Harmon Environmental, PA

615 Bruce Thomas Road
Monroe, North Carolina 28112

Phone and Fax: (704) 764-5694
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August 5, 2016

Ms. Carolyn Minnich
Brownfields Project Manager
Division of Waste Management
North Carolina Department of Environmental Quality
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

Re: Summary of Additional Assessment Activities
Former Reliable Buff Facility
226 N. Bivens Road, Monroe, North Carolina
Brownfields Project No. 19082-15-090
Project No. 758-02

Dear Ms. Minnich:

Harmon Environmental, PA on behalf of Bloom Industrial, LLC respectfully submits for your review the results of the additional assessment activities conducted at the Former Reliable Buff facility located at 226 N. Bivens Road in Monroe, North Carolina. This scope of services was performed in general accordance with the May 2016 Work Plan as approved in your May 10, 2016 email. Figure 1 depicts the location of the site on an excerpt of a United States Geologic Survey (USGS) 7.5 minute quadrangle topographic map of the region. The latitude and longitude of the site is approximately N34.985847, W80.485428.

Assessment Activities

In accordance with the approved work plan, on June 9, 2016 Harmon Environmental, PA retained Geologic Exploration, Inc., to advance three Type II monitor wells at the approximate locations depicted on Figure 2. These three wells were advanced using air rotary drilling technology to depths ranging from 23.5 feet to 42.5 feet. As advanced, drill cuttings were contained on plastic sheeting pending collection and analysis of characterization samples for disposal. Well Construction Records for these three wells are presented in Attachment A. As indicated in these drilling logs, each of the three wells were installed into native argillite. Monitor well MW-1 was advanced to a termination depth of 42.5 feet and completed with 2-inch diameter Schedule 40 flush threaded PVC casing and 35 feet of manufactured screen. Monitor well MW-2 was advanced to a termination depth of 23.5 feet and completed with 2-inch diameter Schedule 40 flush threaded PVC casing and 18.5 feet of manufactured screen. Monitor well MW-3 was advanced to a termination depth of 26 feet below grade and completed with 2-inch diameter Schedule 40 flush threaded PVC casing and 20 feet of manufactured screen. The screen lengths utilized for each well were designed in an effort to intercept the water table surface. Each of the three monitor wells were constructed in accordance with North Carolina Administrative Code, Title 15A, Subchapter 2C (15A NCAC 2C) and finished

with manhole type flush covers. The well construction information is summarized on Table 1. Following construction of the wells, each well was developed to the fullest extent practicable by GEX Inc. personnel.

During the advancement of monitor well MW-1, Harmon Environmental, PA collected a soil sample from a depth of 0-2 feet in monitor well MW-1. This sample was collected using hand auger technology. As collected a representative aliquot of the sample was contained in a zipper sealed bag for visual description and field screening using a Multi-Rae® Photoionizing Detector calibrated to an isobutylene standard. A second aliquot was placed into glassware provided by the analyzing laboratory and stored in a cooler on ice pending delivery to the analyzing laboratory. Chain-of-Custody protocol was maintained throughout the sample delivery process. Upon receipt, this soil sample was analyzed for: VOCs in accordance with SW-846 Method 8260B; Semi-VOCs in accordance with SW-846 Method 8270D (BN/A); Antimony, Arsenic, Beryllium, Cadmium, Total Chromium, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Silver, Thallium and Zinc by ICP methods and; Hexavalent Chromium by SW-846 Method 7196A. The analytical results associated with this sample are presented in Table 2 and Figure 3. The analytical report, including a Level 2 QA/QC data package and Chain-of-Custody Records are presented in Attachment B.

On June 14, 2016, Harmon Environmental, PA personnel collected groundwater samples from the three monitor wells in general accordance with North Carolina Department of Environmental Quality (DEQ) accepted protocol. Prior to sampling the wells, the water level was measured at each location using an electronic depth to water indicator. Following collection of the water level measurements, the wells were purged until dry and sampled using disposal polyethylene bailers. Each sample was contained in glassware provided by the analyzing laboratory and stored on ice pending delivery to the laboratory for analysis. Chain-of-Custody protocol was be maintained throughout the sample delivery process. Upon receipt, the groundwater samples were be analyzed for: Volatile Organic Compounds (VOCs) in accordance with SW-846 Method 8260B; Semi-Volatile Organic Compounds (Semi-VOCs) in accordance with SW-8467 Method 8270D (BN/A) and; Antimony, Arsenic, Beryllium, Cadmium, Total Chromium, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Silver, Thallium and Zinc by ICP methods. Due to holding time issues, the wells were purged and sampled again on June 17, 2016 for hexavalent chromium. The analytical results associated with these samples are presented in Table 3 and Figure 5. The analytical results including a Level 2 QA/QC data package and Chain-of-Custody Records are presented in Attachment C.

Purge water collected during the sampling process was contained on site in a 55-gallon drum for subsequent sampling for appropriate disposal.

Following collection of the groundwater samples, the locations of each of the monitor wells was measured relative to on-site structures and the top of casing elevation was measured for each well relative to an arbitrary on-site benchmark of 100.00 feet established as the top of casing elevation for monitor well MW-3.

Figure 4 presents a shallow water table potentiometric map generated based on the water level measurements collected on June 14, 2016. As indicated in this figure the shallow horizontal component of groundwater flow is to the east-northeast with a calculated gradient of 0.005 feet per foot.

In accordance with the approved work plan, Harmon Environmental, PA personnel completed a *Brownfields Receptor Survey* for the subject facility. The results of this survey are presented in Attachment D.

The analytical results associated with soil sample MW-1(0-2) did not indicate the presence of volatile organic compounds. This data supports the information presented in the May 3, 2016 *Work Plan for Requested Additional Assessment Activities* which indicated that tetrachloroethylene was used in the dip tanks formerly located in the southeastern portion of the building and/or the drying room (shipping container) formerly located in the yard area outside the building. As indicated in the December 4, 2015 *Limited Soil Assessment Activities* report, the tetrachloroethylene concentrations detected in the soil samples appears to be limited to the shallow soil in the vicinity of the loading dock and in the vicinity of the southeastern corner of the facility. While historic soil samples from these locations indicated the presence of tetrachloroethyene at concentrations exceeding the *Protection of the Groundwater Standard* as established by the Inactive Hazardous Sites Branch of the DEQ in April 2016 the detected concentrations did not exceed the *Residential* or *Commercial/Industrial Standards.*

As indicated in Figure 5 and Table 3, tetrachloroethylene was detected in groundwater samples from monitor wells MW-2 and MW-3 at concentrations exceeding the North Carolina Groundwater Quality Standard as established in North Carolina Administrative Code, Title 15A, Subchapter 2L (15A NCAC 2L). Trichloroethylene was detected in the groundwater sample collected from monitor well MW-3 at a concentration exceeding the Groundwater Quality Standard. Manganese was detected in the samples collected from monitor wells MW-1, MW-2 and MW-3 at concentrations exceeding the Groundwater Quality Standard. Based on the manganese concentration detected, this constituent is thought to be naturally occurring.

Based on the historic soil analytical data from soil samples collected beneath the floor slab inside the southeastern portion of the building the tetrachloroethyene detected in the shallow groundwater outside the building does not appear to be a vapor intrusion risk.

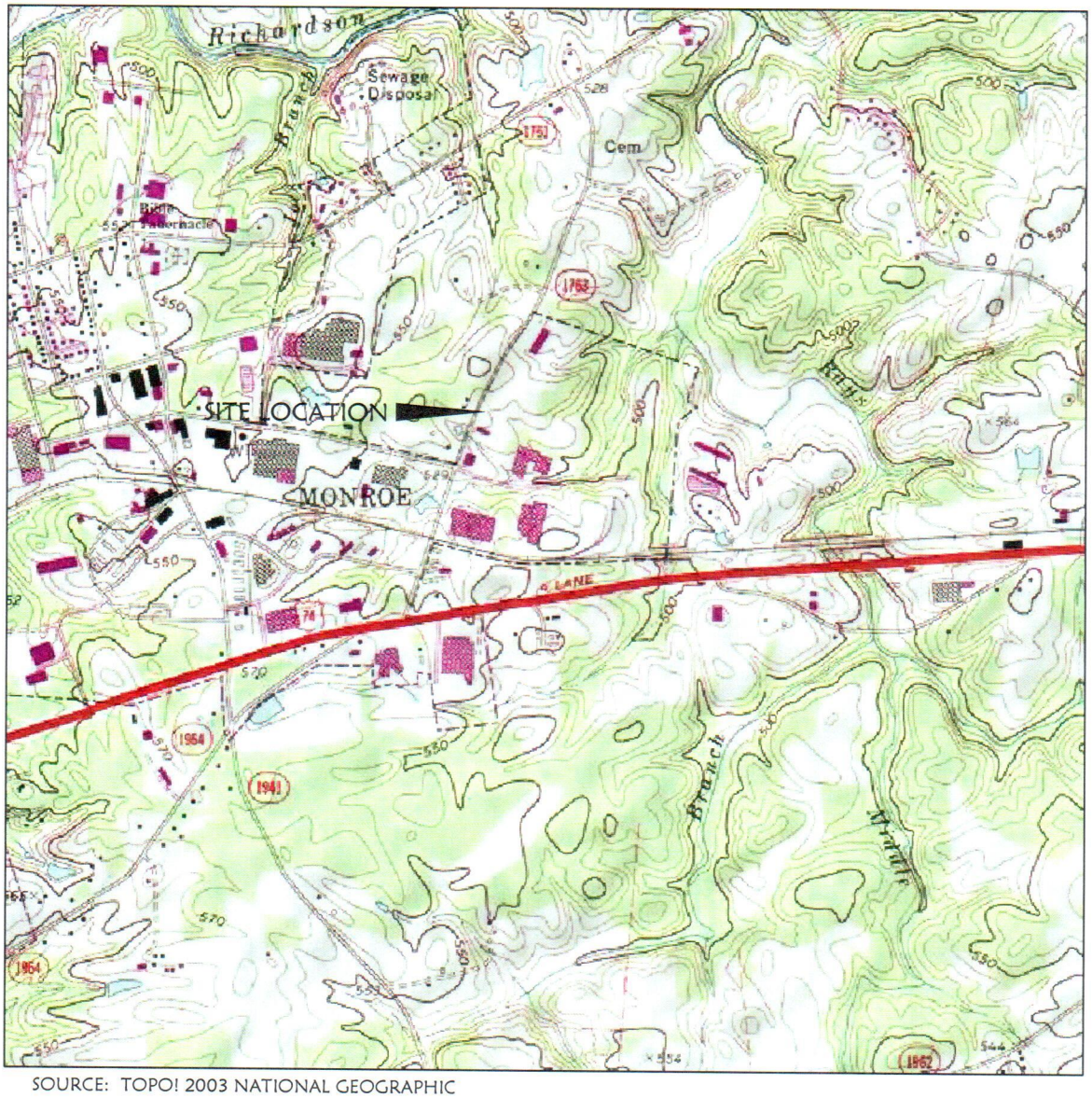
Please call or email if you have any questions or require any additional information.

Sincerely,
Harmon Environmental, PA

Richard L. Harmon, P.G.
President/Principal Hydrogeologist

Attachments

Figures



SOURCE: TOPO! 2003 NATIONAL GEOGRAPHIC

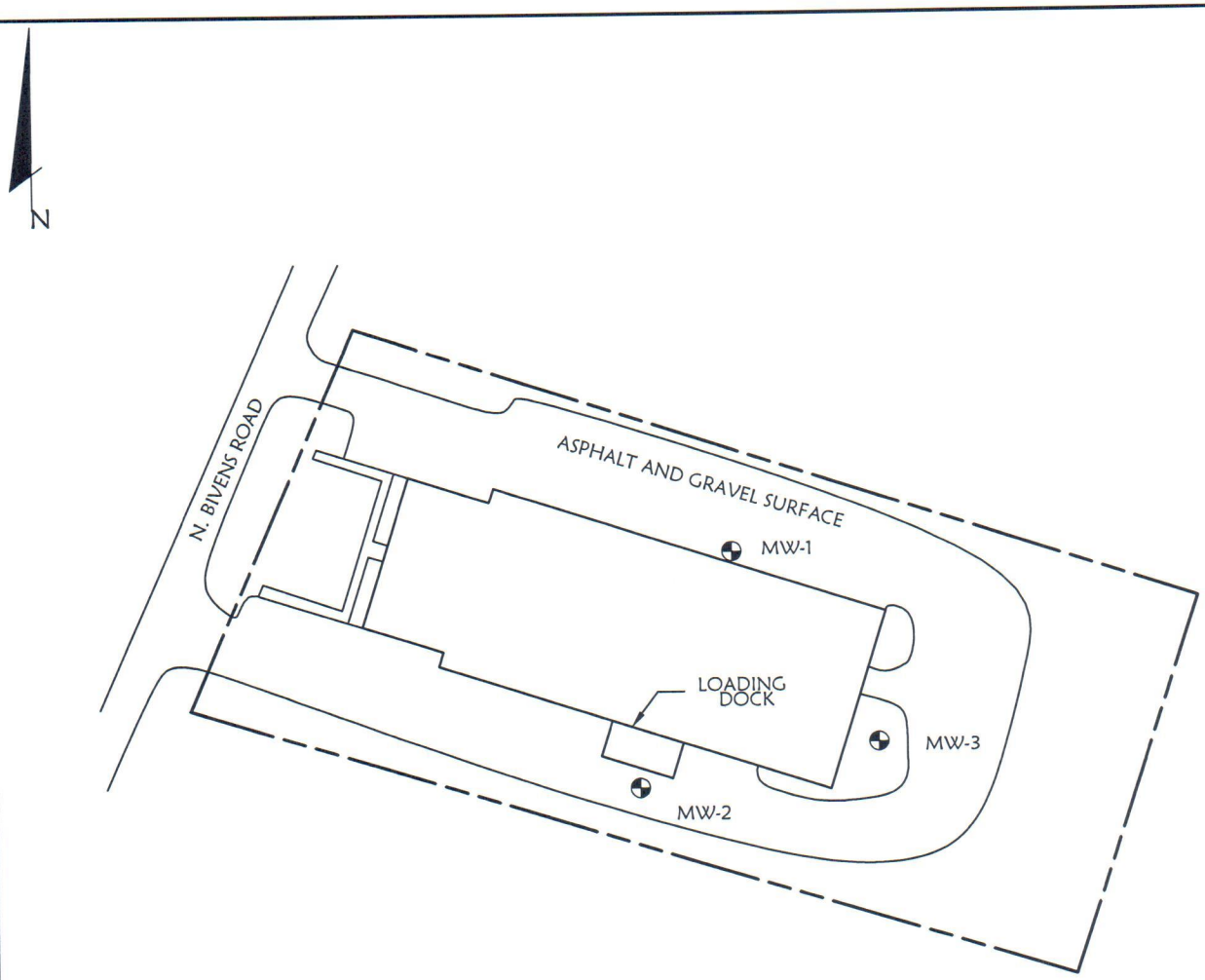
APPROXIMATE SCALE IN FEET

0 2000 4000

HARMON ENVIRONMENTAL, PA
615 BRUCE THOMAS ROAD
MONROE, NORTH CAROLINA
(704) 764-5694 PHONE & FAX

FIGURE 1
SITE LOCATION MAP
FORMER RELIABLE BUFF
226 N. BIVENS ROAD
MONROE, NORTH CAROLINA

758-02FIG1.DWG



LEGEND

APPROXIMATE LOCATION OF PROPERTY BOUNDARIES

APPROXIMATE LOCATION OF RESIDENCES

APPROXIMATE LOCATION OF PAVED AND GRAVEL SURFACES

APPROXIMATE LOCATION OF MONITOR WELL

APPROXIMATE SCALE IN FEET

0 100 200

SOURCE: UNION COUNTY GIS AND FIELD MEASUREMENTS

HARMON ENVIRONMENTAL, PA
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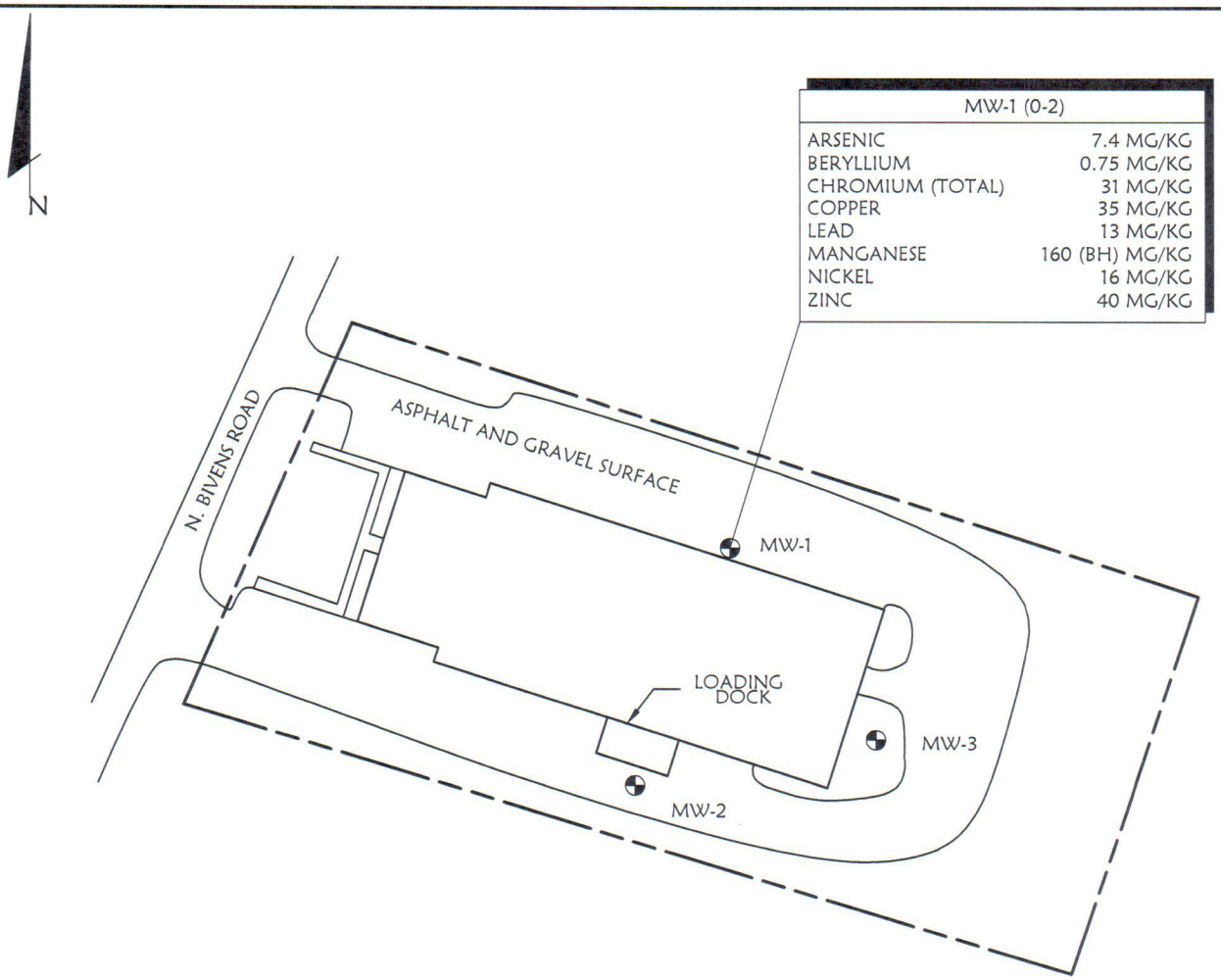
MONROE, NORTH CAROLINA 28112
(704) 764-5694 PHONE & FAX

FIGURE 2
SITE LAYOUT MAP
FORMER RELIABLE BUFF
226 N. BIVENS ROAD
MONROE, NORTH CAROLINA

7958-02FIG2.DWG



LEGEND

— — —	APPROXIMATE LOCATION OF PROPERTY BOUNDARIES
▭	APPROXIMATE LOCATION OF RESIDENCES
———	APPROXIMATE LOCATION OF PAVED AND GRAVEL SURFACES
⊕	APPROXIMATE LOCATION OF MONITOR WELL
(0-2)	APPROXIMATE DEPTH OF SOIL SAMPLE IN FEET BELOW GRADE
MG/KG	MILLIGRAMS PER KILOGRAM
(BH)	CONSTITUENT DETECTED IN METHOD BLANK AT A CONCENTRATION EXCEEDING ½ THE REPORTING LIMIT WITH THE DETECTED CONCENTRATION EXCEEDING 10X THE CONCENTRATION DETECTED IN THE BLANK

NOTES:

THE SOIL SAMPLE RESULTS PRESENTED IN THIS FIGURE WERE COLLECTED BY HARMON ENVIRONMENTAL, PA PERSONNEL ON JUNE 9, 2016, FROM THE APPROXIMATE DEPTHS INDICATED AND ANALYZED BY PRISM LABORATORIES, INC. FOR VOLATILE ORGANIC COMPOUNDS BY SW-846 METHOD 8015B; SEMI-VOLATILE ORGANIC COMPOUNDS BY SW-856 METHOD 827 BN/A AND FOR An, Ar, Br, Cd, Cr (TOTAL), Cu, Pb, Mn, Ni, Sb, Ag, Th, Zn, AND Cr (6+).

APPROXIMATE SCALE IN FEET

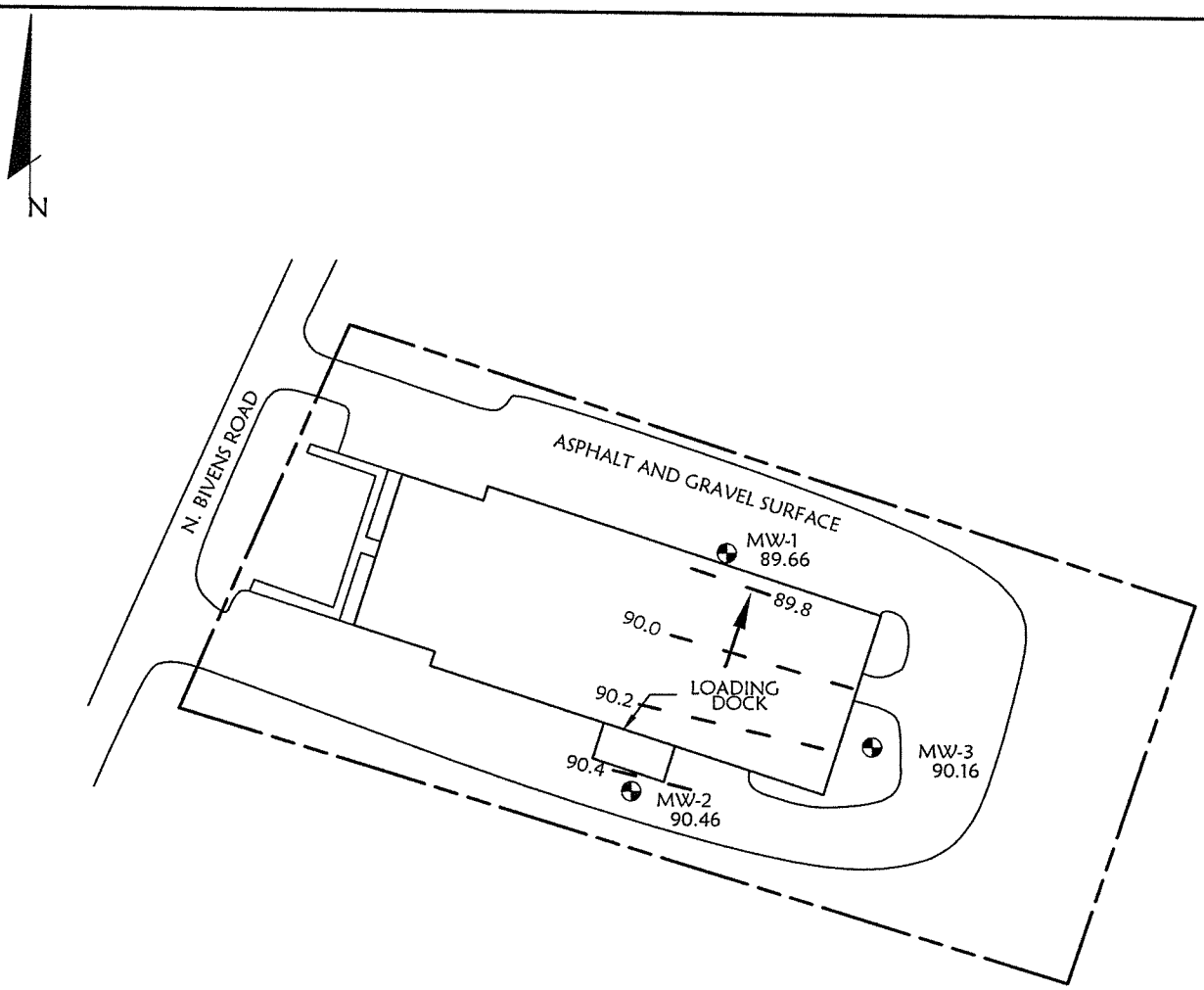
0 100 200

SOURCE: UNION COUNTY GIS AND FIELD MEASUREMENTS

HARMON ENVIRONMENTAL, PA
615 BRUCE THOMAS ROAD
MONROE, NORTH CAROLINA 28112
(704) 764-5694 PHONE & FAX

FIGURE 3
SITE LAYOUT MAP WITH SOIL SAMPLE RESULTS
FORMER RELIABLE BUFF
226 N. BIVENS ROAD
MONROE, NORTH CAROLINA

758-02FIG3.DWG



LEGEND

APPROXIMATE LOCATION OF PROPERTY BOUNDARIES

APPROXIMATE LOCATION OF RESIDENCES

APPROXIMATE LOCATION OF PAVED AND GRAVEL SURFACES

90.16 — GROUNDWATER ELEVATION AS MEASURED IN MONITOR WELL ON JUNE 14, 2016 RELATIVE TO ARBITRARY ON-SITE BENCHMARK

WATER TABLE POTENTIOMETRIC CONTOUR BASED ON WATER LEVELS MEASURED ON JUNE 14, 2016

CALCULATED DIRECTION OF SHALLOW GROUNDWATER FLOW BASED ON JUNE 14, 2016

NOTES:

THE GROUNDWATER CONTOURS PRESENTED HEREIN ARE BASED ON INTERPOLATION BETWEEN GROUNDWATER ELEVATIONS MEASURED IN THE ON-SITE MONITOR WELLS ON JUNE 14, 2016.

