level II.

VI. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
FGGM13-MW3R(091014)MS /MSD (All samples in SDG FTM13)	Aluminum Iron	131 (75-125) 126 (75-125)	133 (75-125) 126 (75-125)	- -	J (all detects) J (all detects)	A

For FGGM13-MW3R(091014)MS, no data were qualified for Sodium percent recovery outside the QC limits since the parent sample results were greater than 4X the spike concentration.

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Internal Standards

Internal standards data were not reviewed for Level II.

X. ICP Serial Dilution

ICP Serial dilution data were not reviewed for Level II.

XI. Sample Result Verification

Raw data were not reviewed for this SDG.

XII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIII. Field Duplicates

Samples FGGM13-MW4R(091014) and FGGM13-DUP01(091014) were identified as field duplicates. No metals were detected in any of the samples with the following exceptions:

Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
	FGGM13-MW4R(091014)	FGGM13-DUP01(091014)			
Aluminum	1.62	1.68	4 (≤50)	-	-

Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
	FGGM13-MW4R(091014)	FGGM13-DUP01(091014)			
Barium	0.0541	0.0530	2 (≤50)	-	-
Calcium	26.0	25.9	0 (≤50)	-	-
Chromium	0.0025	0.0025	0 (≤50)	-	-
Copper	0.02U	0.0033	143 (≤50)	J (all detects) UJ (all non-detects)	A
Iron	1.45	1.54	6 (≤50)	-	-
Lead	0.00052	0.00048	8 (≤50)	-	-
Magnesium	4.38	4.26	3 (≤50)	-	-
Manganese	0.0087	0.0097	11 (≤50)	-	-
Potassium	2.21	2.18	1 (≤50)	-	-
Sodium	46.6	46.6	0 (≤50)	-	-
Vanadium	0.0033	0.0039	17 (≤50)	-	-
Zinc	0.0028	0.0032	13 (≤50)	-	-

Fort Meade, FGGM13
Metals - Data Qualification Summary - SDG FTM13

SDG	Sample	Analyte	Flag	A or P	Reason
FTM13	FGGM13-MW1R(090914) FGGM13-MW2R(091014) FGGM13-MW3R(091014) FGGM13-MW4R(091014) FGGM13-MW5(091014) FGGM13-MW6(090914) FGGM13-MW7(090914) FGGM13-MW8(091014) FGGM13-MW9(090914) FGGM13-DUP01(091014) FGGM13-RB(090914) FGGM13-RB(091014)	Aluminum Iron	J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicate (%R)
FTM13	FGGM13-MW1R(090914) FGGM13-MW2R(091014) FGGM13-MW3R(091014) FGGM13-MW4R(091014) FGGM13-MW5(091014) FGGM13-MW6(090914) FGGM13-MW7(090914) FGGM13-MW8(091014) FGGM13-MW9(090914) FGGM13-DUP01(091014) FGGM13-RB(090914) FGGM13-RB(091014)	Copper	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD)

Fort Meade, FGGM13
Metals - Laboratory Blank Data Qualification Summary - SDG FTM13

No Sample Data Qualified in this SDG

Fort Meade, FGGM13
Metals - Field Blank Data Qualification Summary - SDG FTM13

No Sample Data Qualified in this SDG

LDC #: 32763A4

VALIDATION COMPLETENESS WORKSHEET

Level II

Date: 9/30/14

SDG #: FTM13

Page: 1 of 1

Laboratory: europhins Lancaster Laboratories

Reviewer: KR

2nd Reviewer: MG

METHOD: Metals (EPA SW 846 Method 6010C/6020A/~~7000~~ 7470A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/9-9/10/14
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	MS/D 4/5: (Na > 4x)
VII.	Duplicate Sample Analysis	A	~~Fe, Al, Hg ok by diff~~ Fe, Al, Hg ok by diff.
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	ICP Serial Dilution	N	
XI.	Sample Result Verification	N	
XII.	Overall Assessment of Data	A	
XIII.	Field Duplicates	SW	(7, 13)
XIV.	Field Blanks	SW	RB = 14, 15

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: Water

1	FGGM13-MW1R(090914) Grab Groundwater	11	FGGM13-MW8(091014) Grab Groundwater	21	
2	FGGM13-MW2R(091014) ~~Grab Groundwater~~	12	FGGM13-MW9(090914) ~~Grab Groundwater~~	22	
3	FGGM13-MW3R(091014) ~~Grab Groundwater~~	13	FGGM13-DUP01(091014) ~~Grab Groundwater~~	23	
4	FGGM13-MW3R(091014)MS ~~Grab Groundwater~~	14	FGGM13-RB(090914) ~~Grab Water~~	24	
5	FGGM13-MW3R(091014)MSD ~~Grab Groundwater~~	15	FGGM13-RB(091014) ~~Grab Water~~	25	
6	FGGM13-MW3R(091014)DUP ~~Grab Groundwater~~	16		26	
7	FGGM13-MW4R(091014) ~~Grab Groundwater~~	17		27	
8	FGGM13-MW5(091014) ~~Grab Groundwater~~	18		28	
9	FGGM13-MW6(090914) ~~Grab Groundwater~~	19		29	
10	FGGM13-MW7(090914) ~~Grab Groundwater~~	20		30	

Notes:

LDC #: 32763A4

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Reviewer: KK
2nd reviewer: MG

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-3,7-15	Water	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
	↓	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
QC 4-6	↓	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
Analysis Method		
ICP		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U

Comments: ~~Mercury by CVAA if performed~~

LDC #: 32763A4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: KC
2nd Reviewer: MG

METHOD: Metals (EPA SW846 6010C/6020A/7470A)

Blank units: mg/L **Associated sample units:** mg/L
Sampling date: 9/9/14 Soil factor applied NA
Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples: 1, 9, 10, 12

Analyte	Blank ID	Sample Identification											
	14	Action Limit	no quals										
Ca	0.0564	0.282											
Mg	0.0215	0.108											
Na	0.244	1.22											

Blank units: mg/L **Associated sample units:** mg/L
Sampling date: 9/10/14 Soil factor applied NA
Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples: 2, 3, 7, 8, 11, 13

Analyte	Blank ID	Sample Identification											
	14	Action Limit	no quals										
Ca	0.0506	0.253											
Mg	0.0180	0.090											

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

LDC #: [illegible]

VALIDATION FINDINGS WORKSHEET

Matrix Spike/Matrix Spike Duplicates

Page: [illegible]

Reviewer: KK

2nd Reviewer: MG

METHOD: Trace metals (EPA SW 846 Method 6010~~B~~C/6020A/~~7000~~ 7470A)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a matrix spike analyzed for each matrix in this SDG?

Y N N/A Were matrix spike percent recoveries (%R) within the control limits of 75-125? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.

Y N N/A Were all duplicate sample relative percent differences (RPD) ≤ 20% for water samples and ≤35% for soil samples?

LEVEL IV ONLY:

Y N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	MS/MSD ID	Matrix	Analyte	MS %Recovery	MSD %Recovery	RPD (Limits)	Associated Samples	Qualifications
	4/5	Water	Al	131 (75-125)	133 (75-125)	~~25 (20)~~	All	~~J/UJ/A~~ J det/A
	↓	↓	Fe	126 (75-125)	126 (75-125)		↓	J det/A

Comments: 4 (Na > 4x)

MSD.4SW

LDC#: 32763A4

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: KW
2nd Reviewer: MG

METHOD: Metals (EPA Method 6010C/6020A/7470A)

Analyte	Concentration (mg/L)		RPD (≤50)	Qualifier all samples
	7	13		
Aluminum	1.62	1.68	4	
Barium	0.0541	0.0530	2	
Calcium	26.0	25.9	0	
Chromium	0.0025	0.0025	0	
Copper	0.02U	0.0033	143	J/UJ/A
Iron	1.45	1.54	6	
Lead	0.00052	0.00048	8	
Magnesium	4.38	4.26	3	
Manganese	0.0087	0.0097	11	
Potassium	2.21	2.18	1	
Sodium	46.6	46.6	0	
Vanadium	0.0033	0.0039	17	
Zinc	0.0028	0.0032	13	

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Fort Meade, FGGM13
Collection Date:	September 10, 2014
LDC Report Date:	October 9, 2014
Matrix:	Water
Parameters:	Wet Chemistry
Validation Level:	EPA Level II
Laboratory:	Eurofins Lancaster Laboratories
Sample Delivery Group (SDG):	FTM13

Sample Identification

FGGM13-MW2R(091014)
FGGM13-MW2R(091014)MS
FGGM13-MW2R(091014)DUP

Introduction

This data review covers 3 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per Standard Method 5310C-2000 for Dissolved Organic Carbon and Total Organic Carbon.

This review follows the Fort Meade Site-wide Quality Assurance Project Plan (Rev. 0.0, April 2010) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration data were not reviewed for Level II.

III. Continuing Calibration

Continuing calibration data were not reviewed for Level II.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the preparation blanks.

No field blanks were identified in this SDG.

V. Matrix Spike

A matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VI. Duplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Sample Result Verification

Raw data were not reviewed for this SDG.

IX. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

X. Field Duplicates

No field duplicates were identified in this SDG.

Fort Meade, FGGM13
Wet Chemistry - Data Qualification Summary - SDG FTM13

No Sample Data Qualified in this SDG

Fort Meade, FGGM13
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG FTM13

No Sample Data Qualified in this SDG

Fort Meade, FGGM13
Wet Chemistry - Field Blank Data Qualification Summary - SDG FTM13

No Sample Data Qualified in this SDG

LDC #: 32763A6

SDG #: FTM13

Laboratory: eurofins Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET

Level II

Date: 10/1/14

Page: 1 of 1

Reviewer: KK

2nd Reviewer: MG

9MA SM5310 C-2000

METHOD: (Analyte) Dissolved Organic Carbon, Total Organic Carbon (SM5310 C-2000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/10/14
II.	Initial calibration	N	
III.	Calibration verification	N	
IV	Blanks	A	
V	Matrix Spike/Matrix Spike Duplicates	A	~~MS from SDG # KK~~ MS
VI.	Duplicates	A	DUP (TOC ok by diff)
VII.	Laboratory control samples	A	LCS
VIII.	Sample result verification	N	
IX.	Overall assessment of data	A	
X.	Field duplicates	N	
XI.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: Water

1	FGGM13-MW2R(091014) ~~Grab Groundwater~~	11		21		31	
2	FGGM13-MW2R(091014) MS ~~Grab Groundwater~~	12		22		32	
3	~~FGGM13-MW2R(091014) MSD Grab Groundwater~~	13		23		33	
4	FGGM13-MW2R(091014) DUP ~~Grab Groundwater~~	14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 32763A6

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: KK
2nd reviewer: MG

All circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1	W	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4 DOC
	↓	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
QC 7/4	↓	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4 DOC
		pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4

Comments:

LDC Report# 32763A51

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Fort Meade, FGGM13
Collection Date:	September 10, 2014
LDC Report Date:	October 9, 2014
Matrix:	Water
Parameters:	Methane, Ethane, & Ethene
Validation Level:	EPA Level II
Laboratory:	Eurofins Lancaster Laboratories
Sample Delivery Group (SDG):	FTM13

Sample Identification

FGGM13-MW2R(091014)

Introduction

This data review covers one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per Method RSK-175 for Methane, Ethane, and Ethene.

This review follows the Fort Meade Site-wide Quality Assurance Project Plan (Rev. 0.0, April 2010) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration data were not reviewed for Level II.

III. Continuing Calibration

Continuing calibration data were not reviewed for Level II.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No methane, ethane, or ethene was found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were not required by the method.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) were not within QC limits. Since the sample concentration was greater than the spiked concentration, no data were qualified.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Target Compound Identification

Raw data were not reviewed for this SDG.

IX. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

X. System Performance

Raw data were not reviewed for this SDG.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

Fort Meade, FGGM13
Methane, Ethane, & Ethene - Data Qualification Summary - SDG FTM13

No Sample Data Qualified in this SDG

Fort Meade, FGGM13
Methane, Ethane, & Ethene - Laboratory Blank Data Qualification Summary - SDG FTM13

No Sample Data Qualified in this SDG

Fort Meade, FGGM13
Methane, Ethane, & Ethene - Field Blank Data Qualification Summary - SDG FTM13

No Sample Data Qualified in this SDG

LDC #: 32763A51

SDG #: FTM13

Laboratory: eurofins Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET

Level II

Date: 10/07/14

Page: 1 of 1

Reviewer: SVG

2nd Reviewer: [illegible]

METHOD: GC Methane-Ethane-Ethene (Method RSK-175)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/10/14
II	Initial calibration	N	
III.	Calibration verification/ICV	N	
IV.	Blanks	A	
V	Surrogate recovery	N	NR
VI.	Matrix spike/Matrix spike duplicates	SW	
VII.	Laboratory control samples	A	LCS
VIII.	Target compound identification	N	
IX.	Compound quantitation/RL/LOQ/LODs	N	
X.	System Performance	N	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

Water

1	FGGM13-MW2R(091014) ~~Grab Groundwater~~	11	1426100324Blk	21		31	
2		12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 32763 A51

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Reviewer: JVG
2nd Reviewer:

METHOD: ___ GC ___ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG?

Y N N/A Was an MS/MSD analyzed every 20 samples for each matrix or whenever a sample extraction was performed?

Y N N/A Were the MS/MSD percent recoveries (%R) and relative percent differences (RPD) within QC limits?

#	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	2/3	Methane	( )	144 (46-129)	( )	1	No qual (Parent conc >4x spike)
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
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			( )	( )	( )		
			( )	( )	( )		

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Fort Meade, FGGM13
Collection Date:	September 9 through September 10, 2014
LDC Report Date:	October 9, 2014
Matrix:	Water
Parameters:	Dissolved Metals
Validation Level:	EPA Level II
Laboratory:	Eurofins Lancaster Laboratories
Sample Delivery Group (SDG):	FTM14

Sample Identification

FGGM13-MW1R(090914)
FGGM13-MW2R(091014)
FGGM13-MW3R(091014)
FGGM13-MW3R(091014)MS
FGGM13-MW3R(091014)MSD
FGGM13-MW3R(091014)DUP
FGGM13-MW4R(091014)
FGGM13-MW5(091014)
FGGM13-MW6(090914)
FGGM13-MW7(090914)
FGGM13-MW8(091014)
FGGM13-MW9(090914)
FGGM13-DUP01(091014)
FGGM13-RB(090914)
FGGM13-RB(091014)

Introduction

This data review covers 15 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010C, 6020A and 7470A for Dissolved Metals. The metals analyzed were Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, and Zinc.

This review follows the Fort Meade, FGGM13 Site-wide Quality Assurance Project Plan (Rev. 0.0, April 2010) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol)or A (advisory)to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. ICPMS Tune

ICP-MS tune data were not reviewed for Level II.

III. Calibration

Calibration data were not reviewed for Level II.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No dissolved metal contaminants were found in the preparation blanks.

Samples FGGM13-RB(090914) and FGGM13-RB(091014) were identified as rinsate blanks. No dissolved metal contaminants were found with the following exceptions:

Blank ID	Sampling Date	Analyte	Concentration	Associated Samples
FGGM13-RB(090914)	9/9/14	Calcium Magnesium Sodium Zinc	0.0866 mg/L 0.0189 mg/L 0.189 mg/L 0.0040 mg/L	FGGM13-MW1R(090914) FGGM13-MW6(090914) FGGM13-MW7(090914) FGGM13-MW9(090914)
FGGM13-RB(091014)	9/10/14	Calcium Magnesium Sodium	0.0925 mg/L 0.0202 mg/L 0.196 mg/L	FGGM13-MW2R(091014) FGGM13-MW3R(091014) FGGM13-MW4R(091014) FGGM13-MW5(091014) FGGM13-MW8(091014) FGGM13-DUP01(091014)

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated field blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
FGGM13-MW6(090914)	Zinc	0.0054 mg/L	0.0054U mg/L
FGGM13-MW7(090914)	Zinc	0.0154 mg/L	0.0154U mg/L

Sample	Analyte	Reported Concentration	Modified Final Concentration
FGGM13-MW9(090914)	Zinc	0.0055 mg/L	0.0055U mg/L

V. ICP Interference Check Sample (ICS) Analysis

ICP Interference check sample (ICS) analysis data were not reviewed for Level II.

VI. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Internal Standards

Internal standards data were not reviewed for Level II.

X. ICP Serial Dilution

ICP Serial dilution data were not reviewed for Level II.

XI. Sample Result Verification

Raw data were not reviewed for this SDG.

XII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIII. Field Duplicates

Samples FGGM13-MW4R(091014) and FGGM13-DUP01(091014) were identified as field duplicates. No dissolved metals were detected in any of the samples with the following exceptions:

Analyte	Concentration (mg/L)		RPD (Limits)	Flag	A or P
	FGGM13-MW4R(091014)	FGGM13-DUP01(091014)			
Barium	0.0474	0.0482	2 (≤50)	-	-
Calcium	23.7	26.7	12 (≤50)	-	-
Magnesium	4.23	4.31	2 (≤50)	-	-
Manganese	0.0061	0.0064	5 (≤50)	-	-
Potassium	1.95	2.00	3 (≤50)	-	-
Sodium	42.5	47.3	11 (≤50)	-	-
Zinc	0.0023	0.0023	0 (≤50)	-	-

Fort Meade, FGGM13
Metals - Data Qualification Summary - SDG FTM14

No Sample Data Qualified in this SDG

Fort Meade, FGGM13
Metals - Laboratory Blank Data Qualification Summary - SDG FTM14

No Sample Data Qualified in this SDG

Fort Meade, FGGM13
Metals - Field Blank Data Qualification Summary - SDG FTM14

SDG	Sample	Analyte	Modified Final Concentration	A or P
FTM14	FGGM13-MW6(090914)	Zinc	0.0054U mg/L	A
FTM14	FGGM13-MW7(090914)	Zinc	0.0154U mg/L	A
FTM14	FGGM13-MW9(090914)	Zinc	0.0055U mg/L	A

LDC #: 32763B4

SDG #: FTM14

Laboratory: europhins Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET

Level II

Date: 10/1/14

Page: 1 of 1

Reviewer: KK

2nd Reviewer: MG

METHOD: Dissolved Metals (EPA SW 846 Method 6010C/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/9 - 9/10/14
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	A	MS/D 4/5 (Ca, Na > 4x)
VII.	Duplicate Sample Analysis	A	DUP 6: (Sb ok by diff)
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	ICP Serial Dilution	N	
XI.	Sample Result Verification	N	
XII.	Overall Assessment of Data	A	
XIII.	Field Duplicates	SW	(7, 13)
XIV.	Field Blanks	SW	RB=14, 15