APPROXIMATE SCALE IN FEET

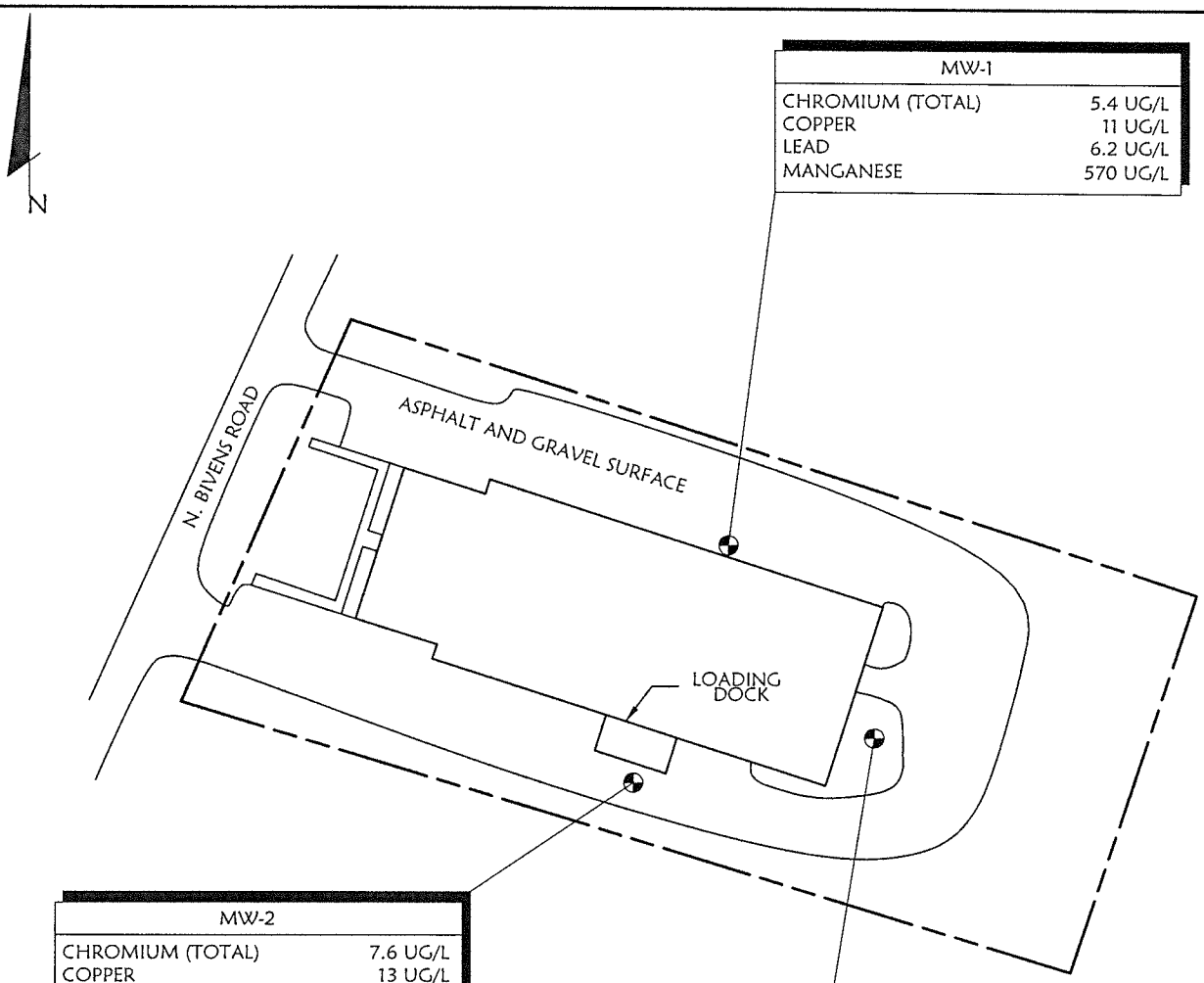
0 100 200

SOURCE: UNION COUNTY GIS AND FIELD MEASUREMENTS

HARMON ENVIRONMENTAL, PA
615 BRUCE THOMAS ROAD
MONROE, NORTH CAROLINA 28112
(704) 764-5694 PHONE & FAX

FIGURE 4
WATER TABLE POTENTIOMETRIC MAP
FORMER RELIABLE BUFF
226 N. BIVENS ROAD
MONROE, NORTH CAROLINA

758-02FIG4RBV.DWG



MW-1	
CHROMIUM (TOTAL)	5.4 UG/L
COPPER	11 UG/L
LEAD	6.2 UG/L
MANGANESE	570 UG/L

MW-2	
CHROMIUM (TOTAL)	7.6 UG/L
COPPER	13 UG/L
LEAD	7.9 UG/L
MANGANESE	270 UG/L
ZINC	78 UG/L
TETRACHLOROETHYLENE	7.3 UG/L

MW-3	
CHROMIUM (TOTAL)	7.4 UG/L
LEAD	7.0 UG/L
MANGANESE	110 UG/L
CIS-1,2-DICHLOROETHENE	4.4 UG/L
TETRACHLOROETHYLENE	750 UG/L
TRICHLOROETHYLENE	7.2 UG/L

NOTES:

THE GROUNDWATER SAMPLES PRESENTED IN THIS FIGURE WERE COLLECTED BY HARMON ENVIRONMENTAL, PA PERSONNEL ON JUNE 14, 2016 AND ANALYZED BY PRISM LABORATORIES, INC. FOR VOLATILE ORGANIC COMPOUNDS BY SW-846 METHOD 8015B; SEMI-VOLATILE ORGANIC COMPOUNDS BY SW-846 METHOD 8260 BN/A AND ANTIMONY, ARSENIC, BERYLLIUM, CADMIUM, TOTAL CHROMIUM, COPPER, LEAD, MANGANESE, MERCURY, NICKEL, SELENIUM, SILVER, THALLIUM AND ZINC BY ICP METHODS. ON JUNE 17, 2017 SAMPLES WERE COLLECTED FROM THE THREE WELLS FOR HEXAVALENT CHROMIUM BY SW-846 METHOD 7196A.

LEGEND

— — —	APPROXIMATE LOCATION OF PROPERTY BOUNDARIES
▭	APPROXIMATE LOCATION OF RESIDENCES
———	APPROXIMATE LOCATION OF PAVED AND GRAVEL SURFACES
UG/L	MICROGRAMS PER LITER
⊕	APPROXIMATE LOCATION OF MONITOR WELL

APPROXIMATE SCALE IN FEET

0 100 200

SOURCE: UNION COUNTY GIS AND FIELD MEASUREMENTS

HARMON ENVIRONMENTAL, PA
615 BRUCE THOMAS ROAD
MONROE, NORTH CAROLINA 28112
(704) 764-5694 PHONE & FAX

FIGURE 5
SITE LAYOUT MAP WITH GROUNDWATER ANALYTICAL RESULTS
FORMER RELIABLE BUFF
226 N. BIVENS ROAD
MONROE, NORTH CAROLINA

758-02FIG5.DWG

Tables

Table 1
Monitor Well Information
Former Reliable Buff Facilty
226 N. Bivens Road, Monroe, North Carolina
Project No. 758-02

Well No.	Well Depth (ft)	Screen Interval (ft)	TOC Elevation (Arbitrary)	Ground Elevation (Arbitary)	Water Level (ft)	Groundwater Elevation (Arbitrary)
MW-1	42.5	7.5-42.5	100.08	100.03	10.42	89.66
MW-2	23.5	5.0-23.5	95.65	95.88	5.19	90.46
MW-3	26.0	6.0-25.0	100.00	100.33	9.84	90.16

Notes: Water levels measured by Harmon Environmental, PA personnel on June 14, 2016
Elevations based on an arbitary on-site datum established as 100.00 feet
(ft) feet

Table 2
Soil Sample Analytical Results
Former Reliable Buff Facility
226 N. Bivens Road, Monroe, North Carolina
Project No. 758-02

Constituent (mg/kg)	Protection of Groundwater Standard	Residential Soil Remediation Goal	Industrial/ Commercial Soil Remediation Goal	MW-1 (0-2)
aresenic	5.8	0.68	3.0	7.4
beryllium	63	32	460	0.75
chromium	360,000	24,000	100,000	31
copper	700	620	9,400	35.0
lead	270	400	800	13
manganese	NS	360	5,200	160(BH)
nickel	130	300	4,400	16
zinc	1,200	4,600	70,000	40

Notes: Only the constituents detected in the samples are presented in this table. For complete analytical results, please refer to the analytical laboratory report.
The soil samples presented in this table were collected on June 14, 2016 by Harmon Environmental, PA personnel and analyzed by Prism Laboratories, Inc.
mg/kg = milligrams per kilogram
Protection of Groundwater Standard - Inactive Hazardous Sites Branch Preliminary Soil Remediation Goals, April 2016
Residential Soil Remediation Goals - Inactive Hazardous Sites Branch Preliminary Soil Remediation Goals, April 2016
Industrial/Commercial Soil Remediation Goals - Inactive Hazardous Sites Branch Soil Remediation Goals, April 2016
(0-2) approximate depth of soil sample in feet below grade
(BH) - constituent detected in method blank at a concentration greater than one half of the reporting limit and the sample concentration was 10 times the concentration detected in the method blank.

Table 3
Groundwater Analytical Results
Former Reliable Buff Facility
226 N. Bivens Road, Monroe, North Carolina
Project No. 758-02

Constituent (ug/L)	NCAC 2L Standard	MW-1	MW-2	MW-3
chromium (total)	10	5.4	7.6	7.4
copper	1,000	11	13	<10
lead	15	6.2	7.9	7.0
manganese	50	570	270	110
zinc	1,000	<30	78	<30
cis-1,2-dichloroethylene	70	<0.50	<0.50	4.4
tetrachloroethylene	0.7	<0.50	7.3	750
trichloroethylene	3	<0.50	<0.50	7.2

Notes: Only the constituents detected in the samples are presented in this table. For complete analytical results, please refer to the analytical laboratory report.
The groundwater samples presented in this table were collected on June 14, 2016 by Harmon Environmental, PA personnel and analyzed by Prism Laboratories, Inc.
ug/L = micrograms per liter
NCAC 2L Standards = North Carolina Administrative Code, Title 15A, Subchapter 2L.

Attachment A
Well Construction Records

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

JOHNNY BURR

Well Contractor Name

A - 3098

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☑ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 06/10/16 **Well ID#** MW-1

5a. Well Location:

RELIABLE BUFF

Facility/Owner Name

Facility ID# (if applicable)

226 NORTH BIVENS ROAD MONROE 28110

Physical Address, City, and Zip

UNION

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34° 98' 59.68" N 80° 48' 48.54" W

6. Is (are) the well(s): ☑ Permanent or ☐ Temporary

7. Is this a repair to an existing well: ☐ Yes or ☑ No

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 42.5 (ft.)

For multiple wells list all depths if different (example: 3@200' and 2@100')

10. Static water level below top of casing: 9.0 (ft.)

If water level is above casing, use "+"

11. Borehole diameter: 4.0 (in.)

12. Well construction method: AIR

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	7.5 ft.	2.0 in.	SCH 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
7.5 ft.	42.5 ft.	2.0 in.	.010	SCH 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	3.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
5.0 ft.	42.5 ft.	20-40	FINE SILICA SAND
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	0.5 ft.	ASPHALT
0.5 ft.	1.0 ft.	GRAVEL
1.0 ft.	13.0 ft.	ORANGE/BROWN MUD
13.0 ft.	42.5 ft.	GRAY ROCK
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 3.0 TO 5.0 FEET

22. Certification:

Johnny Burr

Signature of Certified Well Contractor

06/14/16

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0106 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

JOHNNY BURR

Well Contractor Name

A - 3098

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☑ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 06/10/16 **Well ID#** MW-2

5a. Well Location:

RELIABLE BUFF

Facility/Owner Name

Facility ID# (if applicable)

226 NORTH BIVENS ROAD MONROE 28110

Physical Address, City, and Zip

UNION

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34° 98' 54.55" N 80° 48' 48.22" W

6. Is (are) the well(s): ☑ Permanent or ☐ Temporary

7. Is this a repair to an existing well: ☐ Yes or ☑ No

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 23.5 (ft.)

For multiple wells list all depths if different (example: 3@200' and 2@100')

10. Static water level below top of casing: 5.0 (ft.)

If water level is above casing, use "+"

11. Borehole diameter: 4.0 (in.)

12. Well construction method: AIR

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	5.0 ft.	2.0 in.	SCH 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
5.0 ft.	23.5 ft.	2.0 in.	.010	SCH 40	PVC
ft.	ft.	in			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	3.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
4.0 ft.	23.5 ft.	20-40	FINE SILICA SAND
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	0.5 ft.	ASPHALT
0.5 ft.	1.0 ft.	GRAVEL
1.0 ft.	13.0 ft.	TAN/ORANGE MUD
13.0 ft.	20.0 ft.	TAN/BROWN MUD
20.0 ft.	23.5 ft.	GRAY ROCK
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 3.0 TO 4.0 FEET

22. Certification:

Johnny Burr

Signature of Certified Well Contractor

06/14/16

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

JOHNNY BURR

Well Contractor Name

A - 3098

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☑ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 06/10/16 **Well ID#** MW-3

5a. Well Location:

RELIABLE BUFF

Facility/Owner Name

Facility ID# (if applicable)

226 NORTH BIVENS ROAD MONROE 28110

Physical Address, City, and Zip

UNION

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34° 98' 50.64" N 80° 48' 48.32" W

6. Is (are) the well(s): ☑ Permanent or ☐ Temporary

7. Is this a repair to an existing well: ☐ Yes or ☑ No

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 26.0 (ft.)

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 9.0 (ft.)

If water level is above casing, use " - "

11. Borehole diameter: 4.0 (in.)

12. Well construction method: AIR

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	6.0 ft.	2.0 in.	SCH 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
6.0 ft.	26.0 ft.	2.0 in.	.010	SCH 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	4.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
5.0 ft.	26.0 ft.	20-40	FINE SILICA SAND
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	0.5 ft.	BROWN/BLACK TOPSOIL
0.5 ft.	14.0 ft.	TAN/ORANGE MUD
14.0 ft.	27.0 ft.	TAN MUD
27.0 ft.	30.0 ft.	GRAY ROCK
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 4.0 TO 5.0 FEET

22. Certification:

Johnny Burr 06/14/16

Signature of Certified Well Contractor — Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

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Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

Attachment B
Soil Sample Analytical Results and
Chain-of-Custody Records

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

NC Certification No. 402
NC Drinking Water Cert No. 37735
SC Certification No. 99012
FL NELAC Cert No. E87519
VA NELAC Cert No. 460211

Case Narrative

06/24/2016

Harmon Environmental, PA
Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Reliable Buff Facility

Lab Submittal Date: 06/14/2016
Prism Work Order: 6060246

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Narrative Notes:

The sample for Hexavalent Chromium was subcontracted to AES, Inc.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

C. Rusmisell

Cara C. Rusmisell
Project Manager

C. Rusmisell

Reviewed By Cara C. Rusmisell
Project Manager

Data Qualifiers Key Reference:

BH	MB greater than one half of the RL, but the sample concentrations are greater than 10x the MB.
D	RPD value outside of the control limits.
M	Matrix spike outside of the control limits.
MC	Sample concentration too high for recovery evaluation.
MI	Matrix spike outside of the control limits. Matrix interference suspected.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Sample Receipt Summary

06/24/2016

Prism Work Order: 6060246

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
MW-1 (0-2)	6060246-01	Solid	06/09/16	06/14/16

Samples were received in good condition at 4.5 degrees C unless otherwise noted.

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PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

06/24/2016

Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Reliable Buff Facility

Sample Matrix: Solid

Client Sample ID: MW-1 (0-2)
Prism Sample ID: 6060246-01
Prism Work Order: 6060246
Time Collected: 06/09/16 09:45
Time Submitted: 06/14/16 11:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
% Solids	**78.7**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**6/15/16 15:58**	**JLB**	**P6F0314**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.41	0.064	1	*8270D	6/17/16 20:47	JMV	P6F0318
1,2-Dichlorobenzene	BRL	mg/kg dry	0.41	0.062	1	*8270D	6/17/16 20:47	JMV	P6F0318
1,3-Dichlorobenzene	BRL	mg/kg dry	0.41	0.058	1	*8270D	6/17/16 20:47	JMV	P6F0318
1,4-Dichlorobenzene	BRL	mg/kg dry	0.41	0.060	1	*8270D	6/17/16 20:47	JMV	P6F0318
1-Methylnaphthalene	BRL	mg/kg dry	0.41	0.079	1	*8270D	6/17/16 20:47	JMV	P6F0318
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.41	0.077	1	*8270D	6/17/16 20:47	JMV	P6F0318
2,4-Dichlorophenol	BRL	mg/kg dry	0.41	0.079	1	*8270D	6/17/16 20:47	JMV	P6F0318
2,4-Dimethylphenol	BRL	mg/kg dry	0.41	0.063	1	*8270D	6/17/16 20:47	JMV	P6F0318
2,4-Dinitrophenol	BRL	mg/kg dry	0.41	0.057	1	*8270D	6/17/16 20:47	JMV	P6F0318
2,4-Dinitrotoluene	BRL	mg/kg dry	0.41	0.050	1	*8270D	6/17/16 20:47	JMV	P6F0318
2,6-Dinitrotoluene	BRL	mg/kg dry	0.41	0.055	1	*8270D	6/17/16 20:47	JMV	P6F0318
2-Chloronaphthalene	BRL	mg/kg dry	0.41	0.059	1	*8270D	6/17/16 20:47	JMV	P6F0318
2-Chlorophenol	BRL	mg/kg dry	0.41	0.058	1	*8270D	6/17/16 20:47	JMV	P6F0318
2-Methylnaphthalene	BRL	mg/kg dry	0.41	0.066	1	*8270D	6/17/16 20:47	JMV	P6F0318
2-Methylphenol	BRL	mg/kg dry	0.41	0.053	1	*8270D	6/17/16 20:47	JMV	P6F0318
2-Nitrophenol	BRL	mg/kg dry	0.41	0.075	1	*8270D	6/17/16 20:47	JMV	P6F0318
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.41	0.081	1	*8270D	6/17/16 20:47	JMV	P6F0318
3/4-Methylphenol	BRL	mg/kg dry	0.41	0.051	1	*8270D	6/17/16 20:47	JMV	P6F0318
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.41	0.062	1	*8270D	6/17/16 20:47	JMV	P6F0318
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.41	0.071	1	*8270D	6/17/16 20:47	JMV	P6F0318
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.41	0.058	1	*8270D	6/17/16 20:47	JMV	P6F0318
4-Chloroaniline	BRL	mg/kg dry	0.41	0.049	1	*8270D	6/17/16 20:47	JMV	P6F0318
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.41	0.053	1	*8270D	6/17/16 20:47	JMV	P6F0318
4-Nitrophenol	BRL	mg/kg dry	0.41	0.063	1	*8270D	6/17/16 20:47	JMV	P6F0318
Acenaphthene	BRL	mg/kg dry	0.41	0.056	1	*8270D	6/17/16 20:47	JMV	P6F0318
Acenaphthylene	BRL	mg/kg dry	0.41	0.059	1	*8270D	6/17/16 20:47	JMV	P6F0318
Anthracene	BRL	mg/kg dry	0.41	0.066	1	*8270D	6/17/16 20:47	JMV	P6F0318
Azobenzene	BRL	mg/kg dry	0.41	0.054	1	*8270D	6/17/16 20:47	JMV	P6F0318
Benzo(a)anthracene	BRL	mg/kg dry	0.41	0.054	1	*8270D	6/17/16 20:47	JMV	P6F0318
Benzo(a)pyrene	BRL	mg/kg dry	0.41	0.044	1	*8270D	6/17/16 20:47	JMV	P6F0318
Benzo(b)fluoranthene	BRL	mg/kg dry	0.41	0.048	1	*8270D	6/17/16 20:47	JMV	P6F0318
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.41	0.045	1	*8270D	6/17/16 20:47	JMV	P6F0318
Benzo(k)fluoranthene	BRL	mg/kg dry	0.41	0.054	1	*8270D	6/17/16 20:47	JMV	P6F0318
Benzoic Acid	BRL	mg/kg dry	0.41	0.035	1	*8270D	6/17/16 20:47	JMV	P6F0318
Benzyl alcohol	BRL	mg/kg dry	0.41	0.054	1	*8270D	6/17/16 20:47	JMV	P6F0318
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.41	0.071	1	*8270D	6/17/16 20:47	JMV	P6F0318
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	0.41	0.058	1	*8270D	6/17/16 20:47	JMV	P6F0318

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Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Reliable Buff Facility

Sample Matrix: Solid

Client Sample ID: MW-1 (0-2)
Prism Sample ID: 6060246-01
Prism Work Order: 6060246
Time Collected: 06/09/16 09:45
Time Submitted: 06/14/16 11:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.41	0.070	1	*8270D	6/17/16 20:47	JMV	P6F0318
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.41	0.061	1	*8270D	6/17/16 20:47	JMV	P6F0318
Butyl benzyl phthalate	BRL	mg/kg dry	0.41	0.058	1	*8270D	6/17/16 20:47	JMV	P6F0318
Chrysene	BRL	mg/kg dry	0.41	0.052	1	*8270D	6/17/16 20:47	JMV	P6F0318
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.41	0.050	1	*8270D	6/17/16 20:47	JMV	P6F0318
Dibenzofuran	BRL	mg/kg dry	0.41	0.062	1	*8270D	6/17/16 20:47	JMV	P6F0318
Diethyl phthalate	BRL	mg/kg dry	0.41	0.057	1	*8270D	6/17/16 20:47	JMV	P6F0318
Dimethyl phthalate	BRL	mg/kg dry	0.41	0.054	1	*8270D	6/17/16 20:47	JMV	P6F0318
Di-n-butyl phthalate	BRL	mg/kg dry	0.41	0.058	1	*8270D	6/17/16 20:47	JMV	P6F0318
Di-n-octyl phthalate	BRL	mg/kg dry	0.41	0.051	1	*8270D	6/17/16 20:47	JMV	P6F0318
Fluoranthene	BRL	mg/kg dry	0.41	0.052	1	*8270D	6/17/16 20:47	JMV	P6F0318
Fluorene	BRL	mg/kg dry	0.41	0.059	1	*8270D	6/17/16 20:47	JMV	P6F0318
Hexachlorobenzene	BRL	mg/kg dry	0.41	0.065	1	*8270D	6/17/16 20:47	JMV	P6F0318
Hexachlorobutadiene	BRL	mg/kg dry	0.41	0.074	1	*8270D	6/17/16 20:47	JMV	P6F0318
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.41	0.073	1	*8270D	6/17/16 20:47	JMV	P6F0318
Hexachloroethane	BRL	mg/kg dry	0.41	0.069	1	*8270D	6/17/16 20:47	JMV	P6F0318
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.41	0.047	1	*8270D	6/17/16 20:47	JMV	P6F0318
Isophorone	BRL	mg/kg dry	0.41	0.056	1	*8270D	6/17/16 20:47	JMV	P6F0318
Naphthalene	BRL	mg/kg dry	0.41	0.066	1	*8270D	6/17/16 20:47	JMV	P6F0318
Nitrobenzene	BRL	mg/kg dry	0.41	0.058	1	*8270D	6/17/16 20:47	JMV	P6F0318
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.41	0.065	1	*8270D	6/17/16 20:47	JMV	P6F0318
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.41	0.062	1	*8270D	6/17/16 20:47	JMV	P6F0318
Pentachlorophenol	BRL	mg/kg dry	0.41	0.049	1	*8270D	6/17/16 20:47	JMV	P6F0318
Phenanthrene	BRL	mg/kg dry	0.41	0.053	1	*8270D	6/17/16 20:47	JMV	P6F0318
Phenol	BRL	mg/kg dry	0.41	0.061	1	*8270D	6/17/16 20:47	JMV	P6F0318
Pyrene	BRL	mg/kg dry	0.41	0.054	1	*8270D	6/17/16 20:47	JMV	P6F0318

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*68 %*	*39-132*
2-Fluorobiphenyl	*61 %*	*44-115*
2-Fluorophenol	*64 %*	*35-115*
Nitrobenzene-d5	*57 %*	*37-122*
Phenol-d5	*64 %*	*34-121*
Terphenyl-d14	*73 %*	*54-127*

Total Metals

Mercury	BRL	mg/kg dry	0.025	0.0014	1	*7471B	6/22/16 12:01	JAB	P6F0431
Antimony	BRL	mg/kg dry	0.31	0.031	1	*6010D	6/21/16 3:21	BGM	P6F0375
Arsenic	**7.4**	**mg/kg dry**	**0.31**	**0.038**	**1**	***6010D**	**6/21/16 3:21**	**BGM**	**P6F0375**
Beryllium	**0.75**	**mg/kg dry**	**0.31**	**0.0069**	**1**	***6010D**	**6/21/16 3:21**	**BGM**	**P6F0375**
Cadmium	BRL	mg/kg dry	0.31	0.0084	1	*6010D	6/21/16 16:57	BGM	P6F0375
Chromium	**31**	**mg/kg dry**	**0.31**	**0.052**	**1**	***6010D**	**6/21/16 3:21**	**BGM**	**P6F0375**
Copper	**35**	**mg/kg dry**	**0.63**	**0.057**	**1**	***6010D**	**6/21/16 3:21**	**BGM**	**P6F0375**