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: Water

1	FGGM13-MW1R(090914) ~~Filtered Grab Groundwater~~	11	FGGM13-MW8(091014) ~~Filtered Grab Groundwater~~	21	
2	FGGM13-MW2R(091014) ~~Filtered Grab Groundwater~~	12	FGGM13-MW9(090914) ~~Filtered Grab Groundwater~~	22	
3	FGGM13-MW3R(091014) ~~Filtered Grab Groundwater~~	13	FGGM13-DUP01(091014) ~~Filtered Grab Groundwater~~	23	
4	FGGM13-MW3R(091014)MS ~~Filtered Grab Groundwater~~	14	FGGM13-RB(090914) ~~Filtered Grab Water~~	24	
5	FGGM13-MW3R(091014)MSD ~~Filtered Grab Groundwater~~	15	FGGM13-RB(091014) ~~Filtered Grab Water~~	25	
6	FGGM13-MW3R(091014)DUP ~~Filtered Grab Groundwater~~	16		26	
7	FGGM13-MW4R(091014) ~~Filtered Grab Groundwater~~	17		27	
8	FGGM13-MW5(091014) ~~Filtered Grab Groundwater~~	18		28	
9	FGGM13-MW6(090914) ~~Filtered Grab Groundwater~~	19		29	
10	FGGM13-MW7(090914) ~~Filtered Grab Groundwater~~	20		30	

Notes:

LDC #: 32763B4

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Reviewer: KK
2nd reviewer: MG

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-3, 7-15	W	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
	↓	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
FC 4-6	↓	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
Analysis Method		
ICP		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, U,

Comments: Mercury by CVAA if performed

LDC #: 32763B4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: KL
2nd Reviewer: MG

METHOD: Dissolved Metals (EPA SW846 6010C/6020A/7470A)

Blank units: mg/L **Associated sample units:** mg/L
Sampling date: 9/9/14 Soil factor applied NA
Field blank type: (circle one) Field Blank / Rinsate / Other: (RB) Associated Samples: 1, 9, 10, 12

Analyte	Blank ID	Sample Identification											
	14	Action Limit	9	10	12								
Ca	0.0866	0.433											
Mg	0.0189	0.0945											
Na	0.189	0.945											
Zn	0.0040	0.020	0.0054	0.0154	0.0055								

Blank units: mg/L **Associated sample units:** mg/L
Sampling date: 9/10/14 Soil factor applied NA
Field blank type: (circle one) Field Blank / Rinsate / Other: (RB) Associated Samples: 2, 3, 7, 8, 11, 13

Analyte	Blank ID	Sample Identification											
	15	Action Limit	no quals										
Ca	0.0925	0.4625											
Mg	0.0202	0.101											
Na	0.196	0.98											

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

LDC#: 32763B4

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: KK
2nd Reviewer: MG

METHOD: Metals (EPA Method 6010C/6020A/7470A)

Analyte	Concentration (mg/L)		RPD (≤50)	Qualifier
	7	13		
Barium	0.0474	0.0482	2	
Calcium	23.7	26.7	12	
Magnesium	4.23	4.31	2	
Manganese	0.0061	0.0064	5	
Potassium	1.95	2.00	3	
Sodium	42.5	47.3	11	
Zinc	0.0023	0.0023	0	

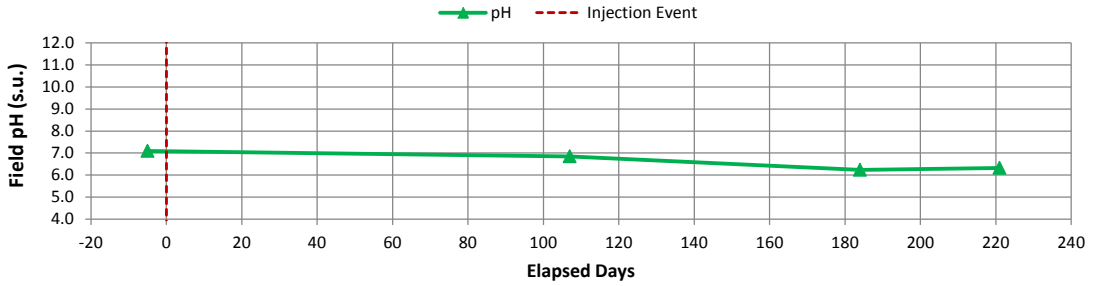
\\LDCFILESERVER\Validation\FIELD DUPLICATES\FD_inorganic\32763B4.wpd

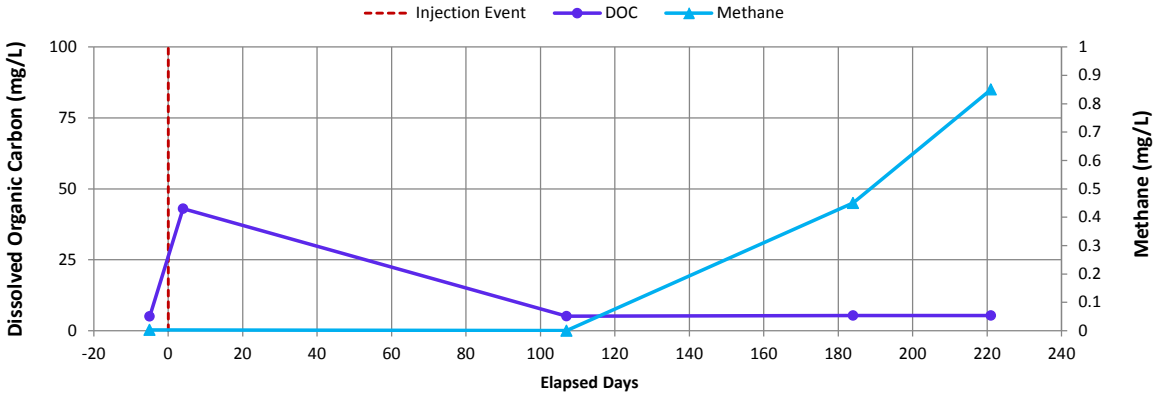
Attachment 4

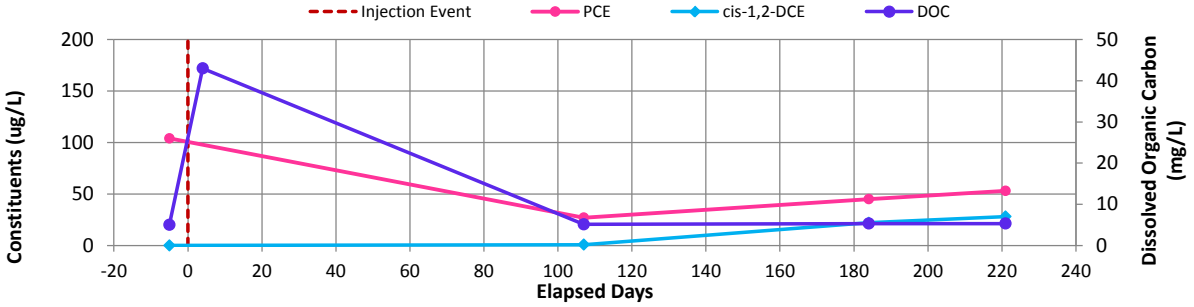
Performance Monitoring Charts

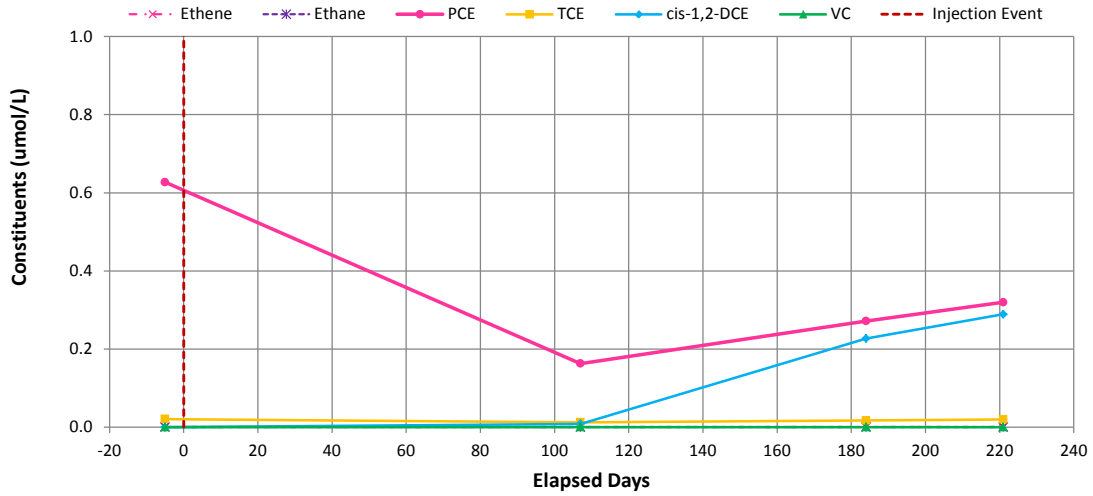
Attachment 4
Performance Monitoring Charts
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland

MW-2R







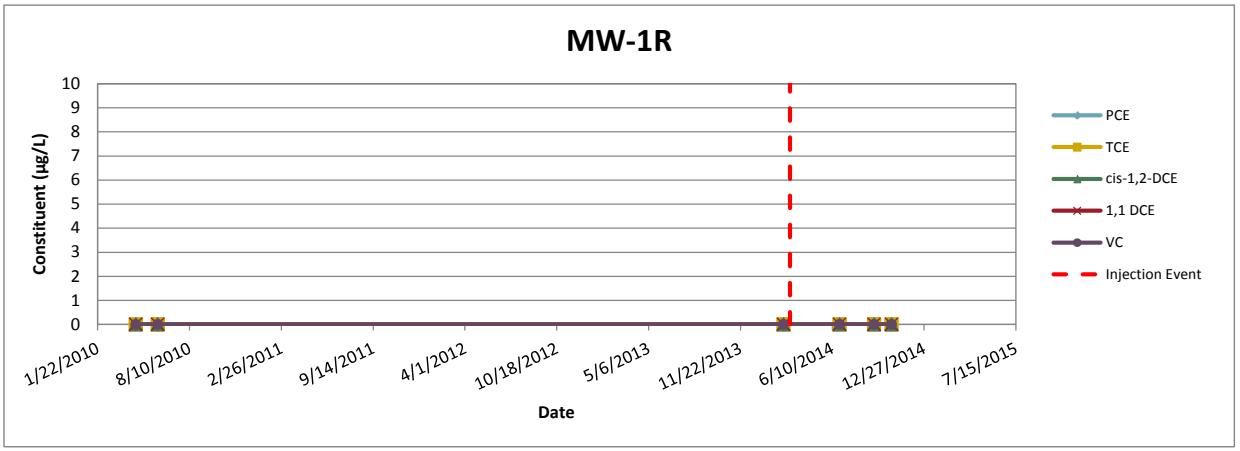


Attachment 5

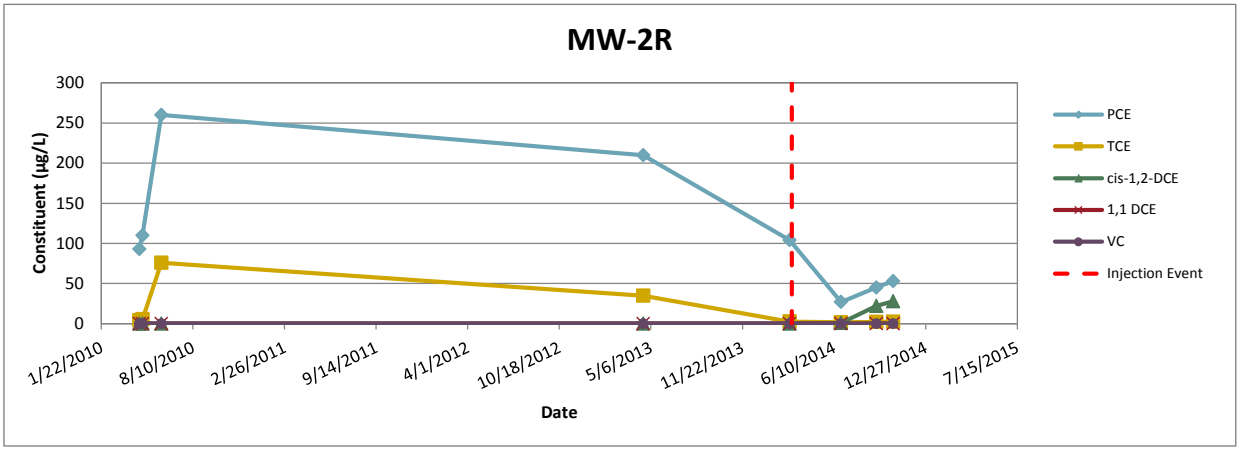
Data Trend Charts

Attachment 5
Data Trend Charts
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland

Chlorinated Volatile Organic Compounds

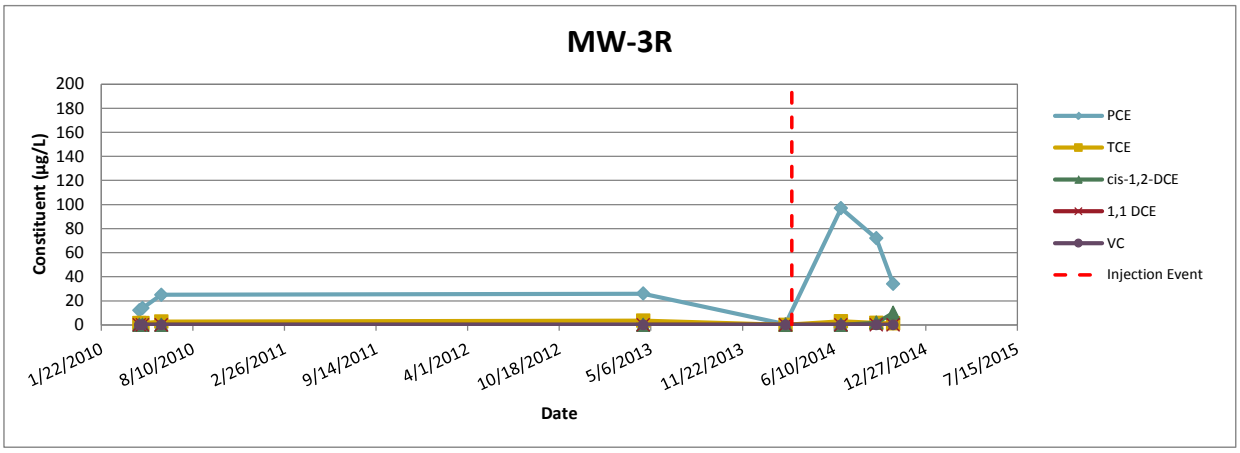


Analyte	SCL	4/15/2010	6/2/2010	2/24/2014	6/26/2014	9/9/2014	10/17/2014
PCE	5	ND	ND	ND	ND	ND	ND
TCE	5	ND	ND	ND	ND	ND	ND
1,1-DCE	---	ND	ND	ND	ND	ND	ND
cis-DCE	---	ND	ND	ND	ND	ND	ND
VC	---	ND	ND	ND	ND	ND	ND

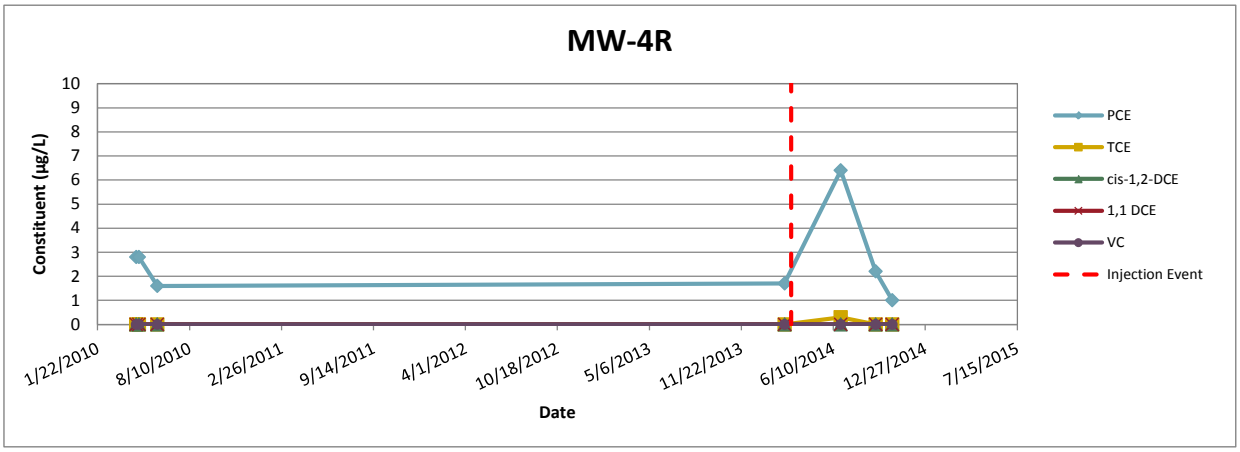


Analyte	SCL	4/15/2010	4/22/2010	6/2/2010	4/19/2013	3/5/2014	6/25/2014	9/10/2014	10/17/2014
PCE	5	**93**	**110**	**260**	**210**	**104**	**27**	**45**	**53**
TCE	5	4.3 J	**5.5**	**76**	**35**	2.7	1.6	2.2	2.6
1,1-DCE	---	ND	ND	ND	ND	ND	ND	ND	ND
cis-DCE	---	ND	ND	ND	ND	ND	0.8	22	28
VC	---	ND	ND	ND	ND	ND	ND	ND	ND

Attachment 5
Data Trend Charts
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland



Analyte	SCL	4/15/2010	4/22/2010	6/2/2010	4/19/2013	2/24/2014	6/25/2014	9/10/2014	10/17/2014
PCE	5	**12**	**15**	**25**	**26**	0.52 J	**97**	**72**	**34**
TCE	5	1.4 J	1.5 J	2.7 J	3.5	ND	3.0	1.7	1.3
1,1-DCE	---	ND	ND	ND	ND	ND	ND	ND	ND
cis-DCE	---	ND	ND	ND	ND	ND	ND	1.8	10
VC	---	ND	ND	ND	ND	ND	ND	ND	ND