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Laboratory Report

06/24/2016

Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Reliable Buff Facility

Sample Matrix: Solid

Client Sample ID: MW-1 (0-2)
Prism Sample ID: 6060246-01
Prism Work Order: 6060246
Time Collected: 06/09/16 09:45
Time Submitted: 06/14/16 11:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Lead	**13**	**mg/kg dry**	**0.31**	**0.058**	**1**	***6010D**	**6/21/16 3:21**	**BGM**	**P6F0375**
Manganese	**160 BH**	**mg/kg dry**	**0.31**	**0.063**	**1**	***6010D**	**6/21/16 3:21**	**BGM**	**P6F0375**
Nickel	**16**	**mg/kg dry**	**0.63**	**0.023**	**1**	***6010D**	**6/21/16 3:21**	**BGM**	**P6F0375**
Selenium	BRL	mg/kg dry	0.63	0.15	1	*6010D	6/21/16 3:21	BGM	P6F0375
Silver	BRL	mg/kg dry	0.31	0.0078	1	*6010D	6/21/16 3:21	BGM	P6F0375
Thallium	BRL	mg/kg dry	0.63	0.082	1	*6010D	6/21/16 3:21	BGM	P6F0375
Zinc	**40**	**mg/kg dry**	**3.1**	**0.11**	**1**	***6010D**	**6/21/16 3:21**	**BGM**	**P6F0375**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0060	0.00049	1	*8260B	6/17/16 13:39	ANG	P6F0403
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0060	0.00029	1	*8260B	6/17/16 13:39	ANG	P6F0403
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0060	0.00040	1	*8260B	6/17/16 13:39	ANG	P6F0403
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0060	0.00053	1	*8260B	6/17/16 13:39	ANG	P6F0403
1,1-Dichloroethane	BRL	mg/kg dry	0.0060	0.00017	1	*8260B	6/17/16 13:39	ANG	P6F0403
1,1-Dichloroethylene	BRL	mg/kg dry	0.0060	0.00026	1	*8260B	6/17/16 13:39	ANG	P6F0403
1,1-Dichloropropylene	BRL	mg/kg dry	0.0060	0.00033	1	*8260B	6/17/16 13:39	ANG	P6F0403
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0060	0.00034	1	*8260B	6/17/16 13:39	ANG	P6F0403
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0060	0.00076	1	*8260B	6/17/16 13:39	ANG	P6F0403
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0060	0.00044	1	*8260B	6/17/16 13:39	ANG	P6F0403
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0060	0.00046	1	*8260B	6/17/16 13:39	ANG	P6F0403
1,2-Dibromoethane	BRL	mg/kg dry	0.0060	0.00024	1	*8260B	6/17/16 13:39	ANG	P6F0403
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0060	0.00028	1	*8260B	6/17/16 13:39	ANG	P6F0403
1,2-Dichloroethane	BRL	mg/kg dry	0.0060	0.00036	1	*8260B	6/17/16 13:39	ANG	P6F0403
1,2-Dichloropropane	BRL	mg/kg dry	0.0060	0.00037	1	*8260B	6/17/16 13:39	ANG	P6F0403
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0060	0.00045	1	*8260B	6/17/16 13:39	ANG	P6F0403
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0060	0.00040	1	*8260B	6/17/16 13:39	ANG	P6F0403
1,3-Dichloropropane	BRL	mg/kg dry	0.0060	0.00030	1	*8260B	6/17/16 13:39	ANG	P6F0403
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0060	0.00024	1	*8260B	6/17/16 13:39	ANG	P6F0403
2,2-Dichloropropane	BRL	mg/kg dry	0.0060	0.00028	1	*8260B	6/17/16 13:39	ANG	P6F0403
2-Chlorotoluene	BRL	mg/kg dry	0.0060	0.00031	1	*8260B	6/17/16 13:39	ANG	P6F0403
4-Chlorotoluene	BRL	mg/kg dry	0.0060	0.00036	1	*8260B	6/17/16 13:39	ANG	P6F0403
4-Isopropyltoluene	BRL	mg/kg dry	0.0060	0.00029	1	*8260B	6/17/16 13:39	ANG	P6F0403
Acetone	BRL	mg/kg dry	0.060	0.0015	1	*8260B	6/17/16 13:39	ANG	P6F0403
Benzene	BRL	mg/kg dry	0.0036	0.00035	1	*8260B	6/17/16 13:39	ANG	P6F0403
Bromobenzene	BRL	mg/kg dry	0.0060	0.00050	1	*8260B	6/17/16 13:39	ANG	P6F0403
Bromochloromethane	BRL	mg/kg dry	0.0060	0.00033	1	*8260B	6/17/16 13:39	ANG	P6F0403
Bromodichloromethane	BRL	mg/kg dry	0.0060	0.00033	1	*8260B	6/17/16 13:39	ANG	P6F0403
Bromoform	BRL	mg/kg dry	0.0060	0.00068	1	*8260B	6/17/16 13:39	ANG	P6F0403
Bromomethane	BRL	mg/kg dry	0.012	0.00074	1	*8260B	6/17/16 13:39	ANG	P6F0403
Carbon Tetrachloride	BRL	mg/kg dry	0.0060	0.00030	1	*8260B	6/17/16 13:39	ANG	P6F0403
Chlorobenzene	BRL	mg/kg dry	0.0060	0.00032	1	*8260B	6/17/16 13:39	ANG	P6F0403
Chloroethane	BRL	mg/kg dry	0.012	0.00050	1	*8260B	6/17/16 13:39	ANG	P6F0403

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Laboratory Report

06/24/2016

Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Reliable Buff Facility

Sample Matrix: Solid

Client Sample ID: MW-1 (0-2)
Prism Sample ID: 6060246-01
Prism Work Order: 6060246
Time Collected: 06/09/16 09:45
Time Submitted: 06/14/16 11:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloroform	BRL	mg/kg dry	0.0060	0.00043	1	*8260B	6/17/16 13:39	ANG	P6F0403
Chloromethane	BRL	mg/kg dry	0.0060	0.00040	1	*8260B	6/17/16 13:39	ANG	P6F0403
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0060	0.00025	1	*8260B	6/17/16 13:39	ANG	P6F0403
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0060	0.00020	1	*8260B	6/17/16 13:39	ANG	P6F0403
Dibromochloromethane	BRL	mg/kg dry	0.0060	0.00025	1	*8260B	6/17/16 13:39	ANG	P6F0403
Dichlorodifluoromethane	BRL	mg/kg dry	0.0060	0.00027	1	*8260B	6/17/16 13:39	ANG	P6F0403
Ethylbenzene	BRL	mg/kg dry	0.0060	0.00023	1	*8260B	6/17/16 13:39	ANG	P6F0403
Isopropyl Ether	BRL	mg/kg dry	0.0060	0.00024	1	*8260B	6/17/16 13:39	ANG	P6F0403
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0060	0.00035	1	*8260B	6/17/16 13:39	ANG	P6F0403
m,p-Xylenes	BRL	mg/kg dry	0.012	0.00055	1	*8260B	6/17/16 13:39	ANG	P6F0403
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.060	0.00054	1	*8260B	6/17/16 13:39	ANG	P6F0403
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.12	0.00054	1	*8260B	6/17/16 13:39	ANG	P6F0403
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.060	0.00051	1	*8260B	6/17/16 13:39	ANG	P6F0403
Methylene Chloride	BRL	mg/kg dry	0.0060	0.00034	1	*8260B	6/17/16 13:39	ANG	P6F0403
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.012	0.00019	1	*8260B	6/17/16 13:39	ANG	P6F0403
Naphthalene	BRL	mg/kg dry	0.012	0.00019	1	*8260B	6/17/16 13:39	ANG	P6F0403
n-Butylbenzene	BRL	mg/kg dry	0.0060	0.00031	1	*8260B	6/17/16 13:39	ANG	P6F0403
n-Propylbenzene	BRL	mg/kg dry	0.0060	0.00036	1	*8260B	6/17/16 13:39	ANG	P6F0403
o-Xylene	BRL	mg/kg dry	0.0060	0.00025	1	*8260B	6/17/16 13:39	ANG	P6F0403
sec-Butylbenzene	BRL	mg/kg dry	0.0060	0.00029	1	*8260B	6/17/16 13:39	ANG	P6F0403
Styrene	BRL	mg/kg dry	0.0060	0.00036	1	*8260B	6/17/16 13:39	ANG	P6F0403
tert-Butylbenzene	BRL	mg/kg dry	0.0060	0.00020	1	*8260B	6/17/16 13:39	ANG	P6F0403
Tetrachloroethylene	BRL	mg/kg dry	0.0060	0.00028	1	*8260B	6/17/16 13:39	ANG	P6F0403
Toluene	BRL	mg/kg dry	0.0060	0.00034	1	*8260B	6/17/16 13:39	ANG	P6F0403
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0060	0.00036	1	*8260B	6/17/16 13:39	ANG	P6F0403
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0060	0.00031	1	*8260B	6/17/16 13:39	ANG	P6F0403
Trichloroethylene	BRL	mg/kg dry	0.0060	0.00039	1	*8260B	6/17/16 13:39	ANG	P6F0403
Trichlorofluoromethane	BRL	mg/kg dry	0.0060	0.00039	1	*8260B	6/17/16 13:39	ANG	P6F0403
Vinyl acetate	BRL	mg/kg dry	0.030	0.00082	1	*8260B	6/17/16 13:39	ANG	P6F0403
Vinyl chloride	BRL	mg/kg dry	0.0060	0.00029	1	*8260B	6/17/16 13:39	ANG	P6F0403
Xylenes, total	BRL	mg/kg dry	0.018	0.0011	1	*8260B	6/17/16 13:39	ANG	P6F0403

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*97 %*	*70-130*
Dibromofluoromethane	*99 %*	*84-123*
Toluene-d8	*98 %*	*76-129*

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Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Reliable Buff Facility

Prism Work Order: 6060246
Time Submitted: 6/14/2016 11:50:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0403 - 5035										
Blank (P6F0403-BLK1)				Prepared & Analyzed: 06/17/16						
1,1,1,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,1-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,2-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethylene	BRL	0.0050	mg/kg wet							
1,1-Dichloropropylene	BRL	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,3-Trichloropropane	BRL	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,2-Dibromoethane	BRL	0.0050	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,2-Dichloroethane	BRL	0.0050	mg/kg wet							
1,2-Dichloropropane	BRL	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,3-Dichloropropane	BRL	0.0050	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.0050	mg/kg wet							
2,2-Dichloropropane	BRL	0.0050	mg/kg wet							
2-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Isopropyltoluene	BRL	0.0050	mg/kg wet							
Acetone	BRL	0.050	mg/kg wet							
Benzene	BRL	0.0030	mg/kg wet							
Bromobenzene	BRL	0.0050	mg/kg wet							
Bromochloromethane	BRL	0.0050	mg/kg wet							
Bromodichloromethane	BRL	0.0050	mg/kg wet							
Bromoform	BRL	0.0050	mg/kg wet							
Bromomethane	BRL	0.010	mg/kg wet							
Carbon Tetrachloride	BRL	0.0050	mg/kg wet							
Chlorobenzene	BRL	0.0050	mg/kg wet							
Chloroethane	BRL	0.010	mg/kg wet							
Chloroform	BRL	0.0050	mg/kg wet							
Chloromethane	BRL	0.0050	mg/kg wet							
cis-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
cis-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Dibromochloromethane	BRL	0.0050	mg/kg wet							
Dichlorodifluoromethane	BRL	0.0050	mg/kg wet							
Ethylbenzene	BRL	0.0050	mg/kg wet							
Isopropyl Ether	BRL	0.0050	mg/kg wet							
Isopropylbenzene (Cumene)	BRL	0.0050	mg/kg wet							
m,p-Xylenes	BRL	0.010	mg/kg wet							
Methyl Butyl Ketone (2-Hexanone)	BRL	0.050	mg/kg wet							
Methyl Ethyl Ketone (2-Butanone)	BRL	0.10	mg/kg wet							
Methyl Isobutyl Ketone	BRL	0.050	mg/kg wet							

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Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Reliable Buff Facility

Prism Work Order: 6060246
Time Submitted: 6/14/2016 11:50:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0403 - 5035										
Blank (P6F0403-BLK1)				Prepared & Analyzed: 06/17/16						
Methylene Chloride	BRL	0.0050	mg/kg wet							
Methyl-tert-Butyl Ether	BRL	0.010	mg/kg wet							
Naphthalene	BRL	0.010	mg/kg wet							
n-Butylbenzene	BRL	0.0050	mg/kg wet							
n-Propylbenzene	BRL	0.0050	mg/kg wet							
o-Xylene	BRL	0.0050	mg/kg wet							
sec-Butylbenzene	BRL	0.0050	mg/kg wet							
Styrene	BRL	0.0050	mg/kg wet							
tert-Butylbenzene	BRL	0.0050	mg/kg wet							
Tetrachloroethylene	BRL	0.0050	mg/kg wet							
Toluene	BRL	0.0050	mg/kg wet							
trans-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
trans-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Trichloroethylene	BRL	0.0050	mg/kg wet							
Trichlorofluoromethane	BRL	0.0050	mg/kg wet							
Vinyl acetate	BRL	0.025	mg/kg wet							
Vinyl chloride	BRL	0.0050	mg/kg wet							
Xylenes, total	BRL	0.015	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*50.5*		*ug/L*	*50.00*		*101*	*70-130*			
Surrogate: Dibromofluoromethane	*47.7*		*ug/L*	*50.00*		*95*	*84-123*			
Surrogate: Toluene-d8	*48.4*		*ug/L*	*50.00*		*97*	*76-129*			
LCS (P6F0403-BS1)				Prepared & Analyzed: 06/17/16						
1,1,1,2-Tetrachloroethane	0.0513	0.0050	mg/kg wet	0.05000		103	72-115			
1,1,1-Trichloroethane	0.0508	0.0050	mg/kg wet	0.05000		102	67-131			
1,1,2,2-Tetrachloroethane	0.0526	0.0050	mg/kg wet	0.05000		105	56-126			
1,1,2-Trichloroethane	0.0503	0.0050	mg/kg wet	0.05000		101	70-133			
1,1-Dichloroethane	0.0498	0.0050	mg/kg wet	0.05000		100	74-127			
1,1-Dichloroethylene	0.0474	0.0050	mg/kg wet	0.05000		95	67-149			
1,1-Dichloropropylene	0.0494	0.0050	mg/kg wet	0.05000		99	71-130			
1,2,3-Trichlorobenzene	0.0527	0.0050	mg/kg wet	0.05000		105	68-130			
1,2,3-Trichloropropane	0.0497	0.0050	mg/kg wet	0.05000		99	60-137			
1,2,4-Trichlorobenzene	0.0547	0.0050	mg/kg wet	0.05000		109	66-125			
1,2,4-Trimethylbenzene	0.0534	0.0050	mg/kg wet	0.05000		107	69-129			
1,2-Dibromoethane	0.0556	0.0050	mg/kg wet	0.05000		111	70-132			
1,2-Dichlorobenzene	0.0535	0.0050	mg/kg wet	0.05000		107	72-123			
1,2-Dichloroethane	0.0464	0.0050	mg/kg wet	0.05000		93	68-128			
1,2-Dichloropropane	0.0515	0.0050	mg/kg wet	0.05000		103	73-130			
1,3,5-Trimethylbenzene	0.0537	0.0050	mg/kg wet	0.05000		107	69-128			
1,3-Dichlorobenzene	0.0551	0.0050	mg/kg wet	0.05000		110	71-120			
1,3-Dichloropropane	0.0492	0.0050	mg/kg wet	0.05000		98	75-124			
1,4-Dichlorobenzene	0.0523	0.0050	mg/kg wet	0.05000		105	71-123			
2,2-Dichloropropane	0.0530	0.0050	mg/kg wet	0.05000		106	50-142			
2-Chlorotoluene	0.0544	0.0050	mg/kg wet	0.05000		109	67-124			
4-Chlorotoluene	0.0537	0.0050	mg/kg wet	0.05000		107	71-126			
4-Isopropyltoluene	0.0564	0.0050	mg/kg wet	0.05000		113	68-129			
Acetone	0.101	0.050	mg/kg wet	0.1000		101	29-198			

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Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Reliable Buff Facility

Prism Work Order: 6060246
Time Submitted: 6/14/2016 11:50:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0403 - 5035										
LCS (P6F0403-BS1)				Prepared & Analyzed: 06/17/16						
Benzene	0.0513	0.0030	mg/kg wet	0.05000		103	74-127			
Bromobenzene	0.0536	0.0050	mg/kg wet	0.05000		107	73-125			
Bromochloromethane	0.0485	0.0050	mg/kg wet	0.05000		97	72-134			
Bromodichloromethane	0.0489	0.0050	mg/kg wet	0.05000		98	75-122			
Bromoform	0.0507	0.0050	mg/kg wet	0.05000		101	66-135			
Bromomethane	0.0512	0.010	mg/kg wet	0.05000		102	20-180			
Carbon Tetrachloride	0.0503	0.0050	mg/kg wet	0.05000		101	64-143			
Chlorobenzene	0.0523	0.0050	mg/kg wet	0.05000		105	74-118			
Chloroethane	0.0471	0.010	mg/kg wet	0.05000		94	33-149			
Chloroform	0.0508	0.0050	mg/kg wet	0.05000		102	73-127			
Chloromethane	0.0508	0.0050	mg/kg wet	0.05000		102	45-143			
cis-1,2-Dichloroethylene	0.0493	0.0050	mg/kg wet	0.05000		99	76-134			
cis-1,3-Dichloropropylene	0.0514	0.0050	mg/kg wet	0.05000		103	71-125			
Dibromochloromethane	0.0497	0.0050	mg/kg wet	0.05000		99	73-122			
Dichlorodifluoromethane	0.0428	0.0050	mg/kg wet	0.05000		86	26-146			
Ethylbenzene	0.0523	0.0050	mg/kg wet	0.05000		105	74-128			
Isopropyl Ether	0.0476	0.0050	mg/kg wet	0.05000		95	59-159			
Isopropylbenzene (Cumene)	0.0531	0.0050	mg/kg wet	0.05000		106	68-126			
m,p-Xylenes	0.106	0.010	mg/kg wet	0.1000		106	75-124			
Methyl Butyl Ketone (2-Hexanone)	0.0550	0.050	mg/kg wet	0.05000		110	61-157			
Methyl Ethyl Ketone (2-Butanone)	0.0554	0.10	mg/kg wet	0.05000		111	63-149			
Methyl Isobutyl Ketone	0.0512	0.050	mg/kg wet	0.05000		102	57-162			
Methylene Chloride	0.0449	0.0050	mg/kg wet	0.05000		90	74-129			
Methyl-tert-Butyl Ether	0.0473	0.010	mg/kg wet	0.05000		95	70-130			
Naphthalene	0.0553	0.010	mg/kg wet	0.05000		111	57-157			
n-Butylbenzene	0.0560	0.0050	mg/kg wet	0.05000		112	65-135			
n-Propylbenzene	0.0543	0.0050	mg/kg wet	0.05000		109	67-130			
o-Xylene	0.0548	0.0050	mg/kg wet	0.05000		110	74-126			
sec-Butylbenzene	0.0532	0.0050	mg/kg wet	0.05000		106	66-131			
Styrene	0.0590	0.0050	mg/kg wet	0.05000		118	77-121			
tert-Butylbenzene	0.0514	0.0050	mg/kg wet	0.05000		103	67-132			
Tetrachloroethylene	0.0496	0.0050	mg/kg wet	0.05000		99	68-130			
Toluene	0.0526	0.0050	mg/kg wet	0.05000		105	71-129			
trans-1,2-Dichloroethylene	0.0502	0.0050	mg/kg wet	0.05000		100	73-132			
trans-1,3-Dichloropropylene	0.0486	0.0050	mg/kg wet	0.05000		97	68-123			
Trichloroethylene	0.0502	0.0050	mg/kg wet	0.05000		100	75-133			
Trichlorofluoromethane	0.0483	0.0050	mg/kg wet	0.05000		97	44-146			
Vinyl acetate	0.0537	0.025	mg/kg wet	0.05000		107	85-161			
Vinyl chloride	0.0554	0.0050	mg/kg wet	0.05000		111	48-147			
Xylenes, total	0.161	0.015	mg/kg wet	0.1500		107	74-126			
Surrogate: 4-Bromofluorobenzene	*50.0*		*ug/L*	*50.00*		*100*	*70-130*			
Surrogate: Dibromofluoromethane	*48.3*		*ug/L*	*50.00*		*97*	*84-123*			
Surrogate: Toluene-d8	*49.9*		*ug/L*	*50.00*		*100*	*76-129*			

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Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Reliable Buff Facility

Prism Work Order: 6060246
Time Submitted: 6/14/2016 11:50:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0403 - 5035										
LCS Dup (P6F0403-BSD1)				Prepared & Analyzed: 06/17/16						
1,1,1,2-Tetrachloroethane	0.0472	0.0050	mg/kg wet	0.05000		94	72-115	8	20	
1,1,1-Trichloroethane	0.0459	0.0050	mg/kg wet	0.05000		92	67-131	10	20	
1,1,2,2-Tetrachloroethane	0.0464	0.0050	mg/kg wet	0.05000		93	56-126	12	20	
1,1,2-Trichloroethane	0.0475	0.0050	mg/kg wet	0.05000		95	70-133	6	20	
1,1-Dichloroethane	0.0458	0.0050	mg/kg wet	0.05000		92	74-127	8	20	
1,1-Dichloroethylene	0.0463	0.0050	mg/kg wet	0.05000		93	67-149	2	20	
1,1-Dichloropropylene	0.0448	0.0050	mg/kg wet	0.05000		90	71-130	10	20	
1,2,3-Trichlorobenzene	0.0511	0.0050	mg/kg wet	0.05000		102	68-130	3	20	
1,2,3-Trichloropropane	0.0460	0.0050	mg/kg wet	0.05000		92	60-137	8	20	
1,2,4-Trichlorobenzene	0.0528	0.0050	mg/kg wet	0.05000		106	66-125	4	20	
1,2,4-Trimethylbenzene	0.0494	0.0050	mg/kg wet	0.05000		99	69-129	8	20	
1,2-Dibromoethane	0.0511	0.0050	mg/kg wet	0.05000		102	70-132	8	20	
1,2-Dichlorobenzene	0.0501	0.0050	mg/kg wet	0.05000		100	72-123	7	20	
1,2-Dichloroethane	0.0429	0.0050	mg/kg wet	0.05000		86	68-128	8	20	
1,2-Dichloropropane	0.0472	0.0050	mg/kg wet	0.05000		94	73-130	9	20	
1,3,5-Trimethylbenzene	0.0495	0.0050	mg/kg wet	0.05000		99	69-128	8	20	
1,3-Dichlorobenzene	0.0500	0.0050	mg/kg wet	0.05000		100	71-120	10	20	
1,3-Dichloropropane	0.0447	0.0050	mg/kg wet	0.05000		89	75-124	10	20	
1,4-Dichlorobenzene	0.0486	0.0050	mg/kg wet	0.05000		97	71-123	7	20	
2,2-Dichloropropane	0.0473	0.0050	mg/kg wet	0.05000		95	50-142	11	20	
2-Chlorotoluene	0.0502	0.0050	mg/kg wet	0.05000		100	67-124	8	20	
4-Chlorotoluene	0.0493	0.0050	mg/kg wet	0.05000		99	71-126	9	20	
4-Isopropyltoluene	0.0505	0.0050	mg/kg wet	0.05000		101	68-129	11	20	
Acetone	0.0938	0.050	mg/kg wet	0.1000		94	29-198	7	20	
Benzene	0.0468	0.0030	mg/kg wet	0.05000		94	74-127	9	20	
Bromobenzene	0.0503	0.0050	mg/kg wet	0.05000		101	73-125	6	20	
Bromochloromethane	0.0459	0.0050	mg/kg wet	0.05000		92	72-134	6	20	
Bromodichloromethane	0.0452	0.0050	mg/kg wet	0.05000		90	75-122	8	20	
Bromoform	0.0452	0.0050	mg/kg wet	0.05000		90	66-135	11	20	
Bromomethane	0.0458	0.010	mg/kg wet	0.05000		92	20-180	11	20	
Carbon Tetrachloride	0.0454	0.0050	mg/kg wet	0.05000		91	64-143	10	20	
Chlorobenzene	0.0480	0.0050	mg/kg wet	0.05000		96	74-118	8	20	
Chloroethane	0.0410	0.010	mg/kg wet	0.05000		82	33-149	14	20	
Chloroform	0.0464	0.0050	mg/kg wet	0.05000		93	73-127	9	20	
Chloromethane	0.0468	0.0050	mg/kg wet	0.05000		94	45-143	8	20	
cis-1,2-Dichloroethylene	0.0451	0.0050	mg/kg wet	0.05000		90	76-134	9	20	
cis-1,3-Dichloropropylene	0.0473	0.0050	mg/kg wet	0.05000		95	71-125	8	20	
Dibromochloromethane	0.0465	0.0050	mg/kg wet	0.05000		93	73-122	7	20	
Dichlorodifluoromethane	0.0376	0.0050	mg/kg wet	0.05000		75	26-146	13	20	
Ethylbenzene	0.0482	0.0050	mg/kg wet	0.05000		96	74-128	8	20	
Isopropyl Ether	0.0448	0.0050	mg/kg wet	0.05000		90	59-159	6	20	
Isopropylbenzene (Cumene)	0.0489	0.0050	mg/kg wet	0.05000		98	68-126	8	20	
m,p-Xylenes	0.0955	0.010	mg/kg wet	0.1000		96	75-124	11	20	
Methyl Butyl Ketone (2-Hexanone)	0.0508	0.050	mg/kg wet	0.05000		102	61-157	8	20	
Methyl Ethyl Ketone (2-Butanone)	0.0528	0.10	mg/kg wet	0.05000		106	63-149	5	20	
Methyl Isobutyl Ketone	0.0474	0.050	mg/kg wet	0.05000		95	57-162	8	20	

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Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Reliable Buff Facility

Prism Work Order: 6060246
Time Submitted: 6/14/2016 11:50:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0403 - 5035										
LCS Dup (P6F0403-BSD1)				Prepared & Analyzed: 06/17/16						
Methylene Chloride	0.0422	0.0050	mg/kg wet	0.05000		84	74-129	6	20	
Methyl-tert-Butyl Ether	0.0454	0.010	mg/kg wet	0.05000		91	70-130	4	20	
Naphthalene	0.0530	0.010	mg/kg wet	0.05000		106	57-157	4	20	
n-Butylbenzene	0.0496	0.0050	mg/kg wet	0.05000		99	65-135	12	20	
n-Propylbenzene	0.0488	0.0050	mg/kg wet	0.05000		98	67-130	11	20	
o-Xylene	0.0480	0.0050	mg/kg wet	0.05000		96	74-126	13	20	
sec-Butylbenzene	0.0479	0.0050	mg/kg wet	0.05000		96	66-131	11	20	
Styrene	0.0521	0.0050	mg/kg wet	0.05000		104	77-121	12	20	
tert-Butylbenzene	0.0474	0.0050	mg/kg wet	0.05000		95	67-132	8	20	
Tetrachloroethylene	0.0444	0.0050	mg/kg wet	0.05000		89	68-130	11	20	
Toluene	0.0470	0.0050	mg/kg wet	0.05000		94	71-129	11	20	
trans-1,2-Dichloroethylene	0.0459	0.0050	mg/kg wet	0.05000		92	73-132	9	20	
trans-1,3-Dichloropropylene	0.0460	0.0050	mg/kg wet	0.05000		92	68-123	5	20	
Trichloroethylene	0.0453	0.0050	mg/kg wet	0.05000		91	75-133	10	20	
Trichlorofluoromethane	0.0426	0.0050	mg/kg wet	0.05000		85	44-146	13	20	
Vinyl acetate	0.0490	0.025	mg/kg wet	0.05000		98	85-161	9	20	
Vinyl chloride	0.0478	0.0050	mg/kg wet	0.05000		96	48-147	15	20	
Xylenes, total	0.144	0.015	mg/kg wet	0.1500		96	74-126	11	20	
Surrogate: 4-Bromofluorobenzene	*49.4*		*ug/L*	*50.00*		*99*	*70-130*			
Surrogate: Dibromofluoromethane	*49.1*		*ug/L*	*50.00*		*98*	*84-123*			
Surrogate: Toluene-d8	*50.0*		*ug/L*	*50.00*		*100*	*76-129*			