Analyte	SCL	4/16/2010	4/22/2010	6/1/2010	2/24/2014	6/26/2014	9/10/2014	10/16/2014
PCE	5	2.8 J	2.8 J	1.6 J	1.7	**6.4**	2.2	1.0
TCE	5	ND	ND	ND	ND	0.3 J	ND	ND
1,1-DCE	---	ND	ND	ND	ND	ND	ND	ND
cis-DCE	---	ND	ND	ND	ND	ND	ND	ND
VC	---	ND	ND	ND	ND	ND	ND	ND

Attachment 5
Data Trend Charts
FGGM 13 Former Pesticide Shop, Building 6621
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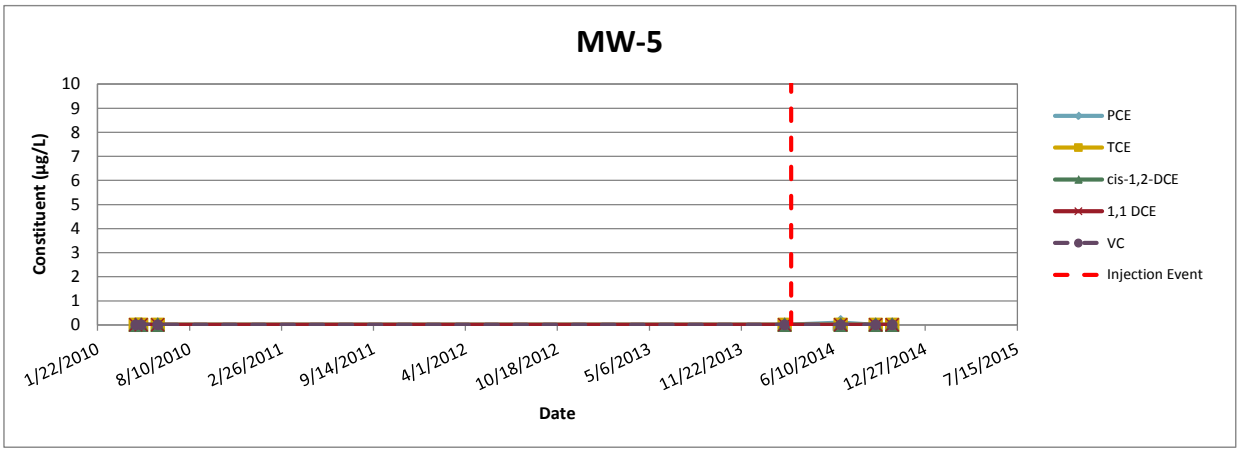
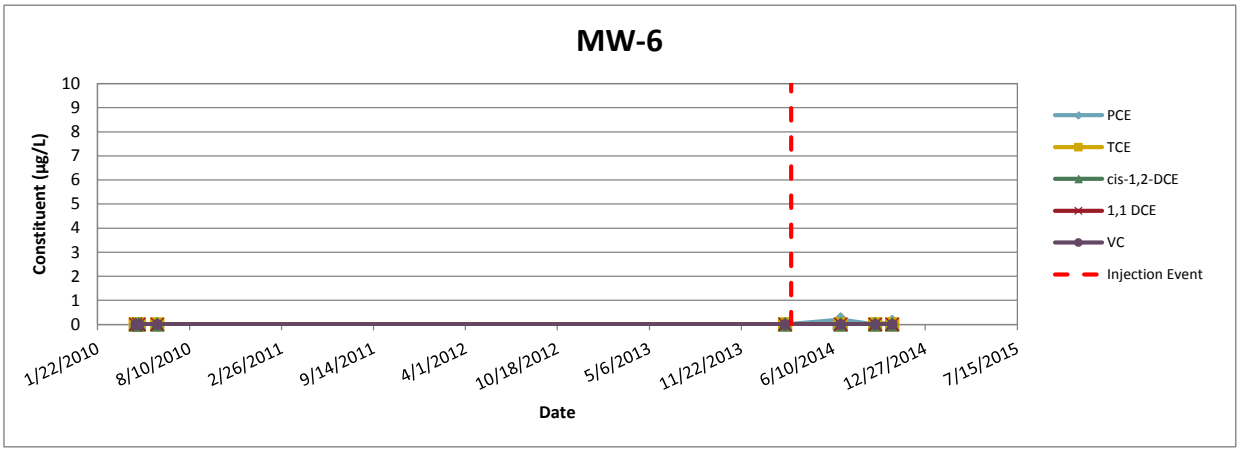


Analyte	SCL	4/15/2010	4/27/2010	6/2/2010	2/24/2014	6/26/2014	9/9/2014	10/16/2014
PCE	5	ND	ND	ND	ND	0.1 J	ND	ND
TCE	5	ND	ND	ND	ND	ND	ND	ND
1,1-DCE	---	ND	ND	ND	ND	ND	ND	ND
cis-DCE	---	ND	ND	ND	ND	ND	ND	ND
VC	---	ND	ND	ND	ND	ND	ND	ND



Analyte	SCL	4/15/2010	4/22/2010	6/1/2010	2/25/2014	6/26/2014	9/9/2014	10/16/2014
PCE	5	ND	ND	ND	ND	0.2 J	ND	0.1
TCE	5	ND	ND	ND	ND	ND	ND	ND
1,1-DCE	---	ND	ND	ND	ND	ND	ND	ND
cis-DCE	---	ND	ND	ND	ND	ND	ND	ND
VC	---	ND	ND	ND	ND	ND	ND	ND

Attachment 5
Data Trend Charts
FGGM 13 Former Pesticide Shop, Building 6621
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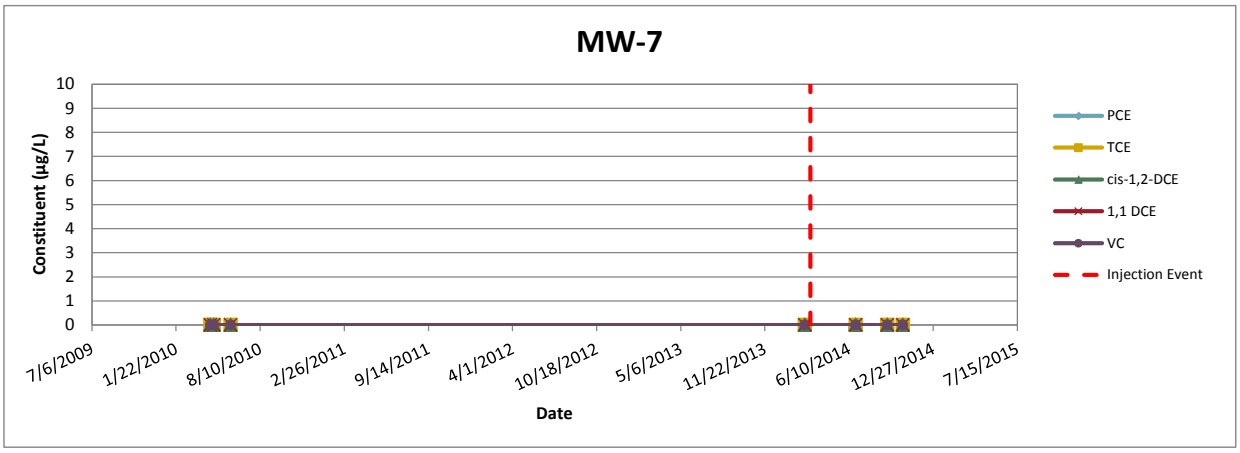
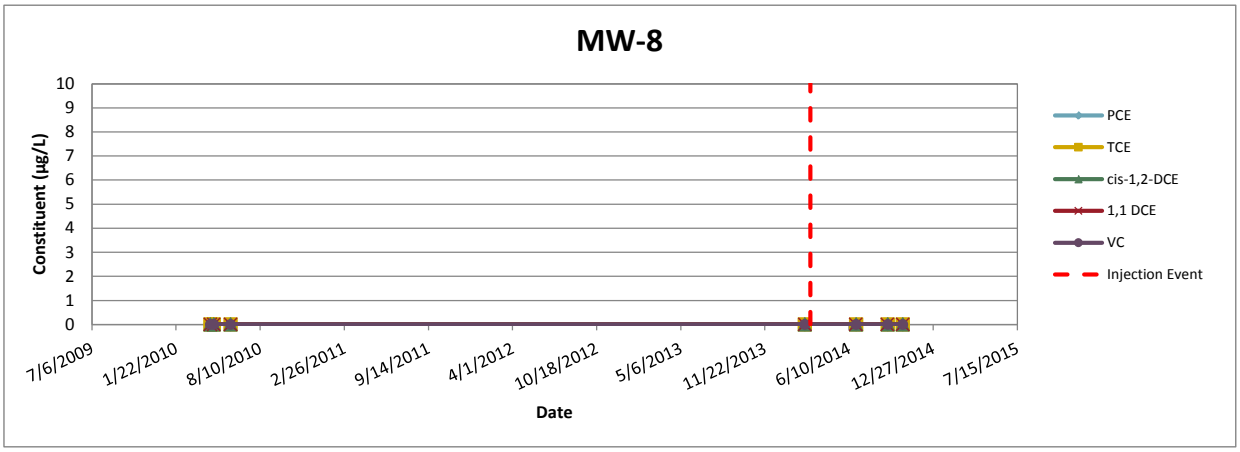
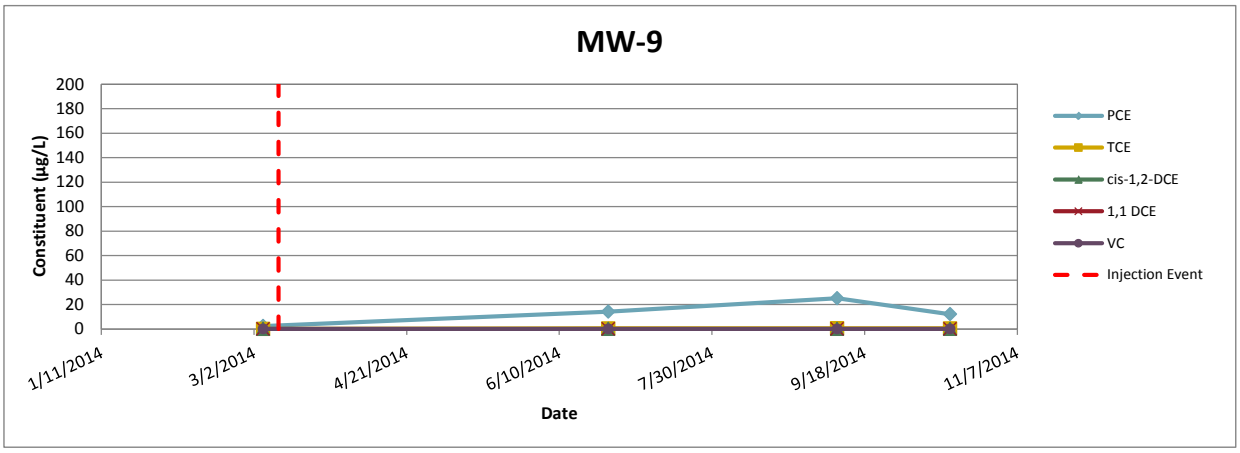


Analyte	SCL	4/14/2010	4/22/2010	6/1/2010	2/25/2014	6/26/2014	9/9/2014	10/16/2014
PCE	5	ND	ND	ND	ND	ND	ND	ND
TCE	5	ND	ND	ND	ND	ND	ND	ND
1,1-DCE	---	ND	ND	ND	ND	ND	ND	ND
cis-DCE	---	ND	ND	ND	ND	ND	ND	ND
VC	---	ND	ND	ND	ND	ND	ND	ND



Analyte	SCL	4/14/2010	4/22/2010	6/1/2010	2/25/2014	6/27/2014	9/10/2014	10/16/2014
PCE	5	ND	ND	ND	ND	ND	ND	ND
TCE	5	ND	ND	ND	ND	ND	ND	ND
1,1-DCE	---	ND	ND	ND	ND	ND	ND	ND
cis-DCE	---	ND	ND	ND	ND	ND	ND	ND
VC	---	ND	ND	ND	ND	ND	ND	ND

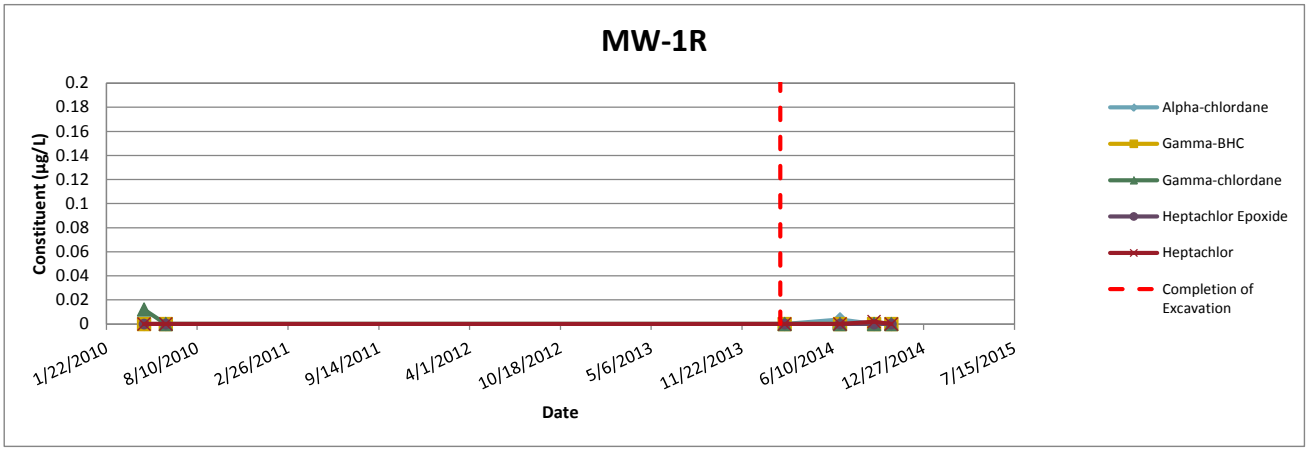
Attachment 5
Data Trend Charts
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland



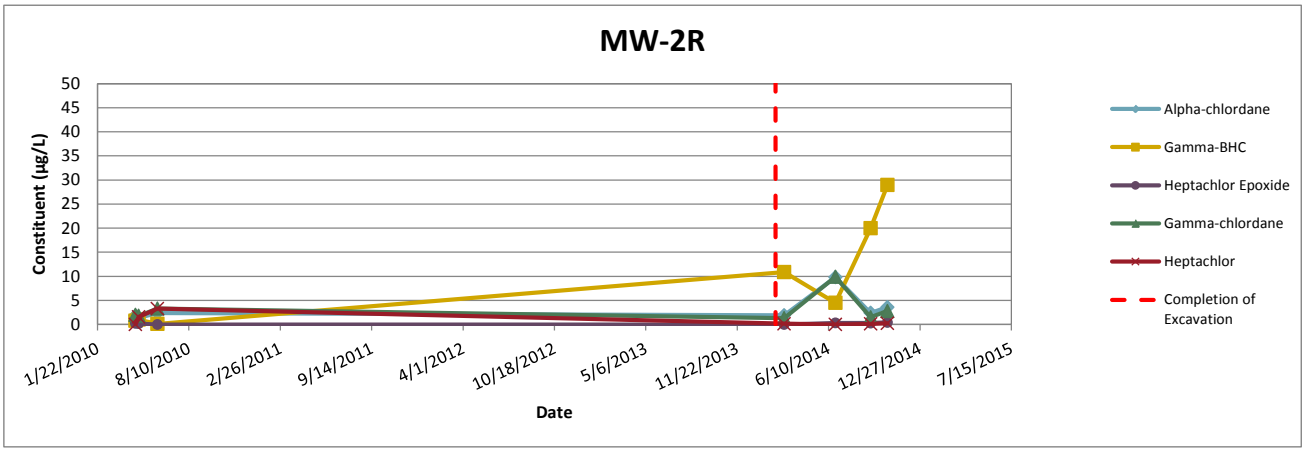
Analyte	SCL	3/5/2014	6/26/2014	9/9/2014	10/16/2014
PCE	5	2.4	**14**	**25**	**12**
TCE	5	ND	0.4 J	0.5 J	0.4 J
1,1-DCE	---	ND	ND	ND	ND
cis-DCE	---	ND	ND	ND	ND
VC	---	ND	ND	ND	ND

Attachment 5
Data Trend Charts
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland

Pesticides

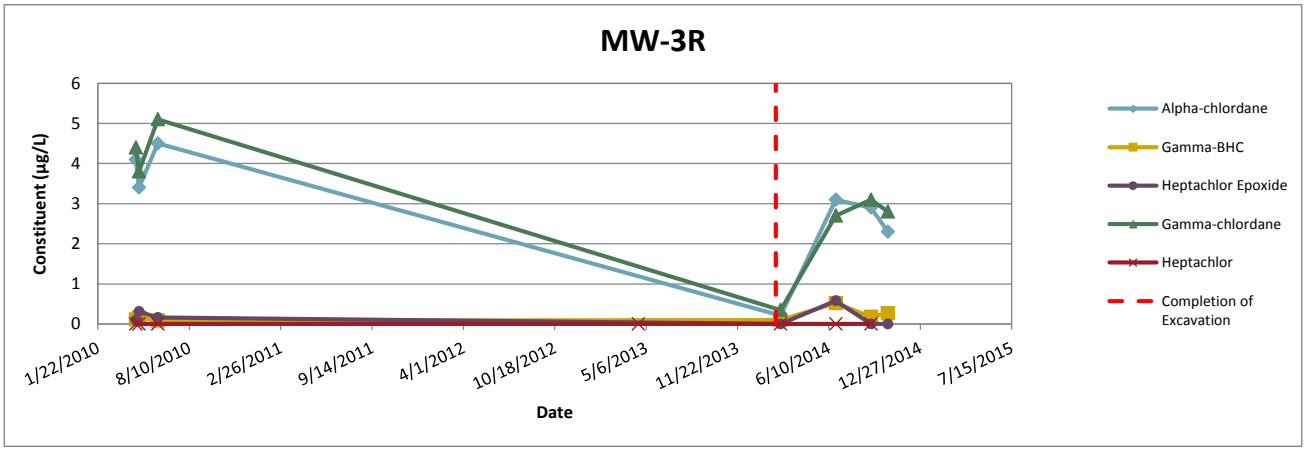


Analyte	SCL	4/15/2010	6/2/2010	2/24/2014	6/26/2014	9/9/2014	10/17/2014
Alpha-chlordane	2	ND	ND	ND	0.0038 J	ND	ND
Gamma-BHC	0.2	ND	ND	ND	ND	ND	ND
Gamma-chlordane	2	0.012 JP	ND	ND	ND	ND	ND
Heptachlor	0.4	ND	ND	ND	ND	0.0019 J	ND
Heptachlor Epoxide	0.2	ND	ND	ND	ND	ND	ND