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Project: Reliable Buff Facility

Prism Work Order: 6060246
Time Submitted: 6/14/2016 11:50:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0318 - 3546										
Blank (P6F0318-BLK1)				Prepared: 06/16/16 Analyzed: 06/17/16						
1,2,4-Trichlorobenzene	BRL	0.33	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.33	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.33	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.33	mg/kg wet							
1-Methylnaphthalene	BRL	0.33	mg/kg wet							
2,4,6-Trichlorophenol	BRL	0.33	mg/kg wet							
2,4-Dichlorophenol	BRL	0.33	mg/kg wet							
2,4-Dimethylphenol	BRL	0.33	mg/kg wet							
2,4-Dinitrophenol	BRL	0.33	mg/kg wet							
2,4-Dinitrotoluene	BRL	0.33	mg/kg wet							
2,6-Dinitrotoluene	BRL	0.33	mg/kg wet							
2-Chloronaphthalene	BRL	0.33	mg/kg wet							
2-Chlorophenol	BRL	0.33	mg/kg wet							
2-Methylnaphthalene	BRL	0.33	mg/kg wet							
2-Methylphenol	BRL	0.33	mg/kg wet							
2-Nitrophenol	BRL	0.33	mg/kg wet							
3,3'-Dichlorobenzidine	BRL	0.33	mg/kg wet							
3/4-Methylphenol	BRL	0.33	mg/kg wet							
4,6-Dinitro-2-methylphenol	BRL	0.33	mg/kg wet							
4-Bromophenyl phenyl ether	BRL	0.33	mg/kg wet							
4-Chloro-3-methylphenol	BRL	0.33	mg/kg wet							
4-Chloroaniline	BRL	0.33	mg/kg wet							
4-Chlorophenyl phenyl ether	BRL	0.33	mg/kg wet							
4-Nitrophenol	BRL	0.33	mg/kg wet							
Acenaphthene	BRL	0.33	mg/kg wet							
Acenaphthylene	BRL	0.33	mg/kg wet							
Anthracene	BRL	0.33	mg/kg wet							
Azobenzene	BRL	0.33	mg/kg wet							
Benzo(a)anthracene	BRL	0.33	mg/kg wet							
Benzo(a)pyrene	BRL	0.33	mg/kg wet							
Benzo(b)fluoranthene	BRL	0.33	mg/kg wet							
Benzo(g,h,i)perylene	BRL	0.33	mg/kg wet							
Benzo(k)fluoranthene	BRL	0.33	mg/kg wet							
Benzoic Acid	BRL	0.33	mg/kg wet							
Benzyl alcohol	BRL	0.33	mg/kg wet							
bis(2-Chloroethoxy)methane	BRL	0.33	mg/kg wet							
Bis(2-Chloroethyl)ether	BRL	0.33	mg/kg wet							
Bis(2-chloroisopropyl)ether	BRL	0.33	mg/kg wet							
Bis(2-Ethylhexyl)phthalate	BRL	0.33	mg/kg wet							
Butyl benzyl phthalate	BRL	0.33	mg/kg wet							
Chrysene	BRL	0.33	mg/kg wet							
Dibenzo(a,h)anthracene	BRL	0.33	mg/kg wet							
Dibenzofuran	BRL	0.33	mg/kg wet							
Diethyl phthalate	BRL	0.33	mg/kg wet							
Dimethyl phthalate	BRL	0.33	mg/kg wet							
Di-n-butyl phthalate	BRL	0.33	mg/kg wet							

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Project: Reliable Buff Facility

Prism Work Order: 6060246
Time Submitted: 6/14/2016 11:50:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0318 - 3546										
Blank (P6F0318-BLK1)				Prepared: 06/16/16 Analyzed: 06/17/16						
Di-n-octyl phthalate	BRL	0.33	mg/kg wet							
Fluoranthene	BRL	0.33	mg/kg wet							
Fluorene	BRL	0.33	mg/kg wet							
Hexachlorobenzene	BRL	0.33	mg/kg wet							
Hexachlorobutadiene	BRL	0.33	mg/kg wet							
Hexachlorocyclopentadiene	BRL	0.33	mg/kg wet							
Hexachloroethane	BRL	0.33	mg/kg wet							
Indeno(1,2,3-cd)pyrene	BRL	0.33	mg/kg wet							
Isophorone	BRL	0.33	mg/kg wet							
Naphthalene	BRL	0.33	mg/kg wet							
Nitrobenzene	BRL	0.33	mg/kg wet							
N-Nitroso-di-n-propylamine	BRL	0.33	mg/kg wet							
N-Nitrosodiphenylamine	BRL	0.33	mg/kg wet							
Pentachlorophenol	BRL	0.33	mg/kg wet							
Phenanthrene	BRL	0.33	mg/kg wet							
Phenol	BRL	0.33	mg/kg wet							
Pyrene	BRL	0.33	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	*2.74*		*mg/kg wet*	*3.310*		*83*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.23*		*mg/kg wet*	*1.655*		*74*	*44-115*			
Surrogate: 2-Fluorophenol	*2.57*		*mg/kg wet*	*3.310*		*78*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.15*		*mg/kg wet*	*1.655*		*69*	*37-122*			
Surrogate: Phenol-d5	*2.51*		*mg/kg wet*	*3.310*		*76*	*34-121*			
Surrogate: Terphenyl-d14	*1.55*		*mg/kg wet*	*1.655*		*93*	*54-127*			
LCS (P6F0318-BS1)				Prepared: 06/16/16 Analyzed: 06/17/16						
1,2,4-Trichlorobenzene	1.06	0.32	mg/kg wet	1.629		65	34-118			
1,2-Dichlorobenzene	0.998	0.32	mg/kg wet	1.629		61	33-117			
1,3-Dichlorobenzene	0.952	0.32	mg/kg wet	1.629		58	30-115			
1,4-Dichlorobenzene	0.971	0.32	mg/kg wet	1.629		60	31-115			
1-Methylnaphthalene	1.06	0.32	mg/kg wet	1.629		65	40-119			
2,4,6-Trichlorophenol	1.20	0.32	mg/kg wet	1.629		74	39-126			
2,4-Dichlorophenol	1.21	0.32	mg/kg wet	1.629		74	40-122			
2,4-Dimethylphenol	1.21	0.32	mg/kg wet	1.629		74	30-127			
2,4-Dinitrophenol	0.868	0.32	mg/kg wet	1.629		53	27-129			
2,4-Dinitrotoluene	1.12	0.32	mg/kg wet	1.629		69	48-126			
2,6-Dinitrotoluene	1.07	0.32	mg/kg wet	1.629		66	46-124			
2-Chloronaphthalene	1.36	0.32	mg/kg wet	1.629		84	41-114			
2-Chlorophenol	1.14	0.32	mg/kg wet	1.629		70	34-121			
2-Methylnaphthalene	1.04	0.32	mg/kg wet	1.629		64	38-122			
2-Methylphenol	1.12	0.32	mg/kg wet	1.629		69	32-122			
2-Nitrophenol	1.06	0.32	mg/kg wet	1.629		65	36-123			
3,3'-Dichlorobenzidine	1.14	0.32	mg/kg wet	1.629		70	22-121			
3/4-Methylphenol	1.13	0.32	mg/kg wet	1.629		70	34-119			
4,6-Dinitro-2-methylphenol	1.11	0.32	mg/kg wet	1.629		68	29-132			
4-Bromophenyl phenyl ether	1.14	0.32	mg/kg wet	1.629		70	46-124			
4-Chloro-3-methylphenol	1.23	0.32	mg/kg wet	1.629		76	45-122			
4-Chloroaniline	1.10	0.32	mg/kg wet	1.629		67	17-106			

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Project: Reliable Buff Facility

Prism Work Order: 6060246
Time Submitted: 6/14/2016 11:50:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0318 - 3546										
LCS (P6F0318-BS1)				Prepared: 06/16/16 Analyzed: 06/17/16						
4-Chlorophenyl phenyl ether	1.16	0.32	mg/kg wet	1.629		71	45-121			
4-Nitrophenol	1.18	0.32	mg/kg wet	1.629		72	30-132			
Acenaphthene	1.11	0.32	mg/kg wet	1.629		68	40-123			
Acenaphthylene	1.17	0.32	mg/kg wet	1.629		72	32-132			
Anthracene	1.21	0.32	mg/kg wet	1.629		74	47-123			
Azobenzene	1.13	0.32	mg/kg wet	1.629		70	39-125			
Benzo(a)anthracene	1.20	0.32	mg/kg wet	1.629		74	49-126			
Benzo(a)pyrene	1.24	0.32	mg/kg wet	1.629		76	45-129			
Benzo(b)fluoranthene	1.14	0.32	mg/kg wet	1.629		70	45-132			
Benzo(g,h,i)perylene	1.15	0.32	mg/kg wet	1.629		71	43-134			
Benzo(k)fluoranthene	1.23	0.32	mg/kg wet	1.629		76	47-132			
Benzoic Acid	0.461	0.32	mg/kg wet	1.629		28	10-83			
Benzyl alcohol	0.908	0.32	mg/kg wet	1.629		56	29-122			
bis(2-Chloroethoxy)methane	1.03	0.32	mg/kg wet	1.629		63	36-121			
Bis(2-Chloroethyl)ether	1.02	0.32	mg/kg wet	1.629		63	31-120			
Bis(2-chloroisopropyl)ether	0.994	0.32	mg/kg wet	1.629		61	33-131			
Bis(2-Ethylhexyl)phthalate	1.17	0.32	mg/kg wet	1.629		72	51-133			
Butyl benzyl phthalate	1.17	0.32	mg/kg wet	1.629		72	48-132			
Chrysene	1.23	0.32	mg/kg wet	1.629		75	50-124			
Dibenzo(a,h)anthracene	1.18	0.32	mg/kg wet	1.629		72	45-134			
Dibenzofuran	1.19	0.32	mg/kg wet	1.629		73	44-120			
Diethyl phthalate	1.20	0.32	mg/kg wet	1.629		73	50-124			
Dimethyl phthalate	1.16	0.32	mg/kg wet	1.629		72	48-124			
Di-n-butyl phthalate	1.23	0.32	mg/kg wet	1.629		76	51-128			
Di-n-octyl phthalate	1.20	0.32	mg/kg wet	1.629		74	45-140			
Fluoranthene	1.18	0.32	mg/kg wet	1.629		72	50-127			
Fluorene	1.17	0.32	mg/kg wet	1.629		72	43-125			
Hexachlorobenzene	1.24	0.32	mg/kg wet	1.629		76	45-122			
Hexachlorobutadiene	1.07	0.32	mg/kg wet	1.629		66	32-123			
Hexachlorocyclopentadiene	1.02	0.32	mg/kg wet	1.629		63	32-117			
Hexachloroethane	0.949	0.32	mg/kg wet	1.629		58	28-117			
Indeno(1,2,3-cd)pyrene	1.24	0.32	mg/kg wet	1.629		76	45-133			
Isophorone	1.06	0.32	mg/kg wet	1.629		65	30-122			
Naphthalene	1.02	0.32	mg/kg wet	1.629		63	35-123			
Nitrobenzene	0.978	0.32	mg/kg wet	1.629		60	34-122			
N-Nitroso-di-n-propylamine	1.03	0.32	mg/kg wet	1.629		63	36-120			
N-Nitrosodiphenylamine	1.20	0.32	mg/kg wet	1.629		73	38-127			
Pentachlorophenol	1.03	0.32	mg/kg wet	1.629		63	25-133			
Phenanthrene	1.20	0.32	mg/kg wet	1.629		74	50-121			
Phenol	1.11	0.32	mg/kg wet	1.629		68	34-121			
Pyrene	1.18	0.32	mg/kg wet	1.629		72	47-127			
Surrogate: 2,4,6-Tribromophenol	*2.51*		*mg/kg wet*	*3.258*		*77*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.11*		*mg/kg wet*	*1.629*		*68*	*44-115*			
Surrogate: 2-Fluorophenol	*2.30*		*mg/kg wet*	*3.258*		*70*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.06*		*mg/kg wet*	*1.629*		*65*	*37-122*			
Surrogate: Phenol-d5	*2.27*		*mg/kg wet*	*3.258*		*70*	*34-121*			

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Project: Reliable Buff Facility

Prism Work Order: 6060246
Time Submitted: 6/14/2016 11:50:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0318 - 3546										
LCS (P6F0318-BS1)				Prepared: 06/16/16 Analyzed: 06/17/16						
Surrogate: Terphenyl-d14	*1.33*		*mg/kg wet*	*1.629*		*82*	*54-127*			
LCS Dup (P6F0318-BSD1)				Prepared: 06/16/16 Analyzed: 06/17/16						
1,2,4-Trichlorobenzene	0.967	0.33	mg/kg wet	1.664		58	34-118	9	20	
1,2-Dichlorobenzene	0.856	0.33	mg/kg wet	1.664		51	33-117	15	20	
1,3-Dichlorobenzene	0.854	0.33	mg/kg wet	1.664		51	30-115	11	20	
1,4-Dichlorobenzene	0.860	0.33	mg/kg wet	1.664		52	31-115	12	20	
1-Methylnaphthalene	0.997	0.33	mg/kg wet	1.664		60	40-119	6	20	
2,4,6-Trichlorophenol	1.12	0.33	mg/kg wet	1.664		67	39-126	7	20	
2,4-Dichlorophenol	1.13	0.33	mg/kg wet	1.664		68	40-122	7	20	
2,4-Dimethylphenol	1.19	0.33	mg/kg wet	1.664		72	30-127	1	20	
2,4-Dinitrophenol	0.684	0.33	mg/kg wet	1.664		41	27-129	24	20	D
2,4-Dinitrotoluene	1.12	0.33	mg/kg wet	1.664		67	48-126	0.6	20	
2,6-Dinitrotoluene	1.07	0.33	mg/kg wet	1.664		64	46-124	0.05	20	
2-Chloronaphthalene	1.30	0.33	mg/kg wet	1.664		78	41-114	5	20	
2-Chlorophenol	1.01	0.33	mg/kg wet	1.664		61	34-121	12	20	
2-Methylnaphthalene	0.987	0.33	mg/kg wet	1.664		59	38-122	6	20	
2-Methylphenol	1.02	0.33	mg/kg wet	1.664		61	32-122	9	20	
2-Nitrophenol	1.00	0.33	mg/kg wet	1.664		60	36-123	6	20	
3,3'-Dichlorobenzidine	1.16	0.33	mg/kg wet	1.664		70	22-121	2	20	
3/4-Methylphenol	1.04	0.33	mg/kg wet	1.664		62	34-119	9	20	
4,6-Dinitro-2-methylphenol	1.00	0.33	mg/kg wet	1.664		60	29-132	10	20	
4-Bromophenyl phenyl ether	1.09	0.33	mg/kg wet	1.664		65	46-124	5	20	
4-Chloro-3-methylphenol	1.18	0.33	mg/kg wet	1.664		71	45-122	5	20	
4-Chloroaniline	1.07	0.33	mg/kg wet	1.664		64	17-106	3	20	
4-Chlorophenyl phenyl ether	1.14	0.33	mg/kg wet	1.664		68	45-121	2	20	
4-Nitrophenol	1.21	0.33	mg/kg wet	1.664		73	30-132	2	20	
Acenaphthene	1.08	0.33	mg/kg wet	1.664		65	40-123	3	20	
Acenaphthylene	1.13	0.33	mg/kg wet	1.664		68	32-132	3	20	
Anthracene	1.18	0.33	mg/kg wet	1.664		71	47-123	3	20	
Azobenzene	1.11	0.33	mg/kg wet	1.664		66	39-125	2	20	
Benzo(a)anthracene	1.18	0.33	mg/kg wet	1.664		71	49-126	2	20	
Benzo(a)pyrene	1.21	0.33	mg/kg wet	1.664		73	45-129	2	20	
Benzo(b)fluoranthene	1.15	0.33	mg/kg wet	1.664		69	45-132	0.6	20	
Benzo(g,h,i)perylene	1.16	0.33	mg/kg wet	1.664		69	43-134	0.5	20	
Benzo(k)fluoranthene	1.22	0.33	mg/kg wet	1.664		74	47-132	0.8	20	
Benzoic Acid	0.292	0.33	mg/kg wet	1.664		18	10-83	45	20	D
Benzyl alcohol	0.870	0.33	mg/kg wet	1.664		52	29-122	4	20	
bis(2-Chloroethoxy)methane	1.01	0.33	mg/kg wet	1.664		61	36-121	2	20	
Bis(2-Chloroethyl)ether	0.887	0.33	mg/kg wet	1.664		53	31-120	14	20	
Bis(2-chloroisopropyl)ether	0.919	0.33	mg/kg wet	1.664		55	33-131	8	20	
Bis(2-Ethylhexyl)phthalate	1.16	0.33	mg/kg wet	1.664		70	51-133	1	20	
Butyl benzyl phthalate	1.15	0.33	mg/kg wet	1.664		69	48-132	1	20	
Chrysene	1.20	0.33	mg/kg wet	1.664		72	50-124	3	20	
Dibenzo(a,h)anthracene	1.15	0.33	mg/kg wet	1.664		69	45-134	2	20	
Dibenzofuran	1.14	0.33	mg/kg wet	1.664		68	44-120	4	20	
Diethyl phthalate	1.15	0.33	mg/kg wet	1.664		69	50-124	4	20	

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Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Reliable Buff Facility

Prism Work Order: 6060246
Time Submitted: 6/14/2016 11:50:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0318 - 3546										
LCS Dup (P6F0318-BSD1)				Prepared: 06/16/16 Analyzed: 06/17/16						
Dimethyl phthalate	1.14	0.33	mg/kg wet	1.664		68	48-124	2	20	
Di-n-butyl phthalate	1.20	0.33	mg/kg wet	1.664		72	51-128	3	20	
Di-n-octyl phthalate	1.20	0.33	mg/kg wet	1.664		72	45-140	0.4	20	
Fluoranthene	1.14	0.33	mg/kg wet	1.664		69	50-127	3	20	
Fluorene	1.14	0.33	mg/kg wet	1.664		68	43-125	3	20	
Hexachlorobenzene	1.22	0.33	mg/kg wet	1.664		73	45-122	2	20	
Hexachlorobutadiene	0.979	0.33	mg/kg wet	1.664		59	32-123	9	20	
Hexachlorocyclopentadiene	0.967	0.33	mg/kg wet	1.664		58	32-117	6	20	
Hexachloroethane	0.845	0.33	mg/kg wet	1.664		51	28-117	12	20	
Indeno(1,2,3-cd)pyrene	1.23	0.33	mg/kg wet	1.664		74	45-133	0.9	20	
Isophorone	0.999	0.33	mg/kg wet	1.664		60	30-122	6	20	
Naphthalene	0.964	0.33	mg/kg wet	1.664		58	35-123	6	20	
Nitrobenzene	0.925	0.33	mg/kg wet	1.664		56	34-122	5	20	
N-Nitroso-di-n-propylamine	0.923	0.33	mg/kg wet	1.664		55	36-120	11	20	
N-Nitrosodiphenylamine	1.17	0.33	mg/kg wet	1.664		70	38-127	2	20	
Pentachlorophenol	1.02	0.33	mg/kg wet	1.664		61	25-133	1	20	
Phenanthrene	1.15	0.33	mg/kg wet	1.664		69	50-121	4	20	
Phenol	1.01	0.33	mg/kg wet	1.664		61	34-121	9	20	
Pyrene	1.16	0.33	mg/kg wet	1.664		70	47-127	2	20	
Surrogate: 2,4,6-Tribromophenol	*2.47*		*mg/kg wet*	*3.328*		*74*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.06*		*mg/kg wet*	*1.664*		*63*	*44-115*			
Surrogate: 2-Fluorophenol	*2.10*		*mg/kg wet*	*3.328*		*63*	*35-115*			
Surrogate: Nitrobenzene-d5	*0.981*		*mg/kg wet*	*1.664*		*59*	*37-122*			
Surrogate: Phenol-d5	*2.11*		*mg/kg wet*	*3.328*		*63*	*34-121*			
Surrogate: Terphenyl-d14	*1.29*		*mg/kg wet*	*1.664*		*78*	*54-127*			

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Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Reliable Buff Facility

Prism Work Order: 6060246
Time Submitted: 6/14/2016 11:50:00AM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0375 - 3050B										
Blank (P6F0375-BLK1)				Prepared: 06/20/16 Analyzed: 06/21/16						
Antimony	BRL	0.25	mg/kg wet							
Arsenic	BRL	0.25	mg/kg wet							
Beryllium	BRL	0.25	mg/kg wet							
Cadmium	BRL	0.25	mg/kg wet							
Chromium	BRL	0.25	mg/kg wet							
Copper	BRL	0.50	mg/kg wet							
Lead	BRL	0.25	mg/kg wet							
Manganese	BRL	0.25	mg/kg wet							BH
Nickel	BRL	0.50	mg/kg wet							
Selenium	BRL	0.50	mg/kg wet							
Silver	BRL	0.25	mg/kg wet							
Thallium	BRL	0.50	mg/kg wet							
Zinc	BRL	2.5	mg/kg wet							
LCS (P6F0375-BS1)				Prepared: 06/20/16 Analyzed: 06/21/16						
Antimony	24.2	0.25	mg/kg wet	25.00		97	80-120			
Arsenic	24.2	0.25	mg/kg wet	25.00		97	80-120			
Beryllium	25.5	0.25	mg/kg wet	25.00		102	80-120			
Cadmium	24.3	0.25	mg/kg wet	25.00		97	80-120			
Chromium	25.3	0.25	mg/kg wet	25.00		101	80-120			
Copper	25.8	0.50	mg/kg wet	25.00		103	80-120			
Lead	23.9	0.25	mg/kg wet	25.00		96	80-120			
Manganese	25.3	0.25	mg/kg wet	25.00		101	80-120			
Nickel	24.2	0.50	mg/kg wet	25.00		97	80-120			
Selenium	24.0	0.50	mg/kg wet	25.00		96	80-120			
Silver	9.68	0.25	mg/kg wet	10.00		97	80-120			
Thallium	24.1	0.50	mg/kg wet	25.00		96	80-120			
Zinc	24.3	2.5	mg/kg wet	25.00		97	80-120			

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615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Reliable Buff Facility

Prism Work Order: 6060246
Time Submitted: 6/14/2016 11:50:00AM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0375 - 3050B										
Matrix Spike (P6F0375-MS1)	**Source: 6060246-01**		Prepared: 06/20/16	Analyzed: 06/21/16						
Antimony	9.40	0.32	mg/kg dry	31.76	BRL	30	75-125			MI
Arsenic	35.6	0.32	mg/kg dry	31.76	7.37	89	75-125			
Beryllium	30.2	0.32	mg/kg dry	31.76	0.748	93	75-125			
Cadmium	26.5	0.32	mg/kg dry	31.76	0.0198	83	75-125			
Chromium	59.9	0.32	mg/kg dry	31.76	30.6	92	75-125			
Copper	75.5	0.64	mg/kg dry	31.76	34.7	129	75-125			MI
Lead	42.0	0.32	mg/kg dry	31.76	12.6	93	75-125			
Manganese	262	0.32	mg/kg dry	31.76	157	329	75-125			MC
Nickel	45.6	0.64	mg/kg dry	31.76	15.6	95	75-125			
Selenium	24.9	0.64	mg/kg dry	31.76	BRL	78	75-125			
Silver	12.2	0.32	mg/kg dry	12.70	BRL	96	75-125			
Thallium	24.4	0.64	mg/kg dry	31.76	BRL	77	75-125			
Zinc	77.3	3.2	mg/kg dry	31.76	39.6	119	75-125			
Matrix Spike Dup (P6F0375-MSD1)	**Source: 6060246-01**		Prepared: 06/20/16	Analyzed: 06/21/16						
Antimony	9.05	0.31	mg/kg dry	30.98	BRL	29	75-125	4	20	MI
Arsenic	37.0	0.31	mg/kg dry	30.98	7.37	96	75-125	4	20	
Beryllium	29.2	0.31	mg/kg dry	30.98	0.748	92	75-125	3	20	
Cadmium	25.2	0.31	mg/kg dry	30.98	0.0198	81	75-125	5	20	
Chromium	68.2	0.31	mg/kg dry	30.98	30.6	121	75-125	13	20	
Copper	75.8	0.62	mg/kg dry	30.98	34.7	133	75-125	0.3	20	MI
Lead	39.7	0.31	mg/kg dry	30.98	12.6	88	75-125	6	20	
Manganese	160	0.31	mg/kg dry	30.98	157	11	75-125	48	20	D, MC
Nickel	45.2	0.62	mg/kg dry	30.98	15.6	96	75-125	1	20	
Selenium	23.6	0.62	mg/kg dry	30.98	BRL	76	75-125	5	20	
Silver	11.7	0.31	mg/kg dry	12.39	BRL	94	75-125	5	20	
Thallium	23.0	0.62	mg/kg dry	30.98	BRL	74	75-125	6	20	M
Zinc	70.8	3.1	mg/kg dry	30.98	39.6	100	75-125	9	20	

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Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Reliable Buff Facility

Prism Work Order: 6060246
Time Submitted: 6/14/2016 11:50:00AM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0375 - 3050B										
Post Spike (P6F0375-PS1)		**Source: 6060246-01**		Prepared: 06/20/16 Analyzed: 06/21/16						
Antimony	0.803		mg/L	1.000	-0.00782	80	80-120			
Arsenic	1.06		mg/L	1.000	0.232	83	80-120			
Beryllium	0.877		mg/L	1.000	0.0236	85	80-120			
Cadmium	0.774		mg/L	1.000	0.000624	77	80-120			MI
Chromium	1.77		mg/L	1.000	0.965	81	80-120			
Copper	2.00		mg/L	1.000	1.09	91	80-120			
Lead	1.14		mg/L	1.000	0.397	75	80-120			MI
Manganese	5.62		mg/L	1.000	4.94	68	80-120			MC
Nickel	1.24		mg/L	1.000	0.490	75	80-120			MI
Selenium	0.777		mg/L	1.000	-0.0471	78	80-120			MI
Silver	0.345		mg/L	0.4000	-0.00485	86	80-120			
Thallium	0.720		mg/L	1.000	-0.0517	72	80-120			MI
Zinc	2.04		mg/L	1.000	1.25	79	80-120			MI
Batch P6F0431 - 7471B										
Blank (P6F0431-BLK1)				Prepared & Analyzed: 06/22/16						
Mercury	BRL	0.020	mg/kg wet							
LCS (P6F0431-BS1)				Prepared & Analyzed: 06/22/16						
Mercury	0.446	0.020	mg/kg wet	0.4167		107	80-120			
Matrix Spike (P6F0431-MS1)		**Source: 6060246-01**		Prepared & Analyzed: 06/22/16						
Mercury	0.477	0.024	mg/kg dry	0.5041	BRL	95	80-120			
Matrix Spike Dup (P6F0431-MSD1)		**Source: 6060246-01**		Prepared & Analyzed: 06/22/16						
Mercury	0.507	0.025	mg/kg dry	0.5122	BRL	99	80-120	6	20	

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Sample Extraction Data

Prep Method: Solids, Dry Weight

Lab Number	Batch	Initial	Final	Date/Time
6060246-01	P6F0314	30 g	30 g	06/15/16 15:58

Prep Method: 3546

Lab Number	Batch	Initial	Final	Date/Time
6060246-01	P6F0318	30.63 g	1 mL	06/16/16 10:45

Prep Method: 3050B

Lab Number	Batch	Initial	Final	Date/Time
6060246-01	P6F0375	2.03 g	50 mL	06/20/16 8:40
6060246-01	P6F0375	2.03 g	50 mL	06/20/16 8:40

Prep Method: 7471B

Lab Number	Batch	Initial	Final	Date/Time
6060246-01	P6F0431	0.62 g	50 mL	06/22/16 9:25

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
6060246-01	P6F0403	5.31 g	5 mL	06/17/16 9:24

Subcontracted Analyses

The following analyses were subcontracted to Analytical Environmental Services, Inc.

Lab Number	Analysis
6060246-01	Hexavalent Chromium (Sub)

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Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

ACCESS
ANALYTICAL, INC.

ANALYTICAL REPORT

CLIENT

Prism Laboratories
PO Box 240543
Charlotte NC 282240543

ATTENTION
Cara C. Rusmisell

PROJECT ID
6060246

LABORATORY REPORT NUMBER
1606E47

DATE
June 23, 2016

Primary Data Review By

CRKanhai

Chantelle Kanhai
Project Manager, AES

Secondary Data Review By

Ashley Amick

Project Manager, Access Analytical
aamick@axs-inc.com

PLEASE NOTE:

- **Unless otherwise noted, all analysis on this report performed at Analytical Environmental Services Inc. (AES Inc), 3080 Presidential Drive, Atlanta, GA 30340.**
- **AES is SCDHEC certified laboratory # 98016, NCDENR certified lab # 562, GA certified lab # FL-E87582, NELAP certified laboratory # E87582**
- Local support services for this project are provided by Access Analytical, Inc. Access Analytical is a representative of AES serving client in the SC/NC/GA areas. All questions regarding this report should be directed to your local Access Analytical representative at 803.781.4243 or toll fee at 883.315.4243

Your Lab's letterhead here...
Address City, St. Zip Phone/Fax

SUBCONTRACT ORDER

1206E47

Sending Laboratory:

Prism Laboratories, Inc.
P. O. Box 240543
Charlotte, NC 28224-0543
Phone: 800-529-6364
Fax: 704-525-0409

Project Manager: Cara C. Rusmisell

Subcontracted Laboratory:

Analytical Environmental Services, Inc.
3080 Presidential Parkway
Atlanta, GA 30340
Phone: (770) 457-8177
Fax: NA

Work Order: 6060246

Analysis	Due	Expires	Comments
Sample ID: 6060246-01 *Solid* *Sampled: 06/09/2016 09:45*			
Hexavalent Chromium (Sub)	06/24/2016	06/10/2016 09:45	

Containers Supplied:
4oz glass

5.0°

Released By — Date 6/14/16
Received By (FedEx) — Date 6/15/16 10:25AM

Analytical Environmental Services, Inc Date: 23-Jun-16

Client:	Prism Laboratories	**Client Sample ID:**	6060246-01
Lab Order	1606E47	**Tag Number:**	
Project Name:	6060246	**Collection Date:**	6/9/2016 9:45:00 AM
Lab ID:	1606E47-001A	**Matrix:**	Solid

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Hexavalent Chromium in Soil SW7196A					**(SW3060A)**				
Chromium, Hexavalent	BRL		0.662	2.41	mg/Kg-dry	225651	1	06/17/2016 08:00	JC
PERCENT MOISTURE D2216									
Percent Moisture	17.1		0	0	wt%	R319376	1	06/21/2016 10:00	JS

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not Detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	>	Greater than Result value
N	Analyte not NELAC certified	J	Estimated value detected below Reporting Limit
B	Analyte detected in the associated method blank	<	Less than Result value

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Accesu Work Order Number 1606E47

Checklist completed by [signature] 6/15/16
Signature Date

Carrier name: FedEx ✓ UPS __ Courier __ Client __ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes ✓ No __

Cooler #1 5.0° Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes __ No ✓

Proceed with Standard TAT as per project history? Yes ✓ No __ Not Applicable __

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes __ No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Aes_server\I\Sample Receipt\My Documents\COCs and pH Adjustment Sheet\Sample_Cooler_Recipt_Checklist_Rev1.rtf

Analytical Environmental Services, Inc

Date: 23-Jun-16

Client: Prism Laboratories
Project Name: 6060246
Workorder: 1606E47

ANALYTICAL QC SUMMARY REPORT

BatchID: 225651

Sample ID: **MB-225651** Client ID: Units: **mg/Kg** Prep Date: **06/17/2016** Run No: **319154**
SampleType: **MBLK** TestCode: **Hexavalent Chromium in Soil SW7196A** BatchID: **225651** Analysis Date: **06/17/2016** Seq No: **6885176**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	BRL	2.00									

Sample ID: **LCS-225651** Client ID: Units: **mg/Kg** Prep Date: **06/17/2016** Run No: **319154**
SampleType: **LCS** TestCode: **Hexavalent Chromium in Soil SW7196A** BatchID: **225651** Analysis Date: **06/17/2016** Seq No: **6885177**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	89.40	2.00	100.0		89.4	80	120				

Sample ID: **1606E02-001AMS** Client ID: Units: **mg/Kg-dry** Prep Date: **06/17/2016** Run No: **319154**
SampleType: **MS** TestCode: **Hexavalent Chromium in Soil SW7196A** BatchID: **225651** Analysis Date: **06/17/2016** Seq No: **6885192**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	95.94	2.14	107.2		89.5	75	125				

Sample ID: **1606E02-001AMSD** Client ID: Units: **mg/Kg-dry** Prep Date: **06/17/2016** Run No: **319154**
SampleType: **MSD** TestCode: **Hexavalent Chromium in Soil SW7196A** BatchID: **225651** Analysis Date: **06/17/2016** Seq No: **6885198**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	100.5	2.14	107.2		93.8	75	125	95.94	4.67	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

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Phone 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE____ OF ____ QUOTE # TO ENSURE PROPER BILLING: _____

Client Company Name: Hanover Engr, PA
Report To/Contact Name: K. Hagan
Reporting Address: 615 Brook Thomas Rd Monroe NC 28112
Phone: 704 764 5891 **Fax (Yes) (No):** _____
Email Address: Hanover@vadagmail.com
EDD Type: PDF ✓ Excel ____ Other ____
Site Location Name: Reliable Buff
Site Location Physical Address: _____

Project Name: Reliable Buff Facility
Short Hold Analysis: (Yes) (No) **UST Project:** (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: Hanover Engr, PA
Address: 615 Brook Thomas Rd Monroe NC 28112
Purchase Order No./Billing Reference 759-02
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☒ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?			✓
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: IRT11 Observed: 4.5°C / Corr: 4.5°C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC____ DoD____ FL____ NC ✓ SC____ OTHER____ N/A____
Water Chlorinated: YES___ NO ✓
Sample Iced Upon Collection: YES ✓ NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	8260	8260 SIM	Mn, Fe, Ca, Total Cr	Cu, Pb, Mn, Ni	Sb, Fe	Tl, Pb, Cr, Cr	REMARKS	PRISM LAB ID NO.
MW-1(0-2)	6/9/16	9:45	S	VOA	6	40ml	None	✓	✓	✓	✓	✓	✓		01

Sampler's Signature [signature] Sampled By (Print Name) Richard Hagan Affiliation Hanover Engr, PA

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
[signature]	[signature]	6-14-16	10:30
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature) [signature]	Received For Prism Laboratories By: [signature]	Date 6-14-16	11:50

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

☐ Fed Ex ☐ UPS ☐ Hand-delivered ☒ Prism Field Service ☐ Other____

COC Group No. PRL0246

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☒ NC ☐ SC
☐ ____	☐ ____	☐ ____	☐ ____	☐ ____	☐ ____	☐ ____	☐ ____	☐ ____

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

Attachment C
Groundwater Sample Analytical Results and Chain-of-Custody Records

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

NC Certification No. 402
NC Drinking Water Cert No. 37735
SC Certification No. 99012
FL NELAC Cert No. E87519
VA NELAC Cert No. 460211

Case Narrative

07/01/2016

Harmon Environmental, PA
Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Lab Submittal Date: 06/16/2016
Prism Work Order: 6060313

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

C. Rusmisell

Cara C. Rusmisell
Project Manager

C. Rusmisell

Reviewed By Cara C. Rusmisell
Project Manager

Data Qualifiers Key Reference:

L	Parameter reported with possible low bias. LCS recovery below the QC limit.
L2	LCSD recovery outside of the QC limits. LCS recovery within the limits. No further action taken.
M	Matrix spike outside of the control limits.
SR	Surrogate recovery outside the QC limits.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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Sample Receipt Summary

07/01/2016

Prism Work Order: 6060313

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
MW-1	6060313-01	Water	06/14/16	06/16/16
MW-3	6060313-02	Water	06/14/16	06/16/16
MW-2	6060313-03	Water	06/14/16	06/16/16

Samples were received in good condition at 2.7 degrees C unless otherwise noted.

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Summary of Detections

07/01/2016

Prism Work Order: 6060313

Prism ID	Client ID	Parameter	Method	Result	Units
6060313-01	MW-1	Chromium	*6010D	0.0054	mg/L
6060313-01	MW-1	Copper	*6010D	0.011	mg/L
6060313-01	MW-1	Lead	*6010D	0.0062	mg/L
6060313-01	MW-1	Manganese	*6010D	0.57	mg/L
6060313-02	MW-3	Chromium	*6010D	0.0074	mg/L
6060313-02	MW-3	Lead	*6010D	0.0070	mg/L
6060313-02	MW-3	Manganese	*6010D	0.11	mg/L
6060313-02	MW-3	cis-1,2-Dichloroethylene	*8260B	4.4	ug/L
6060313-02	MW-3	Tetrachloroethylene	*8260B	750	ug/L
6060313-02	MW-3	Trichloroethylene	*8260B	7.2	ug/L
6060313-03	MW-2	Chromium	*6010D	0.0076	mg/L
6060313-03	MW-2	Copper	*6010D	0.013	mg/L
6060313-03	MW-2	Lead	*6010D	0.0079	mg/L
6060313-03	MW-2	Manganese	*6010D	0.27	mg/L
6060313-03	MW-2	Zinc	*6010D	0.078	mg/L
6060313-03	MW-2	Tetrachloroethylene	*8260B	7.3	ug/L

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Laboratory Report

07/01/2016

Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Sample Matrix: Water

Client Sample ID: MW-1
Prism Sample ID: 6060313-01
Prism Work Order: 6060313
Time Collected: 06/14/16 10:30
Time Submitted: 06/16/16 15:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	1.8	1	*8270D	6/22/16 16:58	JMV	P6F0395
1,2-Dichlorobenzene	BRL	ug/L	10	1.6	1	*8270D	6/22/16 16:58	JMV	P6F0395
1,3-Dichlorobenzene	BRL	ug/L	10	1.9	1	*8270D	6/22/16 16:58	JMV	P6F0395
1,4-Dichlorobenzene	BRL	ug/L	10	1.6	1	*8270D	6/22/16 16:58	JMV	P6F0395
1-Methylnaphthalene	BRL	ug/L	10	2.6	1	*8270D	6/22/16 16:58	JMV	P6F0395
2,4,5-Trichlorophenol	BRL	ug/L	10	1.6	1	*8270D	6/22/16 16:58	JMV	P6F0395
2,4,6-Trichlorophenol	BRL	ug/L	10	1.8	1	*8270D	6/22/16 16:58	JMV	P6F0395
2,4-Dichlorophenol	BRL	ug/L	10	2.6	1	*8270D	6/22/16 16:58	JMV	P6F0395
2,4-Dimethylphenol	BRL	ug/L	10	3.4	1	*8270D	6/22/16 16:58	JMV	P6F0395
2,4-Dinitrophenol	BRL	ug/L	10	2.7	1	*8270D	6/22/16 16:58	JMV	P6F0395
2,4-Dinitrotoluene	BRL	ug/L	10	1.4	1	*8270D	6/22/16 16:58	JMV	P6F0395
2,6-Dinitrotoluene	BRL	ug/L	10	1.1	1	*8270D	6/22/16 16:58	JMV	P6F0395
2-Chloronaphthalene	BRL	ug/L	10	2.7	1	*8270D	6/22/16 16:58	JMV	P6F0395
2-Chlorophenol	BRL	ug/L	10	1.9	1	*8270D	6/22/16 16:58	JMV	P6F0395
2-Methylnaphthalene	BRL	ug/L	10	2.4	1	*8270D	6/22/16 16:58	JMV	P6F0395
2-Methylphenol	BRL	ug/L	10	1.8	1	*8270D	6/22/16 16:58	JMV	P6F0395
2-Nitroaniline	BRL	ug/L	10	1.4	1	*8270D	6/22/16 16:58	JMV	P6F0395
2-Nitrophenol	BRL	ug/L	10	2.4	1	*8270D	6/22/16 16:58	JMV	P6F0395
3,3'-Dichlorobenzidine	BRL	ug/L	10	1.4	1	*8270D	6/22/16 16:58	JMV	P6F0395
3/4-Methylphenol	BRL	ug/L	10	1.5	1	*8270D	6/22/16 16:58	JMV	P6F0395
3-Nitroaniline	BRL	ug/L	10	1.4	1	*8270D	6/22/16 16:58	JMV	P6F0395
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	1.4	1	*8270D	6/22/16 16:58	JMV	P6F0395
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.3	1	*8270D	6/22/16 16:58	JMV	P6F0395
4-Chloro-3-methylphenol	BRL	ug/L	10	2.4	1	*8270D	6/22/16 16:58	JMV	P6F0395
4-Chloroaniline	BRL	ug/L	10	2.4	1	*8270D	6/22/16 16:58	JMV	P6F0395
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.3	1	*8270D	6/22/16 16:58	JMV	P6F0395
4-Nitroaniline	BRL	ug/L	10	0.93	1	*8270D	6/22/16 16:58	JMV	P6F0395
4-Nitrophenol	BRL	ug/L	10	0.60	1	*8270D	6/22/16 16:58	JMV	P6F0395
Acenaphthene	BRL	ug/L	10	1.8	1	*8270D	6/22/16 16:58	JMV	P6F0395
Acenaphthylene	BRL	ug/L	10	2.0	1	*8270D	6/22/16 16:58	JMV	P6F0395
Aniline	BRL	ug/L	10	2.4	1	*8270D	6/22/16 16:58	JMV	P6F0395
Anthracene	BRL	ug/L	10	1.4	1	*8270D	6/22/16 16:58	JMV	P6F0395
Azobenzene	BRL	ug/L	10	1.8	1	*8270D	6/22/16 16:58	JMV	P6F0395
Benzo(a)anthracene	BRL	ug/L	10	1.4	1	*8270D	6/22/16 16:58	JMV	P6F0395
Benzo(a)pyrene	BRL	ug/L	10	1.4	1	*8270D	6/22/16 16:58	JMV	P6F0395
Benzo(b)fluoranthene	BRL	ug/L	10	1.1	1	*8270D	6/22/16 16:58	JMV	P6F0395
Benzo(g,h,i)perylene	BRL	ug/L	10	1.4	1	*8270D	6/22/16 16:58	JMV	P6F0395
Benzo(k)fluoranthene	BRL	ug/L	10	1.4	1	*8270D	6/22/16 16:58	JMV	P6F0395
Benzoic Acid	BRL	ug/L	100	4.7	1	*8270D	6/22/16 16:58	JMV	P6F0395
Benzyl alcohol	BRL	ug/L	10	2.1	1	*8270D	6/22/16 16:58	JMV	P6F0395
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.6	1	*8270D	6/22/16 16:58	JMV	P6F0395
Bis(2-Chloroethyl)ether	BRL	ug/L	10	2.3	1	*8270D	6/22/16 16:58	JMV	P6F0395

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Laboratory Report

07/01/2016

Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Sample Matrix: Water

Client Sample ID: MW-1
Prism Sample ID: 6060313-01
Prism Work Order: 6060313
Time Collected: 06/14/16 10:30
Time Submitted: 06/16/16 15:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.0	1	*8270D	6/22/16 16:58	JMV	P6F0395
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	1.3	1	*8270D	6/22/16 16:58	JMV	P6F0395
Butyl benzyl phthalate	BRL	ug/L	10	1.4	1	*8270D	6/22/16 16:58	JMV	P6F0395
Chrysene	BRL	ug/L	10	1.4	1	*8270D	6/22/16 16:58	JMV	P6F0395
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.2	1	*8270D	6/22/16 16:58	JMV	P6F0395
Dibenzofuran	BRL	ug/L	10	1.8	1	*8270D	6/22/16 16:58	JMV	P6F0395
Diethyl phthalate	BRL	ug/L	10	3.3	1	*8270D	6/22/16 16:58	JMV	P6F0395
Dimethyl phthalate	BRL	ug/L	10	1.4	1	*8270D	6/22/16 16:58	JMV	P6F0395
Di-n-butyl phthalate	BRL	ug/L	10	1.7	1	*8270D	6/22/16 16:58	JMV	P6F0395
Di-n-octyl phthalate	BRL	ug/L	10	1.3	1	*8270D	6/22/16 16:58	JMV	P6F0395
Fluoranthene	BRL	ug/L	10	1.7	1	*8270D	6/22/16 16:58	JMV	P6F0395
Fluorene	BRL	ug/L	10	1.7	1	*8270D	6/22/16 16:58	JMV	P6F0395
Hexachlorobenzene	BRL	ug/L	10	1.3	1	*8270D	6/22/16 16:58	JMV	P6F0395
Hexachlorobutadiene	BRL	ug/L	10	2.1	1	*8270D	6/22/16 16:58	JMV	P6F0395
Hexachlorocyclopentadiene	BRL	ug/L	10	1.7	1	*8270D	6/22/16 16:58	JMV	P6F0395
Hexachloroethane	BRL	ug/L	10	1.7	1	*8270D	6/22/16 16:58	JMV	P6F0395
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	3.9	1	*8270D	6/22/16 16:58	JMV	P6F0395
Isophorone	BRL	ug/L	10	2.5	1	*8270D	6/22/16 16:58	JMV	P6F0395
Naphthalene	BRL	ug/L	10	2.6	1	*8270D	6/22/16 16:58	JMV	P6F0395
Nitrobenzene	BRL	ug/L	10	2.6	1	*8270D	6/22/16 16:58	JMV	P6F0395
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.2	1	*8270D	6/22/16 16:58	JMV	P6F0395
N-Nitrosodiphenylamine	BRL	ug/L	10	1.3	1	*8270D	6/22/16 16:58	JMV	P6F0395
Pentachlorophenol	BRL	ug/L	10	1.2	1	*8270D	6/22/16 16:58	JMV	P6F0395
Phenanthrene	BRL	ug/L	10	1.5	1	*8270D	6/22/16 16:58	JMV	P6F0395
Phenol	BRL	ug/L	10	0.98	1	*8270D	6/22/16 16:58	JMV	P6F0395
Pyrene	BRL	ug/L	10	1.4	1	*8270D	6/22/16 16:58	JMV	P6F0395

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*97 %*	*43-140*
2-Fluorobiphenyl	*82 %*	*44-119*
2-Fluorophenol	*52 %*	*19-119*
Nitrobenzene-d5	*79 %*	*44-120*
Phenol-d5	*32 %*	*11-52*
Terphenyl-d14	*97 %*	*50-134*

Total Metals

Mercury	BRL	mg/L	0.00020	0.000030	1	*7470A	6/27/16 14:42	JAB	P6F0518
Antimony	BRL	mg/L	0.0050	0.00090	1	*6010D	6/21/16 17:51	BGM	P6F0398
Arsenic	BRL	mg/L	0.010	0.00070	1	*6010D	6/21/16 17:51	BGM	P6F0398
Beryllium	BRL	mg/L	0.0020	0.00010	1	*6010D	6/21/16 17:51	BGM	P6F0398
Cadmium	BRL	mg/L	0.0010	0.00010	1	*6010D	6/21/16 17:51	BGM	P6F0398
Chromium	**0.0054**	**mg/L**	**0.0050**	**0.00060**	**1**	***6010D**	**6/21/16 17:51**	**BGM**	**P6F0398**
Copper	**0.011**	**mg/L**	**0.010**	**0.0019**	**1**	***6010D**	**6/21/16 17:51**	**BGM**	**P6F0398**
Lead	**0.0062**	**mg/L**	**0.0050**	**0.0013**	**1**	***6010D**	**6/21/16 17:51**	**BGM**	**P6F0398**
Manganese	**0.57**	**mg/L**	**0.010**	**0.0016**	**1**	***6010D**	**6/21/16 17:51**	**BGM**	**P6F0398**

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Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Sample Matrix: Water

Client Sample ID: MW-1
Prism Sample ID: 6060313-01
Prism Work Order: 6060313
Time Collected: 06/14/16 10:30
Time Submitted: 06/16/16 15:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Nickel	BRL	mg/L	0.010	0.00040	1	*6010D	6/21/16 17:51	BGM	P6F0398
Selenium	BRL	mg/L	0.020	0.0032	1	*6010D	6/21/16 17:51	BGM	P6F0398
Silver	BRL	mg/L	0.0050	0.00020	1	*6010D	6/21/16 17:51	BGM	P6F0398
Thallium	BRL	mg/L	0.010	0.0013	1	*6010D	6/21/16 17:51	BGM	P6F0398
Zinc	BRL	mg/L	0.030	0.0033	1	*6010D	6/21/16 17:51	BGM	P6F0398
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	*8260B	6/23/16 16:49	KDM	P6F0498
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	*8260B	6/23/16 16:49	KDM	P6F0498
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	*8260B	6/23/16 16:49	KDM	P6F0498
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	6/23/16 16:49	KDM	P6F0498
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	*8260B	6/23/16 16:49	KDM	P6F0498
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	*8260B	6/23/16 16:49	KDM	P6F0498
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	*8260B	6/23/16 16:49	KDM	P6F0498
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	*8260B	6/23/16 16:49	KDM	P6F0498
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	*8260B	6/23/16 16:49	KDM	P6F0498
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	*8260B	6/23/16 16:49	KDM	P6F0498
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	*8260B	6/23/16 16:49	KDM	P6F0498
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	*8260B	6/23/16 16:49	KDM	P6F0498
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	*8260B	6/23/16 16:49	KDM	P6F0498
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	6/23/16 16:49	KDM	P6F0498
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	6/23/16 16:49	KDM	P6F0498
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	6/23/16 16:49	KDM	P6F0498
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	6/23/16 16:49	KDM	P6F0498
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	*8260B	6/23/16 16:49	KDM	P6F0498
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	*8260B	6/23/16 16:49	KDM	P6F0498
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	*8260B	6/23/16 16:49	KDM	P6F0498
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	6/23/16 16:49	KDM	P6F0498
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	*8260B	6/23/16 16:49	KDM	P6F0498
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	*8260B	6/23/16 16:49	KDM	P6F0498
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	*8260B	6/23/16 16:49	KDM	P6F0498
Acetone	BRL	ug/L	5.0	0.31	1	*8260B	6/23/16 16:49	KDM	P6F0498
Acrolein	BRL	ug/L	20	0.20	1	*8260B	6/23/16 16:49	KDM	P6F0498
Acrylonitrile	BRL	ug/L	20	0.20	1	*8260B	6/23/16 16:49	KDM	P6F0498
Benzene	BRL	ug/L	0.50	0.048	1	*8260B	6/23/16 16:49	KDM	P6F0498
Bromobenzene	BRL	ug/L	0.50	0.057	1	*8260B	6/23/16 16:49	KDM	P6F0498
Bromochloromethane	BRL	ug/L	0.50	0.14	1	*8260B	6/23/16 16:49	KDM	P6F0498
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	6/23/16 16:49	KDM	P6F0498
Bromoform	BRL	ug/L	1.0	0.040	1	*8260B	6/23/16 16:49	KDM	P6F0498
Bromomethane	BRL	ug/L	1.0	0.18	1	*8260B	6/23/16 16:49	KDM	P6F0498
Carbon disulfide	BRL	ug/L	5.0	0.075	1	*8260B	6/23/16 16:49	KDM	P6F0498
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	*8260B	6/23/16 16:49	KDM	P6F0498
Chlorobenzene	BRL	ug/L	0.50	0.062	1	*8260B	6/23/16 16:49	KDM	P6F0498
Chloroethane	BRL	ug/L	0.50	0.22	1	*8260B	6/23/16 16:49	KDM	P6F0498