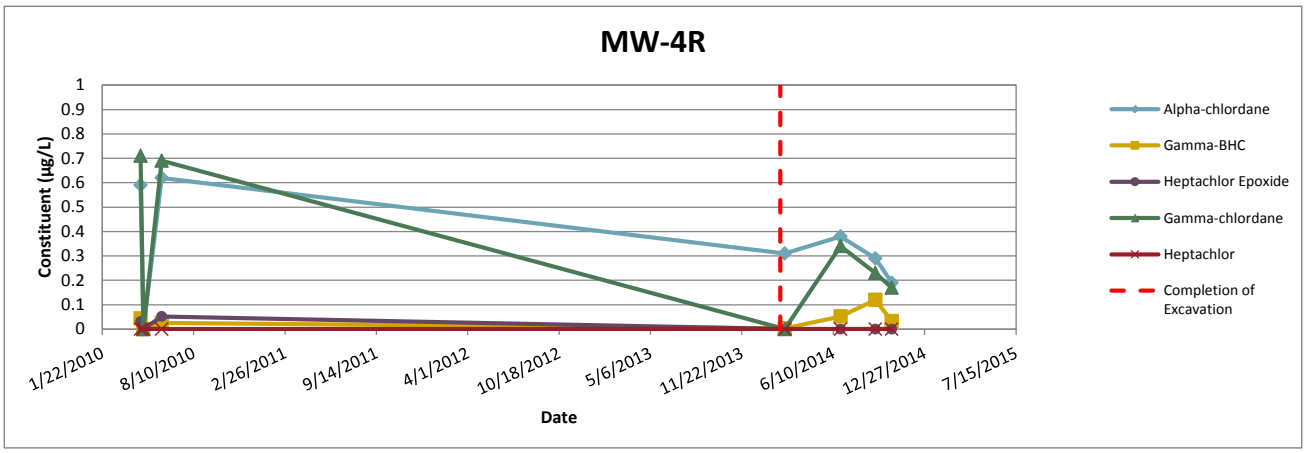


Analyte	SCL	4/15/2010	4/22/2010	6/2/2010	3/5/2014	6/25/2014	9/10/2014	10/17/2014
Alpha-chlordane	2	1.8 P	1.4 J	**2.4 P**	1.9 J	**9.8 J**	**2.4**	**3.6**
Gamma-BHC	0.2	**0.8**	**1.0 J**	0.13 P	**10.9**	**4.5 J**	**20**	**29**
Gamma-chlordane	2	**2.0 P**	1.8 J	**3.3**	1.3 J	**9.9 J**	1.5	**2.8**
Heptachlor	0.4	ND	**1.6 J**	**3.3 P**	0.16 J	ND	0.13	0.22
Heptachlor Epoxide	0.2	**0.23 P**	0.20 J	ND	ND	**0.32 J**	**0.3**	**0.41**

Attachment 5
Data Trend Charts
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland



Analyte	SCL	4/15/2010	4/22/2010	6/2/2010	2/24/2014	6/25/2014	9/10/2014	10/17/2014
Alpha-chlordane	2	**4.1**	**3.4**	**4.5 H**	0.21	**3.1**	**2.9**	**2.3**
Gamma-BHC	0.2	0.11	0.16	0.082 JH	0.098 J	**0.52**	0.18	**0.27**
Gamma-chlordane	2	**4.4**	**3.8**	**5.1 H**	0.35	**2.7**	**3.1**	**2.8**
Heptachlor	0.4	ND	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	0.2	0.097 P	**0.31 P**	0.16 H	ND	**0.58**	ND	ND



Analyte	SCL	4/16/2010	4/22/2010	6/1/2010	2/24/2014	6/26/2014	9/10/2014	10/16/2014
Alpha-chlordane	2	0.59	ND	0.62 J	0.31	0.38 J	0.29	0.19
Gamma-BHC	0.2	0.044	ND	0.025 J	0.034 J	0.052 J	0.12	0.033
Gamma-chlordane	2	0.71	ND	0.69 J	ND	0.34 J	0.23	0.17
Heptachlor	0.4	ND	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	0.2	0.031	ND	0.052 J	ND	ND	ND	ND

Attachment 5
Data Trend Charts
FGGM 13 Former Pesticide Shop, Building 6621
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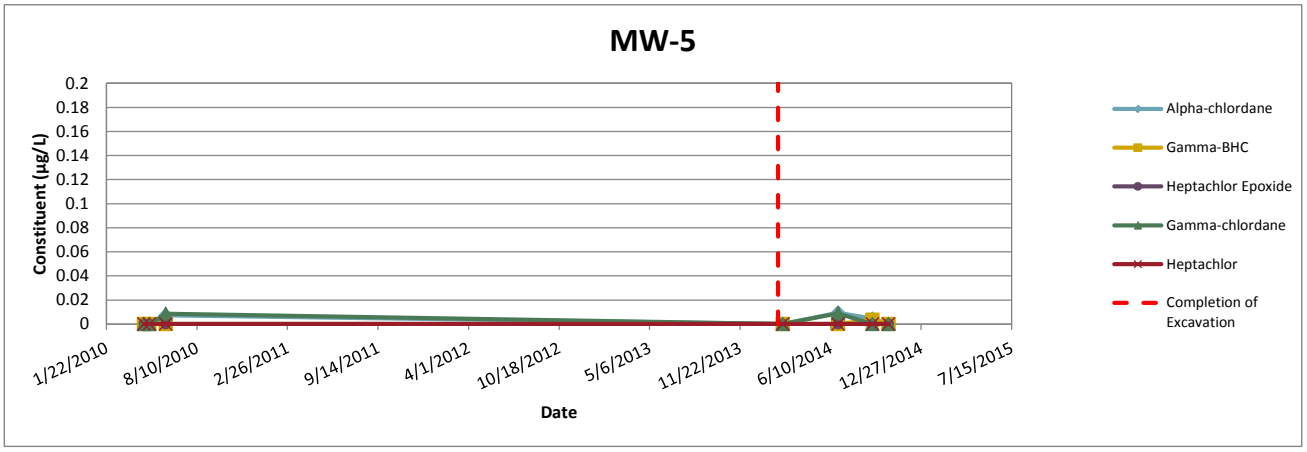
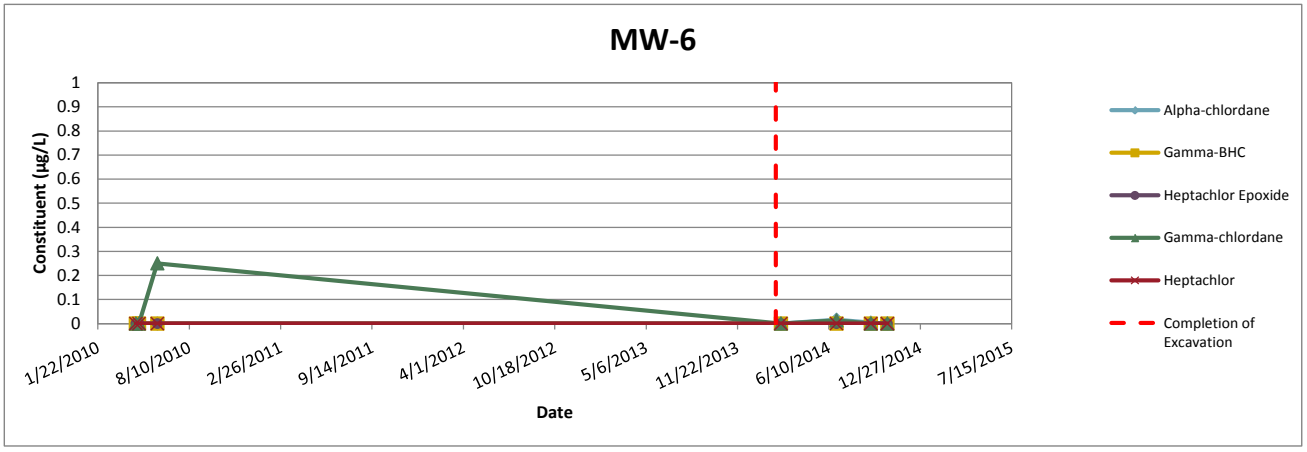
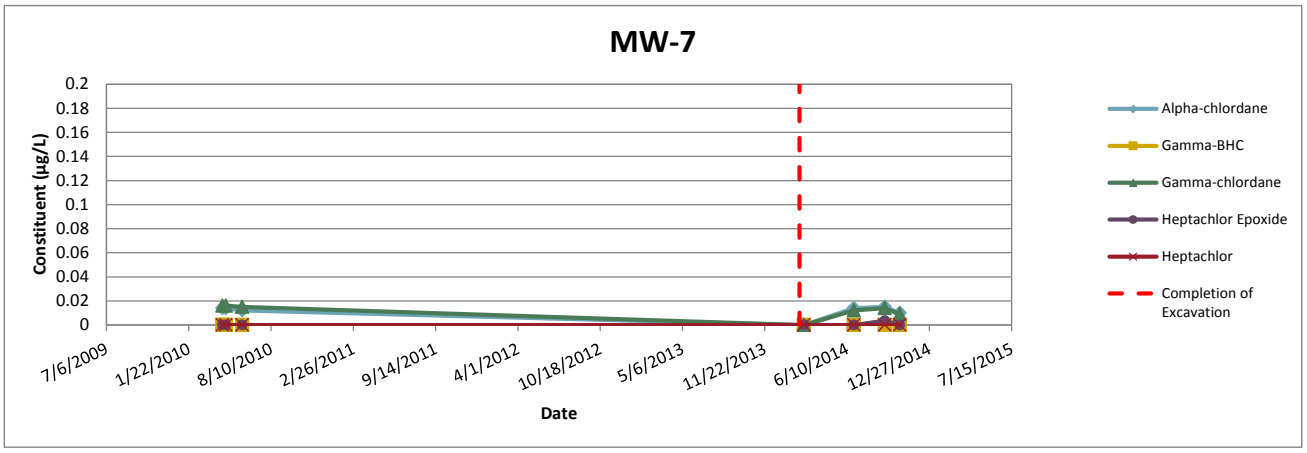