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Laboratory Report

07/01/2016

Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Sample Matrix: Water

Client Sample ID: MW-1
Prism Sample ID: 6060313-01
Prism Work Order: 6060313
Time Collected: 06/14/16 10:30
Time Submitted: 06/16/16 15:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloroform	BRL	ug/L	0.50	0.076	1	*8260B	6/23/16 16:49	KDM	P6F0498
Chloromethane	BRL	ug/L	0.50	0.079	1	*8260B	6/23/16 16:49	KDM	P6F0498
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	*8260B	6/23/16 16:49	KDM	P6F0498
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	*8260B	6/23/16 16:49	KDM	P6F0498
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	*8260B	6/23/16 16:49	KDM	P6F0498
Dibromomethane	BRL	ug/L	0.50	0.065	1	*8260B	6/23/16 16:49	KDM	P6F0498
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	6/23/16 16:49	KDM	P6F0498
Ethylbenzene	BRL	ug/L	0.50	0.061	1	*8260B	6/23/16 16:49	KDM	P6F0498
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	*8260B	6/23/16 16:49	KDM	P6F0498
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	*8260B	6/23/16 16:49	KDM	P6F0498
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	*8260B	6/23/16 16:49	KDM	P6F0498
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	*8260B	6/23/16 16:49	KDM	P6F0498
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	*8260B	6/23/16 16:49	KDM	P6F0498
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	*8260B	6/23/16 16:49	KDM	P6F0498
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	*8260B	6/23/16 16:49	KDM	P6F0498
Methylene Chloride	BRL	ug/L	1.0	0.083	1	*8260B	6/23/16 16:49	KDM	P6F0498
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	*8260B	6/23/16 16:49	KDM	P6F0498
Naphthalene	BRL	ug/L	1.0	0.19	1	*8260B	6/23/16 16:49	KDM	P6F0498
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	*8260B	6/23/16 16:49	KDM	P6F0498
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	6/23/16 16:49	KDM	P6F0498
o-Xylene	BRL	ug/L	0.50	0.044	1	*8260B	6/23/16 16:49	KDM	P6F0498
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	6/23/16 16:49	KDM	P6F0498
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	6/23/16 16:49	KDM	P6F0498
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	*8260B	6/23/16 16:49	KDM	P6F0498
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	*8260B	6/23/16 16:49	KDM	P6F0498
Toluene	BRL	ug/L	0.50	0.044	1	*8260B	6/23/16 16:49	KDM	P6F0498
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	*8260B	6/23/16 16:49	KDM	P6F0498
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	*8260B	6/23/16 16:49	KDM	P6F0498
Trichloroethylene	BRL	ug/L	0.50	0.078	1	*8260B	6/23/16 16:49	KDM	P6F0498
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	*8260B	6/23/16 16:49	KDM	P6F0498
Vinyl acetate	BRL	ug/L	2.0	0.060	1	*8260B	6/23/16 16:49	KDM	P6F0498
Vinyl chloride	BRL	ug/L	0.50	0.097	1	*8260B	6/23/16 16:49	KDM	P6F0498

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*110 %*	*80-124*
Dibromofluoromethane	*92 %*	*75-129*
Toluene-d8	*101 %*	*77-123*

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Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Sample Matrix: Water

Client Sample ID: MW-3
Prism Sample ID: 6060313-02
Prism Work Order: 6060313
Time Collected: 06/14/16 10:50
Time Submitted: 06/16/16 15:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	1.8	1	*8270D	6/22/16 16:35	JMV	P6F0395
1,2-Dichlorobenzene	BRL	ug/L	10	1.6	1	*8270D	6/22/16 16:35	JMV	P6F0395
1,3-Dichlorobenzene	BRL	ug/L	10	1.9	1	*8270D	6/22/16 16:35	JMV	P6F0395
1,4-Dichlorobenzene	BRL	ug/L	10	1.6	1	*8270D	6/22/16 16:35	JMV	P6F0395
1-Methylnaphthalene	BRL	ug/L	10	2.6	1	*8270D	6/22/16 16:35	JMV	P6F0395
2,4,5-Trichlorophenol	BRL	ug/L	10	1.6	1	*8270D	6/22/16 16:35	JMV	P6F0395
2,4,6-Trichlorophenol	BRL	ug/L	10	1.8	1	*8270D	6/22/16 16:35	JMV	P6F0395
2,4-Dichlorophenol	BRL	ug/L	10	2.6	1	*8270D	6/22/16 16:35	JMV	P6F0395
2,4-Dimethylphenol	BRL	ug/L	10	3.4	1	*8270D	6/22/16 16:35	JMV	P6F0395
2,4-Dinitrophenol	BRL	ug/L	10	2.7	1	*8270D	6/22/16 16:35	JMV	P6F0395
2,4-Dinitrotoluene	BRL	ug/L	10	1.4	1	*8270D	6/22/16 16:35	JMV	P6F0395
2,6-Dinitrotoluene	BRL	ug/L	10	1.1	1	*8270D	6/22/16 16:35	JMV	P6F0395
2-Chloronaphthalene	BRL	ug/L	10	2.7	1	*8270D	6/22/16 16:35	JMV	P6F0395
2-Chlorophenol	BRL	ug/L	10	1.9	1	*8270D	6/22/16 16:35	JMV	P6F0395
2-Methylnaphthalene	BRL	ug/L	10	2.4	1	*8270D	6/22/16 16:35	JMV	P6F0395
2-Methylphenol	BRL	ug/L	10	1.8	1	*8270D	6/22/16 16:35	JMV	P6F0395
2-Nitroaniline	BRL	ug/L	10	1.4	1	*8270D	6/22/16 16:35	JMV	P6F0395
2-Nitrophenol	BRL	ug/L	10	2.4	1	*8270D	6/22/16 16:35	JMV	P6F0395
3,3'-Dichlorobenzidine	BRL	ug/L	10	1.4	1	*8270D	6/22/16 16:35	JMV	P6F0395
3/4-Methylphenol	BRL	ug/L	10	1.5	1	*8270D	6/22/16 16:35	JMV	P6F0395
3-Nitroaniline	BRL	ug/L	10	1.4	1	*8270D	6/22/16 16:35	JMV	P6F0395
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	1.4	1	*8270D	6/22/16 16:35	JMV	P6F0395
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.3	1	*8270D	6/22/16 16:35	JMV	P6F0395
4-Chloro-3-methylphenol	BRL	ug/L	10	2.4	1	*8270D	6/22/16 16:35	JMV	P6F0395
4-Chloroaniline	BRL	ug/L	10	2.4	1	*8270D	6/22/16 16:35	JMV	P6F0395
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.3	1	*8270D	6/22/16 16:35	JMV	P6F0395
4-Nitroaniline	BRL	ug/L	10	0.93	1	*8270D	6/22/16 16:35	JMV	P6F0395
4-Nitrophenol	BRL	ug/L	10	0.60	1	*8270D	6/22/16 16:35	JMV	P6F0395
Acenaphthene	BRL	ug/L	10	1.8	1	*8270D	6/22/16 16:35	JMV	P6F0395
Acenaphthylene	BRL	ug/L	10	2.0	1	*8270D	6/22/16 16:35	JMV	P6F0395
Aniline	BRL	ug/L	10	2.4	1	*8270D	6/22/16 16:35	JMV	P6F0395
Anthracene	BRL	ug/L	10	1.4	1	*8270D	6/22/16 16:35	JMV	P6F0395
Azobenzene	BRL	ug/L	10	1.8	1	*8270D	6/22/16 16:35	JMV	P6F0395
Benzo(a)anthracene	BRL	ug/L	10	1.4	1	*8270D	6/22/16 16:35	JMV	P6F0395
Benzo(a)pyrene	BRL	ug/L	10	1.4	1	*8270D	6/22/16 16:35	JMV	P6F0395
Benzo(b)fluoranthene	BRL	ug/L	10	1.1	1	*8270D	6/22/16 16:35	JMV	P6F0395
Benzo(g,h,i)perylene	BRL	ug/L	10	1.4	1	*8270D	6/22/16 16:35	JMV	P6F0395
Benzo(k)fluoranthene	BRL	ug/L	10	1.4	1	*8270D	6/22/16 16:35	JMV	P6F0395
Benzoic Acid	BRL	ug/L	100	4.7	1	*8270D	6/22/16 16:35	JMV	P6F0395
Benzyl alcohol	BRL	ug/L	10	2.1	1	*8270D	6/22/16 16:35	JMV	P6F0395
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.6	1	*8270D	6/22/16 16:35	JMV	P6F0395
Bis(2-Chloroethyl)ether	BRL	ug/L	10	2.3	1	*8270D	6/22/16 16:35	JMV	P6F0395

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Laboratory Report

07/01/2016

Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Sample Matrix: Water

Client Sample ID: MW-3
Prism Sample ID: 6060313-02
Prism Work Order: 6060313
Time Collected: 06/14/16 10:50
Time Submitted: 06/16/16 15:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.0	1	*8270D	6/22/16 16:35	JMV	P6F0395
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	1.3	1	*8270D	6/22/16 16:35	JMV	P6F0395
Butyl benzyl phthalate	BRL	ug/L	10	1.4	1	*8270D	6/22/16 16:35	JMV	P6F0395
Chrysene	BRL	ug/L	10	1.4	1	*8270D	6/22/16 16:35	JMV	P6F0395
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.2	1	*8270D	6/22/16 16:35	JMV	P6F0395
Dibenzofuran	BRL	ug/L	10	1.8	1	*8270D	6/22/16 16:35	JMV	P6F0395
Diethyl phthalate	BRL	ug/L	10	3.3	1	*8270D	6/22/16 16:35	JMV	P6F0395
Dimethyl phthalate	BRL	ug/L	10	1.4	1	*8270D	6/22/16 16:35	JMV	P6F0395
Di-n-butyl phthalate	BRL	ug/L	10	1.7	1	*8270D	6/22/16 16:35	JMV	P6F0395
Di-n-octyl phthalate	BRL	ug/L	10	1.3	1	*8270D	6/22/16 16:35	JMV	P6F0395
Fluoranthene	BRL	ug/L	10	1.7	1	*8270D	6/22/16 16:35	JMV	P6F0395
Fluorene	BRL	ug/L	10	1.7	1	*8270D	6/22/16 16:35	JMV	P6F0395
Hexachlorobenzene	BRL	ug/L	10	1.3	1	*8270D	6/22/16 16:35	JMV	P6F0395
Hexachlorobutadiene	BRL	ug/L	10	2.1	1	*8270D	6/22/16 16:35	JMV	P6F0395
Hexachlorocyclopentadiene	BRL	ug/L	10	1.7	1	*8270D	6/22/16 16:35	JMV	P6F0395
Hexachloroethane	BRL	ug/L	10	1.7	1	*8270D	6/22/16 16:35	JMV	P6F0395
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	3.9	1	*8270D	6/22/16 16:35	JMV	P6F0395
Isophorone	BRL	ug/L	10	2.5	1	*8270D	6/22/16 16:35	JMV	P6F0395
Naphthalene	BRL	ug/L	10	2.6	1	*8270D	6/22/16 16:35	JMV	P6F0395
Nitrobenzene	BRL	ug/L	10	2.6	1	*8270D	6/22/16 16:35	JMV	P6F0395
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.2	1	*8270D	6/22/16 16:35	JMV	P6F0395
N-Nitrosodiphenylamine	BRL	ug/L	10	1.3	1	*8270D	6/22/16 16:35	JMV	P6F0395
Pentachlorophenol	BRL	ug/L	10	1.2	1	*8270D	6/22/16 16:35	JMV	P6F0395
Phenanthrene	BRL	ug/L	10	1.5	1	*8270D	6/22/16 16:35	JMV	P6F0395
Phenol	BRL	ug/L	10	0.98	1	*8270D	6/22/16 16:35	JMV	P6F0395
Pyrene	BRL	ug/L	10	1.4	1	*8270D	6/22/16 16:35	JMV	P6F0395

Surrogate	Recovery	Control Limits	
2,4,6-Tribromophenol	*57 %*	*43-140*	
2-Fluorobiphenyl	*43 %*	*44-119*	*SR*
2-Fluorophenol	*26 %*	*19-119*	
Nitrobenzene-d5	*39 %*	*44-120*	*SR*
Phenol-d5	*17 %*	*11-52*	
Terphenyl-d14	*62 %*	*50-134*	

Total Metals

Mercury	BRL	mg/L	0.00020	0.000030	1	*7470A	6/27/16 14:46	JAB	P6F0518
Antimony	BRL	mg/L	0.0050	0.00090	1	*6010D	6/21/16 18:15	BGM	P6F0398
Arsenic	BRL	mg/L	0.010	0.00070	1	*6010D	6/21/16 18:15	BGM	P6F0398
Beryllium	BRL	mg/L	0.0020	0.00010	1	*6010D	6/21/16 18:15	BGM	P6F0398
Cadmium	BRL	mg/L	0.0010	0.00010	1	*6010D	6/21/16 18:15	BGM	P6F0398
Chromium	**0.0074**	**mg/L**	**0.0050**	**0.00060**	**1**	***6010D**	**6/21/16 18:15**	**BGM**	**P6F0398**
Copper	BRL	mg/L	0.010	0.0019	1	*6010D	6/21/16 18:15	BGM	P6F0398
Lead	**0.0070**	**mg/L**	**0.0050**	**0.0013**	**1**	***6010D**	**6/21/16 18:15**	**BGM**	**P6F0398**
Manganese	**0.11**	**mg/L**	**0.010**	**0.0016**	**1**	***6010D**	**6/21/16 18:15**	**BGM**	**P6F0398**

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Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Sample Matrix: Water

Client Sample ID: MW-3
Prism Sample ID: 6060313-02
Prism Work Order: 6060313
Time Collected: 06/14/16 10:50
Time Submitted: 06/16/16 15:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Nickel	BRL	mg/L	0.010	0.00040	1	*6010D	6/21/16 18:15	BGM	P6F0398
Selenium	BRL	mg/L	0.020	0.0032	1	*6010D	6/21/16 18:15	BGM	P6F0398
Silver	BRL	mg/L	0.0050	0.00020	1	*6010D	6/21/16 18:15	BGM	P6F0398
Thallium	BRL	mg/L	0.010	0.0013	1	*6010D	6/21/16 18:15	BGM	P6F0398
Zinc	BRL	mg/L	0.030	0.0033	1	*6010D	6/21/16 18:15	BGM	P6F0398
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	*8260B	6/23/16 23:38	KDM	P6F0498
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	*8260B	6/23/16 23:38	KDM	P6F0498
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	*8260B	6/23/16 23:38	KDM	P6F0498
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	6/23/16 23:38	KDM	P6F0498
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	*8260B	6/23/16 23:38	KDM	P6F0498
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	*8260B	6/23/16 23:38	KDM	P6F0498
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	*8260B	6/23/16 23:38	KDM	P6F0498
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	*8260B	6/23/16 23:38	KDM	P6F0498
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	*8260B	6/23/16 23:38	KDM	P6F0498
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	*8260B	6/23/16 23:38	KDM	P6F0498
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	*8260B	6/23/16 23:38	KDM	P6F0498
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	*8260B	6/23/16 23:38	KDM	P6F0498
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	*8260B	6/23/16 23:38	KDM	P6F0498
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	6/23/16 23:38	KDM	P6F0498
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	6/23/16 23:38	KDM	P6F0498
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	6/23/16 23:38	KDM	P6F0498
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	6/23/16 23:38	KDM	P6F0498
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	*8260B	6/23/16 23:38	KDM	P6F0498
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	*8260B	6/23/16 23:38	KDM	P6F0498
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	*8260B	6/23/16 23:38	KDM	P6F0498
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	6/23/16 23:38	KDM	P6F0498
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	*8260B	6/23/16 23:38	KDM	P6F0498
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	*8260B	6/23/16 23:38	KDM	P6F0498
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	*8260B	6/23/16 23:38	KDM	P6F0498
Acetone	BRL	ug/L	5.0	0.31	1	*8260B	6/23/16 23:38	KDM	P6F0498
Acrolein	BRL	ug/L	20	0.20	1	*8260B	6/23/16 23:38	KDM	P6F0498
Acrylonitrile	BRL	ug/L	20	0.20	1	*8260B	6/23/16 23:38	KDM	P6F0498
Benzene	BRL	ug/L	0.50	0.048	1	*8260B	6/23/16 23:38	KDM	P6F0498
Bromobenzene	BRL	ug/L	0.50	0.057	1	*8260B	6/23/16 23:38	KDM	P6F0498
Bromochloromethane	BRL	ug/L	0.50	0.14	1	*8260B	6/23/16 23:38	KDM	P6F0498
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	6/23/16 23:38	KDM	P6F0498
Bromoform	BRL	ug/L	1.0	0.040	1	*8260B	6/23/16 23:38	KDM	P6F0498
Bromomethane	BRL	ug/L	1.0	0.18	1	*8260B	6/23/16 23:38	KDM	P6F0498
Carbon disulfide	BRL	ug/L	5.0	0.075	1	*8260B	6/23/16 23:38	KDM	P6F0498
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	*8260B	6/23/16 23:38	KDM	P6F0498
Chlorobenzene	BRL	ug/L	0.50	0.062	1	*8260B	6/23/16 23:38	KDM	P6F0498
Chloroethane	BRL	ug/L	0.50	0.22	1	*8260B	6/23/16 23:38	KDM	P6F0498

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Laboratory Report

07/01/2016

Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Sample Matrix: Water

Client Sample ID: MW-3
Prism Sample ID: 6060313-02
Prism Work Order: 6060313
Time Collected: 06/14/16 10:50
Time Submitted: 06/16/16 15:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloroform	BRL	ug/L	0.50	0.076	1	*8260B	6/23/16 23:38	KDM	P6F0498
Chloromethane	BRL	ug/L	0.50	0.079	1	*8260B	6/23/16 23:38	KDM	P6F0498
cis-1,2-Dichloroethylene	**4.4**	**ug/L**	**0.50**	**0.056**	**1**	***8260B**	**6/23/16 23:38**	**KDM**	**P6F0498**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	*8260B	6/23/16 23:38	KDM	P6F0498
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	*8260B	6/23/16 23:38	KDM	P6F0498
Dibromomethane	BRL	ug/L	0.50	0.065	1	*8260B	6/23/16 23:38	KDM	P6F0498
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	6/23/16 23:38	KDM	P6F0498
Ethylbenzene	BRL	ug/L	0.50	0.061	1	*8260B	6/23/16 23:38	KDM	P6F0498
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	*8260B	6/23/16 23:38	KDM	P6F0498
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	*8260B	6/23/16 23:38	KDM	P6F0498
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	*8260B	6/23/16 23:38	KDM	P6F0498
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	*8260B	6/23/16 23:38	KDM	P6F0498
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	*8260B	6/23/16 23:38	KDM	P6F0498
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	*8260B	6/23/16 23:38	KDM	P6F0498
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	*8260B	6/23/16 23:38	KDM	P6F0498
Methylene Chloride	BRL	ug/L	1.0	0.083	1	*8260B	6/23/16 23:38	KDM	P6F0498
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	*8260B	6/23/16 23:38	KDM	P6F0498
Naphthalene	BRL	ug/L	1.0	0.19	1	*8260B	6/23/16 23:38	KDM	P6F0498
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	*8260B	6/23/16 23:38	KDM	P6F0498
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	6/23/16 23:38	KDM	P6F0498
o-Xylene	BRL	ug/L	0.50	0.044	1	*8260B	6/23/16 23:38	KDM	P6F0498
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	6/23/16 23:38	KDM	P6F0498
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	6/23/16 23:38	KDM	P6F0498
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	*8260B	6/23/16 23:38	KDM	P6F0498
Tetrachloroethylene	**750**	**ug/L**	**5.0**	**0.98**	**10**	***8260B**	**6/24/16 0:03**	**KDM**	**P6F0498**
Toluene	BRL	ug/L	0.50	0.044	1	*8260B	6/23/16 23:38	KDM	P6F0498
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	*8260B	6/23/16 23:38	KDM	P6F0498
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	*8260B	6/23/16 23:38	KDM	P6F0498
Trichloroethylene	**7.2**	**ug/L**	**0.50**	**0.078**	**1**	***8260B**	**6/23/16 23:38**	**KDM**	**P6F0498**
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	*8260B	6/23/16 23:38	KDM	P6F0498
Vinyl acetate	BRL	ug/L	2.0	0.060	1	*8260B	6/23/16 23:38	KDM	P6F0498
Vinyl chloride	BRL	ug/L	0.50	0.097	1	*8260B	6/23/16 23:38	KDM	P6F0498

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*109 %*	*80-124*
Dibromofluoromethane	*91 %*	*75-129*
Toluene-d8	*99 %*	*77-123*

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Laboratory Report

07/01/2016

Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Sample Matrix: Water

Client Sample ID: MW-2
Prism Sample ID: 6060313-03
Prism Work Order: 6060313
Time Collected: 06/14/16 11:10
Time Submitted: 06/16/16 15:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	1.8	1	*8270D	6/22/16 17:21	JMV	P6F0395
1,2-Dichlorobenzene	BRL	ug/L	10	1.6	1	*8270D	6/22/16 17:21	JMV	P6F0395
1,3-Dichlorobenzene	BRL	ug/L	10	1.9	1	*8270D	6/22/16 17:21	JMV	P6F0395
1,4-Dichlorobenzene	BRL	ug/L	10	1.6	1	*8270D	6/22/16 17:21	JMV	P6F0395
1-Methylnaphthalene	BRL	ug/L	10	2.6	1	*8270D	6/22/16 17:21	JMV	P6F0395
2,4,5-Trichlorophenol	BRL	ug/L	10	1.6	1	*8270D	6/22/16 17:21	JMV	P6F0395
2,4,6-Trichlorophenol	BRL	ug/L	10	1.8	1	*8270D	6/22/16 17:21	JMV	P6F0395
2,4-Dichlorophenol	BRL	ug/L	10	2.6	1	*8270D	6/22/16 17:21	JMV	P6F0395
2,4-Dimethylphenol	BRL	ug/L	10	3.4	1	*8270D	6/22/16 17:21	JMV	P6F0395
2,4-Dinitrophenol	BRL	ug/L	10	2.7	1	*8270D	6/22/16 17:21	JMV	P6F0395
2,4-Dinitrotoluene	BRL	ug/L	10	1.4	1	*8270D	6/22/16 17:21	JMV	P6F0395
2,6-Dinitrotoluene	BRL	ug/L	10	1.1	1	*8270D	6/22/16 17:21	JMV	P6F0395
2-Chloronaphthalene	BRL	ug/L	10	2.7	1	*8270D	6/22/16 17:21	JMV	P6F0395
2-Chlorophenol	BRL	ug/L	10	1.9	1	*8270D	6/22/16 17:21	JMV	P6F0395
2-Methylnaphthalene	BRL	ug/L	10	2.4	1	*8270D	6/22/16 17:21	JMV	P6F0395
2-Methylphenol	BRL	ug/L	10	1.8	1	*8270D	6/22/16 17:21	JMV	P6F0395
2-Nitroaniline	BRL	ug/L	10	1.4	1	*8270D	6/22/16 17:21	JMV	P6F0395
2-Nitrophenol	BRL	ug/L	10	2.4	1	*8270D	6/22/16 17:21	JMV	P6F0395
3,3'-Dichlorobenzidine	BRL	ug/L	10	1.4	1	*8270D	6/22/16 17:21	JMV	P6F0395
3/4-Methylphenol	BRL	ug/L	10	1.5	1	*8270D	6/22/16 17:21	JMV	P6F0395
3-Nitroaniline	BRL	ug/L	10	1.4	1	*8270D	6/22/16 17:21	JMV	P6F0395
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	1.4	1	*8270D	6/22/16 17:21	JMV	P6F0395
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.3	1	*8270D	6/22/16 17:21	JMV	P6F0395
4-Chloro-3-methylphenol	BRL	ug/L	10	2.4	1	*8270D	6/22/16 17:21	JMV	P6F0395
4-Chloroaniline	BRL	ug/L	10	2.4	1	*8270D	6/22/16 17:21	JMV	P6F0395
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.3	1	*8270D	6/22/16 17:21	JMV	P6F0395
4-Nitroaniline	BRL	ug/L	10	0.93	1	*8270D	6/22/16 17:21	JMV	P6F0395
4-Nitrophenol	BRL	ug/L	10	0.60	1	*8270D	6/22/16 17:21	JMV	P6F0395
Acenaphthene	BRL	ug/L	10	1.8	1	*8270D	6/22/16 17:21	JMV	P6F0395
Acenaphthylene	BRL	ug/L	10	2.0	1	*8270D	6/22/16 17:21	JMV	P6F0395
Aniline	BRL	ug/L	10	2.4	1	*8270D	6/22/16 17:21	JMV	P6F0395
Anthracene	BRL	ug/L	10	1.4	1	*8270D	6/22/16 17:21	JMV	P6F0395
Azobenzene	BRL	ug/L	10	1.8	1	*8270D	6/22/16 17:21	JMV	P6F0395
Benzo(a)anthracene	BRL	ug/L	10	1.4	1	*8270D	6/22/16 17:21	JMV	P6F0395
Benzo(a)pyrene	BRL	ug/L	10	1.4	1	*8270D	6/22/16 17:21	JMV	P6F0395
Benzo(b)fluoranthene	BRL	ug/L	10	1.1	1	*8270D	6/22/16 17:21	JMV	P6F0395
Benzo(g,h,i)perylene	BRL	ug/L	10	1.4	1	*8270D	6/22/16 17:21	JMV	P6F0395
Benzo(k)fluoranthene	BRL	ug/L	10	1.4	1	*8270D	6/22/16 17:21	JMV	P6F0395
Benzoic Acid	BRL	ug/L	100	4.7	1	*8270D	6/22/16 17:21	JMV	P6F0395
Benzyl alcohol	BRL	ug/L	10	2.1	1	*8270D	6/22/16 17:21	JMV	P6F0395
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.6	1	*8270D	6/22/16 17:21	JMV	P6F0395
Bis(2-Chloroethyl)ether	BRL	ug/L	10	2.3	1	*8270D	6/22/16 17:21	JMV	P6F0395

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Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Sample Matrix: Water

Client Sample ID: MW-2
Prism Sample ID: 6060313-03
Prism Work Order: 6060313
Time Collected: 06/14/16 11:10
Time Submitted: 06/16/16 15:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.0	1	*8270D	6/22/16 17:21	JMV	P6F0395
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	1.3	1	*8270D	6/22/16 17:21	JMV	P6F0395
Butyl benzyl phthalate	BRL	ug/L	10	1.4	1	*8270D	6/22/16 17:21	JMV	P6F0395
Chrysene	BRL	ug/L	10	1.4	1	*8270D	6/22/16 17:21	JMV	P6F0395
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.2	1	*8270D	6/22/16 17:21	JMV	P6F0395
Dibenzofuran	BRL	ug/L	10	1.8	1	*8270D	6/22/16 17:21	JMV	P6F0395
Diethyl phthalate	BRL	ug/L	10	3.3	1	*8270D	6/22/16 17:21	JMV	P6F0395
Dimethyl phthalate	BRL	ug/L	10	1.4	1	*8270D	6/22/16 17:21	JMV	P6F0395
Di-n-butyl phthalate	BRL	ug/L	10	1.7	1	*8270D	6/22/16 17:21	JMV	P6F0395
Di-n-octyl phthalate	BRL	ug/L	10	1.3	1	*8270D	6/22/16 17:21	JMV	P6F0395
Fluoranthene	BRL	ug/L	10	1.7	1	*8270D	6/22/16 17:21	JMV	P6F0395
Fluorene	BRL	ug/L	10	1.7	1	*8270D	6/22/16 17:21	JMV	P6F0395
Hexachlorobenzene	BRL	ug/L	10	1.3	1	*8270D	6/22/16 17:21	JMV	P6F0395
Hexachlorobutadiene	BRL	ug/L	10	2.1	1	*8270D	6/22/16 17:21	JMV	P6F0395
Hexachlorocyclopentadiene	BRL	ug/L	10	1.7	1	*8270D	6/22/16 17:21	JMV	P6F0395
Hexachloroethane	BRL	ug/L	10	1.7	1	*8270D	6/22/16 17:21	JMV	P6F0395
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	3.9	1	*8270D	6/22/16 17:21	JMV	P6F0395
Isophorone	BRL	ug/L	10	2.5	1	*8270D	6/22/16 17:21	JMV	P6F0395
Naphthalene	BRL	ug/L	10	2.6	1	*8270D	6/22/16 17:21	JMV	P6F0395
Nitrobenzene	BRL	ug/L	10	2.6	1	*8270D	6/22/16 17:21	JMV	P6F0395
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.2	1	*8270D	6/22/16 17:21	JMV	P6F0395
N-Nitrosodiphenylamine	BRL	ug/L	10	1.3	1	*8270D	6/22/16 17:21	JMV	P6F0395
Pentachlorophenol	BRL	ug/L	10	1.2	1	*8270D	6/22/16 17:21	JMV	P6F0395
Phenanthrene	BRL	ug/L	10	1.5	1	*8270D	6/22/16 17:21	JMV	P6F0395
Phenol	BRL	ug/L	10	0.98	1	*8270D	6/22/16 17:21	JMV	P6F0395
Pyrene	BRL	ug/L	10	1.4	1	*8270D	6/22/16 17:21	JMV	P6F0395

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*89 %*	*43-140*
2-Fluorobiphenyl	*80 %*	*44-119*
2-Fluorophenol	*47 %*	*19-119*
Nitrobenzene-d5	*79 %*	*44-120*
Phenol-d5	*31 %*	*11-52*
Terphenyl-d14	*100 %*	*50-134*

Total Metals

Mercury	BRL	mg/L	0.00020	0.000030	1	*7470A	6/27/16 14:49	JAB	P6F0518
Antimony	BRL	mg/L	0.0050	0.00090	1	*6010D	6/21/16 18:22	BGM	P6F0398
Arsenic	BRL	mg/L	0.010	0.00070	1	*6010D	6/21/16 18:22	BGM	P6F0398
Beryllium	BRL	mg/L	0.0020	0.00010	1	*6010D	6/21/16 18:22	BGM	P6F0398
Cadmium	BRL	mg/L	0.0010	0.00010	1	*6010D	6/21/16 18:22	BGM	P6F0398
Chromium	**0.0076**	**mg/L**	**0.0050**	**0.00060**	**1**	***6010D**	**6/21/16 18:22**	**BGM**	**P6F0398**
Copper	**0.013**	**mg/L**	**0.010**	**0.0019**	**1**	***6010D**	**6/21/16 18:22**	**BGM**	**P6F0398**
Lead	**0.0079**	**mg/L**	**0.0050**	**0.0013**	**1**	***6010D**	**6/21/16 18:22**	**BGM**	**P6F0398**
Manganese	**0.27**	**mg/L**	**0.010**	**0.0016**	**1**	***6010D**	**6/21/16 18:22**	**BGM**	**P6F0398**

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Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Sample Matrix: Water

Client Sample ID: MW-2
Prism Sample ID: 6060313-03
Prism Work Order: 6060313
Time Collected: 06/14/16 11:10
Time Submitted: 06/16/16 15:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Nickel	BRL	mg/L	0.010	0.00040	1	*6010D	6/21/16 18:22	BGM	P6F0398
Selenium	BRL	mg/L	0.020	0.0032	1	*6010D	6/21/16 18:22	BGM	P6F0398
Silver	BRL	mg/L	0.0050	0.00020	1	*6010D	6/21/16 18:22	BGM	P6F0398
Thallium	BRL	mg/L	0.010	0.0013	1	*6010D	6/21/16 18:22	BGM	P6F0398
Zinc	**0.078**	**mg/L**	**0.030**	**0.0033**	**1**	***6010D**	**6/21/16 18:22**	**BGM**	**P6F0398**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	*8260B	6/23/16 17:14	KDM	P6F0498
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	*8260B	6/23/16 17:14	KDM	P6F0498
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	*8260B	6/23/16 17:14	KDM	P6F0498
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	6/23/16 17:14	KDM	P6F0498
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	*8260B	6/23/16 17:14	KDM	P6F0498
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	*8260B	6/23/16 17:14	KDM	P6F0498
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	*8260B	6/23/16 17:14	KDM	P6F0498
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	*8260B	6/23/16 17:14	KDM	P6F0498
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	*8260B	6/23/16 17:14	KDM	P6F0498
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	*8260B	6/23/16 17:14	KDM	P6F0498
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	*8260B	6/23/16 17:14	KDM	P6F0498
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	*8260B	6/23/16 17:14	KDM	P6F0498
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	*8260B	6/23/16 17:14	KDM	P6F0498
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	6/23/16 17:14	KDM	P6F0498
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	6/23/16 17:14	KDM	P6F0498
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	6/23/16 17:14	KDM	P6F0498
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	6/23/16 17:14	KDM	P6F0498
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	*8260B	6/23/16 17:14	KDM	P6F0498
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	*8260B	6/23/16 17:14	KDM	P6F0498
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	*8260B	6/23/16 17:14	KDM	P6F0498
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	6/23/16 17:14	KDM	P6F0498
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	*8260B	6/23/16 17:14	KDM	P6F0498
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	*8260B	6/23/16 17:14	KDM	P6F0498
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	*8260B	6/23/16 17:14	KDM	P6F0498
Acetone	BRL	ug/L	5.0	0.31	1	*8260B	6/23/16 17:14	KDM	P6F0498
Acrolein	BRL	ug/L	20	0.20	1	*8260B	6/23/16 17:14	KDM	P6F0498
Acrylonitrile	BRL	ug/L	20	0.20	1	*8260B	6/23/16 17:14	KDM	P6F0498
Benzene	BRL	ug/L	0.50	0.048	1	*8260B	6/23/16 17:14	KDM	P6F0498
Bromobenzene	BRL	ug/L	0.50	0.057	1	*8260B	6/23/16 17:14	KDM	P6F0498
Bromochloromethane	BRL	ug/L	0.50	0.14	1	*8260B	6/23/16 17:14	KDM	P6F0498
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	6/23/16 17:14	KDM	P6F0498
Bromoform	BRL	ug/L	1.0	0.040	1	*8260B	6/23/16 17:14	KDM	P6F0498
Bromomethane	BRL	ug/L	1.0	0.18	1	*8260B	6/23/16 17:14	KDM	P6F0498
Carbon disulfide	BRL	ug/L	5.0	0.075	1	*8260B	6/23/16 17:14	KDM	P6F0498
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	*8260B	6/23/16 17:14	KDM	P6F0498
Chlorobenzene	BRL	ug/L	0.50	0.062	1	*8260B	6/23/16 17:14	KDM	P6F0498
Chloroethane	BRL	ug/L	0.50	0.22	1	*8260B	6/23/16 17:14	KDM	P6F0498

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PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

07/01/2016

Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Sample Matrix: Water

Client Sample ID: MW-2
Prism Sample ID: 6060313-03
Prism Work Order: 6060313
Time Collected: 06/14/16 11:10
Time Submitted: 06/16/16 15:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloroform	BRL	ug/L	0.50	0.076	1	*8260B	6/23/16 17:14	KDM	P6F0498
Chloromethane	BRL	ug/L	0.50	0.079	1	*8260B	6/23/16 17:14	KDM	P6F0498
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	*8260B	6/23/16 17:14	KDM	P6F0498
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	*8260B	6/23/16 17:14	KDM	P6F0498
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	*8260B	6/23/16 17:14	KDM	P6F0498
Dibromomethane	BRL	ug/L	0.50	0.065	1	*8260B	6/23/16 17:14	KDM	P6F0498
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	6/23/16 17:14	KDM	P6F0498
Ethylbenzene	BRL	ug/L	0.50	0.061	1	*8260B	6/23/16 17:14	KDM	P6F0498
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	*8260B	6/23/16 17:14	KDM	P6F0498
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	*8260B	6/23/16 17:14	KDM	P6F0498
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	*8260B	6/23/16 17:14	KDM	P6F0498
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	*8260B	6/23/16 17:14	KDM	P6F0498
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	*8260B	6/23/16 17:14	KDM	P6F0498
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	*8260B	6/23/16 17:14	KDM	P6F0498
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	*8260B	6/23/16 17:14	KDM	P6F0498
Methylene Chloride	BRL	ug/L	1.0	0.083	1	*8260B	6/23/16 17:14	KDM	P6F0498
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	*8260B	6/23/16 17:14	KDM	P6F0498
Naphthalene	BRL	ug/L	1.0	0.19	1	*8260B	6/23/16 17:14	KDM	P6F0498
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	*8260B	6/23/16 17:14	KDM	P6F0498
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	6/23/16 17:14	KDM	P6F0498
o-Xylene	BRL	ug/L	0.50	0.044	1	*8260B	6/23/16 17:14	KDM	P6F0498
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	6/23/16 17:14	KDM	P6F0498
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	6/23/16 17:14	KDM	P6F0498
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	*8260B	6/23/16 17:14	KDM	P6F0498
Tetrachloroethylene	**7.3**	**ug/L**	**0.50**	**0.098**	**1**	***8260B**	**6/23/16 17:14**	**KDM**	**P6F0498**
Toluene	BRL	ug/L	0.50	0.044	1	*8260B	6/23/16 17:14	KDM	P6F0498
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	*8260B	6/23/16 17:14	KDM	P6F0498
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	*8260B	6/23/16 17:14	KDM	P6F0498
Trichloroethylene	BRL	ug/L	0.50	0.078	1	*8260B	6/23/16 17:14	KDM	P6F0498
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	*8260B	6/23/16 17:14	KDM	P6F0498
Vinyl acetate	BRL	ug/L	2.0	0.060	1	*8260B	6/23/16 17:14	KDM	P6F0498
Vinyl chloride	BRL	ug/L	0.50	0.097	1	*8260B	6/23/16 17:14	KDM	P6F0498

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*112 %*	*80-124*
Dibromofluoromethane	*95 %*	*75-129*
Toluene-d8	*101 %*	*77-123*

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Prism Work Order: 6060313
Time Submitted: 6/16/2016 3:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0498 - 5030B										
Blank (P6F0498-BLK1)				Prepared & Analyzed: 06/23/16						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,2,3-Trichlorobenzene	BRL	2.0	ug/L							
1,2,3-Trichloropropane	BRL	1.0	ug/L							
1,2,4-Trichlorobenzene	BRL	1.0	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,3,5-Trimethylbenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
Acetone	BRL	5.0	ug/L							
Acrolein	BRL	20	ug/L							
Acrylonitrile	BRL	20	ug/L							
Benzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
Ethylbenzene	BRL	0.50	ug/L							
Hexachlorobutadiene	BRL	2.0	ug/L							

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0498 - 5030B										
Blank (P6F0498-BLK1)				Prepared & Analyzed: 06/23/16						
Isopropyl Ether	BRL	0.50	ug/L							
Isopropylbenzene (Cumene)	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
Methyl-tert-Butyl Ether	BRL	0.50	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	1.0	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	2.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Heptane	0.00		ug/L							
Surrogate: 4-Bromofluorobenzene	*56.1*		*ug/L*	*50.00*		*112*	*80-124*			
Surrogate: Dibromofluoromethane	*46.9*		*ug/L*	*50.00*		*94*	*75-129*			
Surrogate: Toluene-d8	*49.6*		*ug/L*	*50.00*		*99*	*77-123*			

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Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Prism Work Order: 6060313
Time Submitted: 6/16/2016 3:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0498 - 5030B										
LCS (P6F0498-BS1)				Prepared & Analyzed: 06/23/16						
1,1,1,2-Tetrachloroethane	22.5	0.50	ug/L	20.00		113	79-134			
1,1,1-Trichloroethane	23.0	0.50	ug/L	20.00		115	75-136			
1,1,2,2-Tetrachloroethane	22.7	0.50	ug/L	20.00		114	62-127			
1,1,2-Trichloroethane	22.3	0.50	ug/L	20.00		112	70-140			
1,1-Dichloroethane	22.8	0.50	ug/L	20.00		114	78-130			
1,1-Dichloroethylene	22.0	0.50	ug/L	20.00		110	70-154			
1,1-Dichloropropylene	23.0	0.50	ug/L	20.00		115	71-136			
1,2,3-Trichlorobenzene	15.1	2.0	ug/L	20.00		75	58-144			
1,2,3-Trichloropropane	21.2	1.0	ug/L	20.00		106	71-127			
1,2,4-Trichlorobenzene	16.8	1.0	ug/L	20.00		84	66-139			
1,2,4-Trimethylbenzene	23.0	0.50	ug/L	20.00		115	75-133			
1,2-Dibromo-3-chloropropane	19.7	2.0	ug/L	20.00		99	63-134			
1,2-Dibromoethane	21.9	0.50	ug/L	20.00		109	77-135			
1,2-Dichlorobenzene	22.3	0.50	ug/L	20.00		112	78-128			
1,2-Dichloroethane	23.2	0.50	ug/L	20.00		116	68-131			
1,2-Dichloropropane	21.6	0.50	ug/L	20.00		108	77-130			
1,3,5-Trimethylbenzene	23.0	0.50	ug/L	20.00		115	75-131			
1,3-Dichlorobenzene	22.7	0.50	ug/L	20.00		114	77-125			
1,3-Dichloropropane	22.6	0.50	ug/L	20.00		113	76-132			
1,4-Dichlorobenzene	22.3	0.50	ug/L	20.00		112	75-126			
2,2-Dichloropropane	24.3	2.0	ug/L	20.00		122	29-149			
2-Chlorotoluene	23.0	0.50	ug/L	20.00		115	74-126			
4-Chlorotoluene	23.1	0.50	ug/L	20.00		116	78-129			
4-Isopropyltoluene	23.5	0.50	ug/L	20.00		117	69-132			
Acetone	31.6	5.0	ug/L	40.00		79	40-166			
Acrolein	43.1	20	ug/L	40.00		108	70-130			
Acrylonitrile	42.4	20	ug/L	40.00		106	81-127			
Benzene	22.8	0.50	ug/L	20.00		114	77-128			
Bromobenzene	22.4	0.50	ug/L	20.00		112	78-129			
Bromochloromethane	21.8	0.50	ug/L	20.00		109	78-135			
Bromodichloromethane	22.1	0.50	ug/L	20.00		111	76-138			
Bromoform	20.6	1.0	ug/L	20.00		103	71-135			
Bromomethane	21.4	1.0	ug/L	20.00		107	41-168			
Carbon disulfide	21.2	5.0	ug/L	20.00		106	59-135			
Carbon Tetrachloride	23.5	0.50	ug/L	20.00		117	72-142			
Chlorobenzene	21.8	0.50	ug/L	20.00		109	78-119			
Chloroethane	19.1	0.50	ug/L	20.00		96	57-142			
Chloroform	19.3	0.50	ug/L	20.00		96	77-130			
Chloromethane	19.0	0.50	ug/L	20.00		95	47-145			
cis-1,2-Dichloroethylene	22.8	0.50	ug/L	20.00		114	76-141			
cis-1,3-Dichloropropylene	21.7	0.50	ug/L	20.00		108	65-140			
Dibromochloromethane	21.6	0.50	ug/L	20.00		108	75-134			
Dibromomethane	22.0	0.50	ug/L	20.00		110	76-138			
Dichlorodifluoromethane	18.0	1.0	ug/L	20.00		90	28-163			
Ethylbenzene	22.7	0.50	ug/L	20.00		113	80-127			
Hexachlorobutadiene	20.2	2.0	ug/L	20.00		101	61-134			

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Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Prism Work Order: 6060313
Time Submitted: 6/16/2016 3:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0498 - 5030B										
LCS (P6F0498-BS1)				Prepared & Analyzed: 06/23/16						
Isopropyl Ether	21.2	0.50	ug/L	20.00		106	60-154			
Isopropylbenzene (Cumene)	22.9	0.50	ug/L	20.00		115	70-130			
m,p-Xylenes	43.5	1.0	ug/L	40.00		109	77-133			
Methyl Butyl Ketone (2-Hexanone)	19.1	5.0	ug/L	20.00		96	64-137			
Methyl Ethyl Ketone (2-Butanone)	17.8	5.0	ug/L	20.00		89	71-134			
Methyl Isobutyl Ketone	20.0	5.0	ug/L	20.00		100	69-134			
Methylene Chloride	21.0	1.0	ug/L	20.00		105	73-131			
Methyl-tert-Butyl Ether	21.7	0.50	ug/L	20.00		108	68-135			
Naphthalene	16.0	1.0	ug/L	20.00		80	64-136			
n-Butylbenzene	24.1	1.0	ug/L	20.00		120	68-134			
n-Propylbenzene	23.0	0.50	ug/L	20.00		115	72-132			
o-Xylene	22.6	0.50	ug/L	20.00		113	78-128			
sec-Butylbenzene	23.4	0.50	ug/L	20.00		117	71-131			
Styrene	21.8	0.50	ug/L	20.00		109	78-129			
tert-Butylbenzene	22.8	0.50	ug/L	20.00		114	70-132			
Tetrachloroethylene	23.2	0.50	ug/L	20.00		116	80-129			
Toluene	22.7	0.50	ug/L	20.00		114	76-131			
trans-1,2-Dichloroethylene	23.2	0.50	ug/L	20.00		116	76-135			
trans-1,3-Dichloropropylene	22.5	0.50	ug/L	20.00		113	67-140			
Trichloroethylene	22.2	0.50	ug/L	20.00		111	77-133			
Trichlorofluoromethane	20.2	0.50	ug/L	20.00		101	62-148			
Vinyl acetate	25.1	2.0	ug/L	20.00		125	34-167			
Vinyl chloride	20.2	0.50	ug/L	20.00		101	57-141			
Surrogate: 4-Bromofluorobenzene	*56.2*		*ug/L*	*50.00*		*112*	*80-124*			
Surrogate: Dibromofluoromethane	*48.1*		*ug/L*	*50.00*		*96*	*75-129*			
Surrogate: Toluene-d8	*50.0*		*ug/L*	*50.00*		*100*	*77-123*			
LCS Dup (P6F0498-BSD1)				Prepared & Analyzed: 06/23/16						
1,1,1,2-Tetrachloroethane	21.4	0.50	ug/L	20.00		107	79-134	5	20	
1,1,1-Trichloroethane	21.0	0.50	ug/L	20.00		105	75-136	9	20	
1,1,2,2-Tetrachloroethane	21.4	0.50	ug/L	20.00		107	62-127	6	20	
1,1,2-Trichloroethane	21.3	0.50	ug/L	20.00		107	70-140	5	20	
1,1-Dichloroethane	20.4	0.50	ug/L	20.00		102	78-130	11	20	
1,1-Dichloroethylene	19.9	0.50	ug/L	20.00		100	70-154	10	20	
1,1-Dichloropropylene	21.5	0.50	ug/L	20.00		108	71-136	7	20	
1,2,3-Trichlorobenzene	14.4	2.0	ug/L	20.00		72	58-144	5	20	
1,2,3-Trichloropropane	20.7	1.0	ug/L	20.00		103	71-127	2	20	
1,2,4-Trichlorobenzene	16.3	1.0	ug/L	20.00		81	66-139	3	20	
1,2,4-Trimethylbenzene	21.8	0.50	ug/L	20.00		109	75-133	5	20	
1,2-Dibromo-3-chloropropane	18.0	2.0	ug/L	20.00		90	63-134	9	20	
1,2-Dibromoethane	21.4	0.50	ug/L	20.00		107	77-135	2	20	
1,2-Dichlorobenzene	21.5	0.50	ug/L	20.00		108	78-128	4	20	
1,2-Dichloroethane	21.1	0.50	ug/L	20.00		106	68-131	9	20	
1,2-Dichloropropane	20.2	0.50	ug/L	20.00		101	77-130	7	20	
1,3,5-Trimethylbenzene	21.6	0.50	ug/L	20.00		108	75-131	6	20	
1,3-Dichlorobenzene	21.3	0.50	ug/L	20.00		107	77-125	6	20	
1,3-Dichloropropane	21.4	0.50	ug/L	20.00		107	76-132	6	20	

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Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Prism Work Order: 6060313
Time Submitted: 6/16/2016 3:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0498 - 5030B										
LCS Dup (P6F0498-BSD1)				Prepared & Analyzed: 06/23/16						
1,4-Dichlorobenzene	21.5	0.50	ug/L	20.00		108	75-126	3	20	
2,2-Dichloropropane	22.3	2.0	ug/L	20.00		112	29-149	8	20	
2-Chlorotoluene	21.8	0.50	ug/L	20.00		109	74-126	6	20	
4-Chlorotoluene	22.2	0.50	ug/L	20.00		111	78-129	4	20	
4-Isopropyltoluene	22.4	0.50	ug/L	20.00		112	69-132	5	20	
Acetone	30.0	5.0	ug/L	40.00		75	40-166	5	20	
Acrolein	41.5	20	ug/L	40.00		104	70-130	4	20	
Acrylonitrile	38.0	20	ug/L	40.00		95	81-127	11	20	
Benzene	20.8	0.50	ug/L	20.00		104	77-128	9	20	
Bromobenzene	21.9	0.50	ug/L	20.00		109	78-129	2	20	
Bromochloromethane	19.7	0.50	ug/L	20.00		99	78-135	10	20	
Bromodichloromethane	20.9	0.50	ug/L	20.00		104	76-138	6	20	
Bromoform	20.2	1.0	ug/L	20.00		101	71-135	2	20	
Bromomethane	20.0	1.0	ug/L	20.00		100	41-168	7	20	
Carbon disulfide	19.4	5.0	ug/L	20.00		97	59-135	9	20	
Carbon Tetrachloride	21.3	0.50	ug/L	20.00		106	72-142	10	20	
Chlorobenzene	20.6	0.50	ug/L	20.00		103	78-119	6	20	
Chloroethane	17.6	0.50	ug/L	20.00		88	57-142	8	20	
Chloroform	17.7	0.50	ug/L	20.00		89	77-130	8	20	
Chloromethane	16.9	0.50	ug/L	20.00		85	47-145	11	20	
cis-1,2-Dichloroethylene	20.7	0.50	ug/L	20.00		104	76-141	10	20	
cis-1,3-Dichloropropylene	20.7	0.50	ug/L	20.00		103	65-140	5	20	
Dibromochloromethane	20.8	0.50	ug/L	20.00		104	75-134	3	20	
Dibromomethane	21.0	0.50	ug/L	20.00		105	76-138	5	20	
Dichlorodifluoromethane	16.3	1.0	ug/L	20.00		82	28-163	10	20	
Ethylbenzene	21.1	0.50	ug/L	20.00		106	80-127	7	20	
Hexachlorobutadiene	18.9	2.0	ug/L	20.00		94	61-134	7	20	
Isopropyl Ether	19.6	0.50	ug/L	20.00		98	60-154	8	20	
Isopropylbenzene (Cumene)	21.9	0.50	ug/L	20.00		109	70-130	5	20	
m,p-Xylenes	40.7	1.0	ug/L	40.00		102	77-133	7	20	
Methyl Butyl Ketone (2-Hexanone)	17.8	5.0	ug/L	20.00		89	64-137	7	20	
Methyl Ethyl Ketone (2-Butanone)	16.6	5.0	ug/L	20.00		83	71-134	7	20	
Methyl Isobutyl Ketone	18.6	5.0	ug/L	20.00		93	69-134	8	20	
Methylene Chloride	19.1	1.0	ug/L	20.00		96	73-131	9	20	
Methyl-tert-Butyl Ether	20.6	0.50	ug/L	20.00		103	68-135	5	20	
Naphthalene	15.0	1.0	ug/L	20.00		75	64-136	7	20	
n-Butylbenzene	23.0	1.0	ug/L	20.00		115	68-134	4	20	
n-Propylbenzene	21.9	0.50	ug/L	20.00		110	72-132	5	20	
o-Xylene	21.3	0.50	ug/L	20.00		107	78-128	6	20	
sec-Butylbenzene	22.4	0.50	ug/L	20.00		112	71-131	5	20	
Styrene	20.7	0.50	ug/L	20.00		103	78-129	5	20	
tert-Butylbenzene	21.4	0.50	ug/L	20.00		107	70-132	7	20	
Tetrachloroethylene	21.8	0.50	ug/L	20.00		109	80-129	6	20	
Toluene	21.2	0.50	ug/L	20.00		106	76-131	7	20	
trans-1,2-Dichloroethylene	21.0	0.50	ug/L	20.00		105	76-135	10	20	
trans-1,3-Dichloropropylene	20.9	0.50	ug/L	20.00		104	67-140	7	20	

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Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Prism Work Order: 6060313
Time Submitted: 6/16/2016 3:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0498 - 5030B										
LCS Dup (P6F0498-BSD1)				Prepared & Analyzed: 06/23/16						
Trichloroethylene	20.6	0.50	ug/L	20.00		103	77-133	8	20	
Trichlorofluoromethane	18.6	0.50	ug/L	20.00		93	62-148	8	20	
Vinyl acetate	23.7	2.0	ug/L	20.00		119	34-167	6	20	
Vinyl chloride	18.2	0.50	ug/L	20.00		91	57-141	11	20	
Surrogate: 4-Bromofluorobenzene	*52.7*		*ug/L*	*50.00*		*105*	*80-124*			
Surrogate: Dibromofluoromethane	*45.3*		*ug/L*	*50.00*		*91*	*75-129*			
Surrogate: Toluene-d8	*48.6*		*ug/L*	*50.00*		*97*	*77-123*			