Analyte	SCL	4/15/2010	4/27/2010	6/2/2010	2/24/2014	6/26/2014	9/10/2014	10/16/2014
Alpha-chlordane	2	ND	ND	0.0073 J	ND	0.0095	0.0045 J	ND
Gamma-BHC	0.2	ND	ND	ND	ND	ND	0.0035 J	ND
Gamma-chlordane	2	ND	ND	0.0085 JP	ND	0.0089 J	ND	ND
Heptachlor	0.4	ND	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	0.2	ND	ND	ND	ND	ND	ND	ND

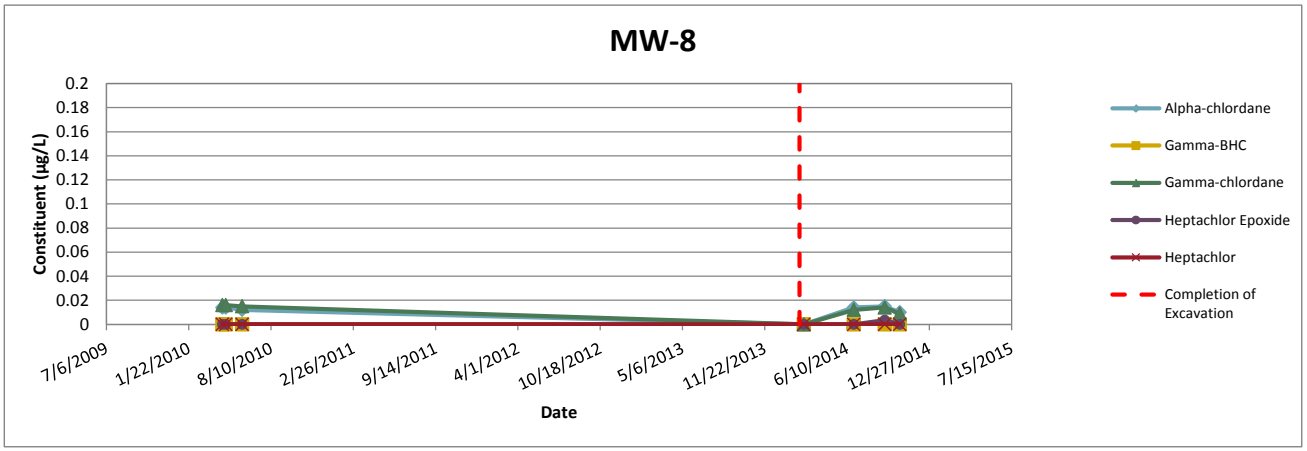


Analyte	SCL	4/15/2010	4/22/2010	6/1/2010	2/25/2014	6/26/2014	9/9/2014	10/16/2014
Alpha-chlordane	2	ND	ND	ND	ND	0.016	0.0035 J	ND
Gamma-BHC	0.2	ND	ND	ND	ND	ND	ND	ND
Gamma-chlordane	2	ND	ND	0.25 P	ND	0.013	ND	ND
Heptachlor	0.4	ND	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	0.2	ND	ND	ND	ND	ND	ND	ND

Attachment 5
Data Trend Charts
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland

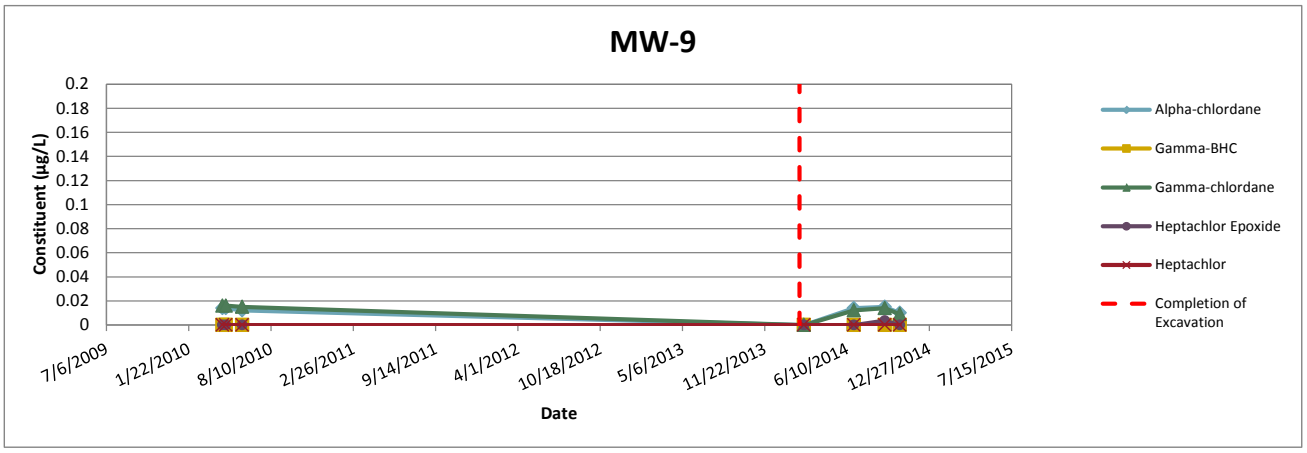


Analyte	SCL	4/14/2010	4/22/2010	6/1/2010	2/25/2014	6/26/2014	9/9/2014	10/16/2014
Alpha-chlordane	2	0.014 J	0.014 J	0.012 J	ND	0.014	0.015	0.01
Gamma-BHC	0.2	ND	ND	ND	ND	ND	ND	ND
Gamma-chlordane	2	0.016 JP	0.016 J	0.015 J	ND	0.012	0.014	0.0089
Heptachlor	0.4	ND	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	0.2	ND	ND	ND	ND	ND	0.0036 J	ND



Analyte	SCL	4/14/2010	4/22/2010	6/1/2010	2/25/2014	6/27/2014	9/10/2014	10/16/2014
Alpha-chlordane	2	0.013 J	0.0073 J	0.0076 J	ND	0.0058 J	0.021	0.015
Gamma-BHC	0.2	0.012 J	0.0092 J	0.12 J	ND	0.02	0.014	0.017
Gamma-chlordane	2	0.013 J	0.0077 J	0.37 J	ND	0.011	ND	0.014
Heptachlor	0.4	ND	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	0.2	0.0032 J	ND	ND	ND	0.0019 J	0.0055 J	0.0039

Attachment 5
Data Trend Charts
FGGM 13 Former Pesticide Shop, Building 6621
Fort George G. Meade, Maryland



Analyte	SCL	3/5/2014	6/26/2014	9/9/2014	10/16/2014
Alpha-chlordane	2	0.14 J	0.34	0.77	0.48
Gamma-BHC	0.2	0.021 J	0.11	0.097	0.067
Gamma-chlordane	2	0.12 J	0.27	0.54	0.43
Heptachlor	0.4	ND	ND	0.0066 J	ND
Heptachlor Epoxide	0.2	ND	0.046	ND	0.031

Notes:

1. Concentrations exceeding the applicable screening criterion are boldfaced and shaded.
2. Concentrations below the detection limit are represented graphically as zero.
3. All concentrations are presented in microgram per liter.
4. Sampling was conducted using low flow sample methodologies (4/14/10 - 4/16/10) and hydrasleeve samplers (4/22/10) for comparison purposes.

1,1-DCE - 1,1,-Dichloroethene

cis-1,2-DCE - cis-1,2,-Dichloroethene

PCE - Tetrachlorethene

TCE - Trichlorethene

VC - Vinyl Chloride

H - Sample analyzed outside of holding time.

J - Indicates an estimated result. Result is less than laboratory reporting limits.

ND - Analyte was not detected above reporting limits.

P - The relative percent difference between two gas chromatography columns exceeded 40%.