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Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Prism Work Order: 6060313
Time Submitted: 6/16/2016 3:00:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0395 - 3510C MS										
Blank (P6F0395-BLK1)				Prepared: 06/21/16 Analyzed: 06/22/16						
1,2,4-Trichlorobenzene	BRL	10	ug/L							
1,2-Dichlorobenzene	BRL	10	ug/L							
1,3-Dichlorobenzene	BRL	10	ug/L							
1,4-Dichlorobenzene	BRL	10	ug/L							
1-Methylnaphthalene	BRL	10	ug/L							
2,4,5-Trichlorophenol	BRL	10	ug/L							
2,4,6-Trichlorophenol	BRL	10	ug/L							
2,4-Dichlorophenol	BRL	10	ug/L							
2,4-Dimethylphenol	BRL	10	ug/L							
2,4-Dinitrophenol	BRL	10	ug/L							
2,4-Dinitrotoluene	BRL	10	ug/L							
2,6-Dinitrotoluene	BRL	10	ug/L							
2-Chloronaphthalene	BRL	10	ug/L							
2-Chlorophenol	BRL	10	ug/L							
2-Methylnaphthalene	BRL	10	ug/L							
2-Methylphenol	BRL	10	ug/L							
2-Nitroaniline	BRL	10	ug/L							
2-Nitrophenol	BRL	10	ug/L							
3,3'-Dichlorobenzidine	BRL	10	ug/L							
3/4-Methylphenol	BRL	10	ug/L							
3-Nitroaniline	BRL	10	ug/L							
4,6-Dinitro-2-methylphenol	BRL	10	ug/L							
4-Bromophenyl phenyl ether	BRL	10	ug/L							
4-Chloro-3-methylphenol	BRL	10	ug/L							
4-Chloroaniline	BRL	10	ug/L							
4-Chlorophenyl phenyl ether	BRL	10	ug/L							
4-Nitroaniline	BRL	10	ug/L							
4-Nitrophenol	BRL	10	ug/L							
Acenaphthene	BRL	10	ug/L							
Acenaphthylene	BRL	10	ug/L							
Aniline	BRL	10	ug/L							
Anthracene	BRL	10	ug/L							
Azobenzene	BRL	10	ug/L							
Benzo(a)anthracene	BRL	10	ug/L							
Benzo(a)pyrene	BRL	10	ug/L							
Benzo(b)fluoranthene	BRL	10	ug/L							
Benzo(g,h,i)perylene	BRL	10	ug/L							
Benzo(k)fluoranthene	BRL	10	ug/L							
Benzoic Acid	BRL	100	ug/L							
Benzyl alcohol	BRL	10	ug/L							
bis(2-Chloroethoxy)methane	BRL	10	ug/L							
Bis(2-Chloroethyl)ether	BRL	10	ug/L							
Bis(2-chloroisopropyl)ether	BRL	10	ug/L							
Bis(2-Ethylhexyl)phthalate	BRL	10	ug/L							
Butyl benzyl phthalate	BRL	10	ug/L							
Chrysene	BRL	10	ug/L							

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615 Bruce Thomas Rd.
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Project: Bivens Street

Prism Work Order: 6060313
Time Submitted: 6/16/2016 3:00:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0395 - 3510C MS										
Blank (P6F0395-BLK1)				Prepared: 06/21/16 Analyzed: 06/22/16						
Dibenzo(a,h)anthracene	BRL	10	ug/L							
Dibenzofuran	BRL	10	ug/L							
Diethyl phthalate	BRL	10	ug/L							
Dimethyl phthalate	BRL	10	ug/L							
Di-n-butyl phthalate	BRL	10	ug/L							
Di-n-octyl phthalate	BRL	10	ug/L							
Fluoranthene	BRL	10	ug/L							
Fluorene	BRL	10	ug/L							
Hexachlorobenzene	BRL	10	ug/L							
Hexachlorobutadiene	BRL	10	ug/L							
Hexachlorocyclopentadiene	BRL	10	ug/L							
Hexachloroethane	BRL	10	ug/L							
Indeno(1,2,3-cd)pyrene	BRL	10	ug/L							
Isophorone	BRL	10	ug/L							
Naphthalene	BRL	10	ug/L							
Nitrobenzene	BRL	10	ug/L							
N-Nitroso-di-n-propylamine	BRL	10	ug/L							
N-Nitrosodiphenylamine	BRL	10	ug/L							
Pentachlorophenol	BRL	10	ug/L							
Phenanthrene	BRL	10	ug/L							
Phenol	BRL	10	ug/L							
Pyrene	BRL	10	ug/L							
Surrogate: 2,4,6-Tribromophenol	*53.7*		*ug/L*	*100.0*		*54*	*43-140*			
Surrogate: 2-Fluorobiphenyl	*24.7*		*ug/L*	*50.00*		*49*	*44-119*			
Surrogate: 2-Fluorophenol	*35.6*		*ug/L*	*100.0*		*36*	*19-119*			
Surrogate: Nitrobenzene-d5	*25.1*		*ug/L*	*50.00*		*50*	*44-120*			
Surrogate: Phenol-d5	*21.2*		*ug/L*	*100.0*		*21*	*11-52*			
Surrogate: Terphenyl-d14	*36.0*		*ug/L*	*50.00*		*72*	*50-134*			

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Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Prism Work Order: 6060313
Time Submitted: 6/16/2016 3:00:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0395 - 3510C MS										
LCS (P6F0395-BS1)				Prepared: 06/21/16 Analyzed: 06/22/16						
1,2,4-Trichlorobenzene	23.4	10	ug/L	50.00		47	29-126			
1,2-Dichlorobenzene	21.4	10	ug/L	50.00		43	32-111			
1,3-Dichlorobenzene	20.4	10	ug/L	50.00		41	28-110			
1,4-Dichlorobenzene	20.9	10	ug/L	50.00		42	29-112			
1-Methylnaphthalene	25.3	10	ug/L	50.00		51	41-119			
2,4,5-Trichlorophenol	28.9	10	ug/L	50.00		58	53-123			
2,4,6-Trichlorophenol	26.9	10	ug/L	50.00		54	50-125			
2,4-Dichlorophenol	26.1	10	ug/L	50.00		52	47-121			
2,4-Dimethylphenol	26.3	10	ug/L	50.00		53	31-124			
2,4-Dinitrophenol	2.83	10	ug/L	50.00		6	23-143			L
2,4-Dinitrotoluene	28.8	10	ug/L	50.00		58	57-128			
2,6-Dinitrotoluene	28.2	10	ug/L	50.00		56	57-124			L
2-Chloronaphthalene	38.0	10	ug/L	50.00		76	40-116			
2-Chlorophenol	22.9	10	ug/L	50.00		46	38-117			
2-Methylnaphthalene	24.2	10	ug/L	50.00		48	40-121			
2-Methylphenol	21.6	10	ug/L	50.00		43	30-117			
2-Nitroaniline	28.7	10	ug/L	50.00		57	55-127			
2-Nitrophenol	23.9	10	ug/L	50.00		48	47-123			
3,3'-Dichlorobenzidine	30.2	10	ug/L	50.00		60	27-129			
3/4-Methylphenol	19.9	10	ug/L	50.00		40	29-110			
3-Nitroaniline	27.9	10	ug/L	50.00		56	41-128			
4,6-Dinitro-2-methylphenol	15.5	10	ug/L	50.00		31	44-137			L
4-Bromophenyl phenyl ether	29.7	10	ug/L	50.00		59	55-124			
4-Chloro-3-methylphenol	29.7	10	ug/L	50.00		59	52-119			
4-Chloroaniline	25.7	10	ug/L	50.00		51	33-117			
4-Chlorophenyl phenyl ether	30.3	10	ug/L	50.00		61	53-121			
4-Nitroaniline	29.7	10	ug/L	50.00		59	45-135			
4-Nitrophenol	13.0	10	ug/L	50.00		26	10-77			
Acenaphthene	28.0	10	ug/L	50.00		56	47-122			
Acenaphthylene	29.0	10	ug/L	50.00		58	41-130			
Aniline	23.6	10	ug/L	50.00		47	12-197			
Anthracene	31.0	10	ug/L	50.00		62	57-123			
Azobenzene	28.5	10	ug/L	50.00		57	61-116			L
Benzo(a)anthracene	31.4	10	ug/L	50.00		63	58-125			
Benzo(a)pyrene	40.6	10	ug/L	50.00		81	54-128			
Benzo(b)fluoranthene	36.8	10	ug/L	50.00		74	53-131			
Benzo(g,h,i)perylene	37.6	10	ug/L	50.00		75	50-134			
Benzo(k)fluoranthene	41.2	10	ug/L	50.00		82	57-129			
Benzoic Acid	BRL	100	ug/L	50.00			10-125			L
Benzyl alcohol	20.0	10	ug/L	50.00		40	31-112			
bis(2-Chloroethoxy)methane	25.1	10	ug/L	50.00		50	48-120			
Bis(2-Chloroethyl)ether	23.4	10	ug/L	50.00		47	43-118			
Bis(2-chloroisopropyl)ether	22.5	10	ug/L	50.00		45	37-130			
Bis(2-Ethylhexyl)phthalate	31.0	10	ug/L	50.00		62	55-135			
Butyl benzyl phthalate	31.1	10	ug/L	50.00		62	53-134			
Chrysene	33.4	10	ug/L	50.00		67	59-123			

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Monroe, NC 28112

Project: Bivens Street

Prism Work Order: 6060313
Time Submitted: 6/16/2016 3:00:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0395 - 3510C MS										
LCS (P6F0395-BS1)				Prepared: 06/21/16 Analyzed: 06/22/16						
Dibenzo(a,h)anthracene	39.0	10	ug/L	50.00		78	51-134			
Dibenzofuran	29.6	10	ug/L	50.00		59	53-118			
Diethyl phthalate	30.1	10	ug/L	50.00		60	56-125			
Dimethyl phthalate	29.6	10	ug/L	50.00		59	45-127			
Di-n-butyl phthalate	30.6	10	ug/L	50.00		61	59-127			
Di-n-octyl phthalate	38.3	10	ug/L	50.00		77	51-140			
Fluoranthene	29.7	10	ug/L	50.00		59	57-128			
Fluorene	30.0	10	ug/L	50.00		60	52-124			
Hexachlorobenzene	33.1	10	ug/L	50.00		66	53-125			
Hexachlorobutadiene	22.4	10	ug/L	50.00		45	22-124			
Hexachlorocyclopentadiene	24.1	10	ug/L	50.00		48	32-117			
Hexachloroethane	19.4	10	ug/L	50.00		39	21-115			
Indeno(1,2,3-cd)pyrene	40.3	10	ug/L	50.00		81	52-134			
Isophorone	25.7	10	ug/L	50.00		51	42-124			
Naphthalene	23.8	10	ug/L	50.00		48	40-121			
Nitrobenzene	23.0	10	ug/L	50.00		46	45-121			
N-Nitroso-di-n-propylamine	24.4	10	ug/L	50.00		49	49-119			L
N-Nitrosodiphenylamine	29.6	10	ug/L	50.00		59	51-123			
Pentachlorophenol	9.37	10	ug/L	50.00		19	35-138			L
Phenanthrene	30.7	10	ug/L	50.00		61	59-120			
Phenol	10.8	10	ug/L	50.00		22	12-58			
Pyrene	31.3	10	ug/L	50.00		63	57-126			
Surrogate: 2,4,6-Tribromophenol	*61.2*		*ug/L*	*100.0*		*61*	*43-140*			
Surrogate: 2-Fluorobiphenyl	*26.6*		*ug/L*	*50.00*		*53*	*44-119*			
Surrogate: 2-Fluorophenol	*29.0*		*ug/L*	*100.0*		*29*	*19-119*			
Surrogate: Nitrobenzene-d5	*24.8*		*ug/L*	*50.00*		*50*	*44-120*			
Surrogate: Phenol-d5	*18.8*		*ug/L*	*100.0*		*19*	*11-52*			
Surrogate: Terphenyl-d14	*34.5*		*ug/L*	*50.00*		*69*	*50-134*			

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Prism Work Order: 6060313
Time Submitted: 6/16/2016 3:00:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0395 - 3510C MS										
LCS Dup (P6F0395-BSD1)				Prepared: 06/21/16 Analyzed: 06/22/16						
1,2,4-Trichlorobenzene	21.8	10	ug/L	50.00		44	29-126	7	20	
1,2-Dichlorobenzene	19.5	10	ug/L	50.00		39	32-111	9	20	
1,3-Dichlorobenzene	18.6	10	ug/L	50.00		37	28-110	9	20	
1,4-Dichlorobenzene	18.9	10	ug/L	50.00		38	29-112	10	20	
1-Methylnaphthalene	22.5	10	ug/L	50.00		45	41-119	12	20	
2,4,5-Trichlorophenol	25.7	10	ug/L	50.00		51	53-123	12	20	L2
2,4,6-Trichlorophenol	25.2	10	ug/L	50.00		50	50-125	7	20	
2,4-Dichlorophenol	23.9	10	ug/L	50.00		48	47-121	9	20	
2,4-Dimethylphenol	23.6	10	ug/L	50.00		47	31-124	11	20	
2,4-Dinitrophenol	BRL	10	ug/L	50.00			23-143		20	L
2,4-Dinitrotoluene	26.8	10	ug/L	50.00		54	57-128	7	20	L2
2,6-Dinitrotoluene	24.9	10	ug/L	50.00		50	57-124	12	20	L
2-Chloronaphthalene	33.2	10	ug/L	50.00		66	40-116	14	20	
2-Chlorophenol	20.2	10	ug/L	50.00		40	38-117	12	20	
2-Methylnaphthalene	21.4	10	ug/L	50.00		43	40-121	12	20	
2-Methylphenol	18.8	10	ug/L	50.00		38	30-117	14	20	
2-Nitroaniline	25.5	10	ug/L	50.00		51	55-127	12	20	L2
2-Nitrophenol	22.2	10	ug/L	50.00		44	47-123	7	20	L2
3,3'-Dichlorobenzidine	28.4	10	ug/L	50.00		57	27-129	6	20	
3/4-Methylphenol	17.7	10	ug/L	50.00		35	29-110	12	20	
3-Nitroaniline	25.9	10	ug/L	50.00		52	41-128	7	20	
4,6-Dinitro-2-methylphenol	14.0	10	ug/L	50.00		28	44-137	10	20	L
4-Bromophenyl phenyl ether	27.6	10	ug/L	50.00		55	55-124	8	20	
4-Chloro-3-methylphenol	25.6	10	ug/L	50.00		51	52-119	15	20	L2
4-Chloroaniline	23.4	10	ug/L	50.00		47	33-117	9	20	
4-Chlorophenyl phenyl ether	26.9	10	ug/L	50.00		54	53-121	12	20	
4-Nitroaniline	27.6	10	ug/L	50.00		55	45-135	7	20	
4-Nitrophenol	12.4	10	ug/L	50.00		25	10-77	5	20	
Acenaphthene	25.4	10	ug/L	50.00		51	47-122	10	20	
Acenaphthylene	25.8	10	ug/L	50.00		52	41-130	12	20	
Aniline	21.6	10	ug/L	50.00		43	12-197	9	20	
Anthracene	28.6	10	ug/L	50.00		57	57-123	8	20	
Azobenzene	26.0	10	ug/L	50.00		52	61-116	9	20	L
Benzo(a)anthracene	28.7	10	ug/L	50.00		57	58-125	9	20	L2
Benzo(a)pyrene	34.2	10	ug/L	50.00		68	54-128	17	20	
Benzo(b)fluoranthene	31.3	10	ug/L	50.00		63	53-131	16	20	
Benzo(g,h,i)perylene	32.2	10	ug/L	50.00		64	50-134	15	20	
Benzo(k)fluoranthene	35.7	10	ug/L	50.00		71	57-129	14	20	
Benzoic Acid	BRL	100	ug/L	50.00			10-125		20	L
Benzyl alcohol	18.2	10	ug/L	50.00		36	31-112	9	20	
bis(2-Chloroethoxy)methane	22.4	10	ug/L	50.00		45	48-120	11	20	L2
Bis(2-Chloroethyl)ether	20.6	10	ug/L	50.00		41	43-118	13	20	L2
Bis(2-chloroisopropyl)ether	19.9	10	ug/L	50.00		40	37-130	12	20	
Bis(2-Ethylhexyl)phthalate	28.8	10	ug/L	50.00		58	55-135	7	20	
Butyl benzyl phthalate	27.8	10	ug/L	50.00		56	53-134	11	20	
Chrysene	29.6	10	ug/L	50.00		59	59-123	12	20	

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Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Prism Work Order: 6060313
Time Submitted: 6/16/2016 3:00:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0395 - 3510C MS										
LCS Dup (P6F0395-BSD1)				Prepared: 06/21/16 Analyzed: 06/22/16						
Dibenzo(a,h)anthracene	32.4	10	ug/L	50.00		65	51-134	18	20	
Dibenzofuran	26.3	10	ug/L	50.00		53	53-118	12	20	L2
Diethyl phthalate	27.0	10	ug/L	50.00		54	56-125	11	20	L2
Dimethyl phthalate	27.0	10	ug/L	50.00		54	45-127	9	20	
Di-n-butyl phthalate	28.8	10	ug/L	50.00		58	59-127	6	20	L2
Di-n-octyl phthalate	33.1	10	ug/L	50.00		66	51-140	15	20	
Fluoranthene	27.8	10	ug/L	50.00		56	57-128	7	20	L2
Fluorene	26.3	10	ug/L	50.00		53	52-124	13	20	
Hexachlorobenzene	29.6	10	ug/L	50.00		59	53-125	11	20	
Hexachlorobutadiene	20.0	10	ug/L	50.00		40	22-124	12	20	
Hexachlorocyclopentadiene	21.8	10	ug/L	50.00		44	32-117	10	20	
Hexachloroethane	19.6	10	ug/L	50.00		39	21-115	0.8	20	
Indeno(1,2,3-cd)pyrene	33.8	10	ug/L	50.00		68	52-134	18	20	
Isophorone	22.8	10	ug/L	50.00		46	42-124	12	20	
Naphthalene	20.9	10	ug/L	50.00		42	40-121	13	20	
Nitrobenzene	20.2	10	ug/L	50.00		40	45-121	13	20	L2
N-Nitroso-di-n-propylamine	21.4	10	ug/L	50.00		43	49-119	13	20	L
N-Nitrosodiphenylamine	27.9	10	ug/L	50.00		56	51-123	6	20	
Pentachlorophenol	10.0	10	ug/L	50.00		20	35-138	7	20	L
Phenanthrene	28.0	10	ug/L	50.00		56	59-120	9	20	L2
Phenol	9.94	10	ug/L	50.00		20	12-58	8	20	
Pyrene	28.3	10	ug/L	50.00		57	57-126	10	20	L2
Surrogate: 2,4,6-Tribromophenol	*62.6*		*ug/L*	*100.0*		*63*	*43-140*			
Surrogate: 2-Fluorobiphenyl	*25.6*		*ug/L*	*50.00*		*51*	*44-119*			
Surrogate: 2-Fluorophenol	*29.8*		*ug/L*	*100.0*		*30*	*19-119*			
Surrogate: Nitrobenzene-d5	*23.8*		*ug/L*	*50.00*		*48*	*44-120*			
Surrogate: Phenol-d5	*19.4*		*ug/L*	*100.0*		*19*	*11-52*			
Surrogate: Terphenyl-d14	*33.9*		*ug/L*	*50.00*		*68*	*50-134*			

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Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Prism Work Order: 6060313
Time Submitted: 6/16/2016 3:00:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0395 - 3510C MS										
Matrix Spike (P6F0395-MS1)	**Source: 6060313-02**			Prepared: 06/21/16	Analyzed: 06/22/16					
1,2,4-Trichlorobenzene	56.0	20	ug/L	100.0	BRL	56	29-116			
1,2-Dichlorobenzene	50.4	20	ug/L	100.0	BRL	50	32-111			
1,3-Dichlorobenzene	49.1	20	ug/L	100.0	BRL	49	28-110			
1,4-Dichlorobenzene	49.2	20	ug/L	100.0	BRL	49	29-112			
1-Methylnaphthalene	54.4	20	ug/L	100.0	BRL	54	41-119			
2,4,5-Trichlorophenol	58.9	20	ug/L	100.0	BRL	59	53-123			
2,4,6-Trichlorophenol	59.6	20	ug/L	100.0	BRL	60	50-125			
2,4-Dichlorophenol	58.4	20	ug/L	100.0	BRL	58	47-121			
2,4-Dimethylphenol	56.0	20	ug/L	100.0	BRL	56	31-124			
2,4-Dinitrophenol	34.1	20	ug/L	100.0	BRL	34	23-143			
2,4-Dinitrotoluene	60.2	20	ug/L	100.0	BRL	60	57-128			
2,6-Dinitrotoluene	59.2	20	ug/L	100.0	BRL	59	57-124			
2-Chloronaphthalene	77.3	20	ug/L	100.0	BRL	77	40-116			
2-Chlorophenol	51.3	20	ug/L	100.0	BRL	51	38-117			
2-Methylnaphthalene	53.2	20	ug/L	100.0	BRL	53	40-121			
2-Methylphenol	49.6	20	ug/L	100.0	BRL	50	30-117			
2-Nitroaniline	57.9	20	ug/L	100.0	BRL	58	55-127			
2-Nitrophenol	55.1	20	ug/L	100.0	BRL	55	47-123			
3,3'-Dichlorobenzidine	57.6	20	ug/L	100.0	BRL	58	27-129			
3/4-Methylphenol	48.5	20	ug/L	100.0	BRL	49	29-110			
3-Nitroaniline	57.9	20	ug/L	100.0	BRL	58	41-128			
4,6-Dinitro-2-methylphenol	62.3	20	ug/L	100.0	BRL	62	44-137			
4-Bromophenyl phenyl ether	63.2	20	ug/L	100.0	BRL	63	55-124			
4-Chloro-3-methylphenol	62.0	20	ug/L	100.0	BRL	62	52-119			
4-Chloroaniline	53.2	20	ug/L	100.0	BRL	53	33-117			
4-Chlorophenyl phenyl ether	61.6	20	ug/L	100.0	BRL	62	53-121			
4-Nitroaniline	63.7	20	ug/L	100.0	BRL	64	45-135			
4-Nitrophenol	42.0	20	ug/L	100.0	BRL	42	10-105			
Acenaphthene	57.3	20	ug/L	100.0	BRL	57	47-122			
Acenaphthylene	59.6	20	ug/L	100.0	BRL	60	41-130			
Aniline	44.1	20	ug/L	100.0	BRL	44	11-124			
Anthracene	66.5	20	ug/L	100.0	BRL	67	57-123			
Azobenzene	61.1	20	ug/L	100.0	BRL	61	61-116			
Benzo(a)anthracene	64.9	20	ug/L	100.0	BRL	65	58-125			
Benzo(a)pyrene	77.4	20	ug/L	100.0	BRL	77	54-128			
Benzo(b)fluoranthene	74.7	20	ug/L	100.0	BRL	75	53-131			
Benzo(g,h,i)perylene	74.2	20	ug/L	100.0	BRL	74	50-134			
Benzo(k)fluoranthene	75.5	20	ug/L	100.0	BRL	76	57-129			
Benzoic Acid	BRL	200	ug/L	100.0	BRL		10-125			M
Benzyl alcohol	47.8	20	ug/L	100.0	BRL	48	31-112			
bis(2-Chloroethoxy)methane	54.4	20	ug/L	100.0	BRL	54	48-120			
Bis(2-Chloroethyl)ether	50.5	20	ug/L	100.0	BRL	51	43-118			
Bis(2-chloroisopropyl)ether	51.0	20	ug/L	100.0	BRL	51	37-130			
Bis(2-Ethylhexyl)phthalate	66.0	20	ug/L	100.0	BRL	66	55-135			
Butyl benzyl phthalate	66.1	20	ug/L	100.0	BRL	66	53-134			
Chrysene	68.9	20	ug/L	100.0	BRL	69	59-123			

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Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Prism Work Order: 6060313
Time Submitted: 6/16/2016 3:00:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0395 - 3510C MS										
Matrix Spike (P6F0395-MS1)		**Source: 6060313-02**		Prepared: 06/21/16 Analyzed: 06/22/16						
Dibenzo(a,h)anthracene	74.5	20	ug/L	100.0	BRL	74	51-134			
Dibenzofuran	60.6	20	ug/L	100.0	BRL	61	53-118			
Diethyl phthalate	62.1	20	ug/L	100.0	BRL	62	56-125			
Dimethyl phthalate	61.7	20	ug/L	100.0	BRL	62	45-127			
Di-n-butyl phthalate	67.6	20	ug/L	100.0	BRL	68	59-127			
Di-n-octyl phthalate	75.0	20	ug/L	100.0	BRL	75	51-140			
Fluoranthene	63.3	20	ug/L	100.0	BRL	63	57-128			
Fluorene	61.1	20	ug/L	100.0	BRL	61	52-124			
Hexachlorobenzene	68.8	20	ug/L	100.0	BRL	69	53-125			
Hexachlorobutadiene	53.9	20	ug/L	100.0	BRL	54	22-124			
Hexachlorocyclopentadiene	56.6	20	ug/L	100.0	BRL	57	26-122			
Hexachloroethane	50.8	20	ug/L	100.0	BRL	51	21-115			
Indeno(1,2,3-cd)pyrene	77.6	20	ug/L	100.0	BRL	78	52-134			
Isophorone	56.2	20	ug/L	100.0	BRL	56	42-124			
Naphthalene	52.3	20	ug/L	100.0	BRL	52	40-121			
Nitrobenzene	49.4	20	ug/L	100.0	BRL	49	45-121			
N-Nitroso-di-n-propylamine	54.2	20	ug/L	100.0	BRL	54	49-119			
N-Nitrosodiphenylamine	63.0	20	ug/L	100.0	BRL	63	51-123			
Pentachlorophenol	58.9	20	ug/L	100.0	BRL	59	35-138			
Phenanthrene	64.4	20	ug/L	100.0	BRL	64	59-120			
Phenol	32.5	20	ug/L	100.0	BRL	33	10-68			
Pyrene	65.4	20	ug/L	100.0	BRL	65	57-126			
Surrogate: 2,4,6-Tribromophenol	*136*		*ug/L*	*200.0*		*68*	*43-140*			
Surrogate: 2-Fluorobiphenyl	*58.1*		*ug/L*	*100.0*		*58*	*44-119*			
Surrogate: 2-Fluorophenol	*83.0*		*ug/L*	*200.0*		*42*	*19-119*			
Surrogate: Nitrobenzene-d5	*54.2*		*ug/L*	*100.0*		*54*	*44-120*			
Surrogate: Phenol-d5	*64.2*		*ug/L*	*200.0*		*32*	*11-52*			
Surrogate: Terphenyl-d14	*73.9*		*ug/L*	*100.0*		*74*	*50-134*			

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Prism Work Order: 6060313
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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0395 - 3510C MS										
Matrix Spike Dup (P6F0395-MSD1)	**Source: 6060313-02**		Prepared: 06/21/16 Analyzed: 06/22/16							
1,2,4-Trichlorobenzene	46.6	20	ug/L	100.0	BRL	47	29-116	18	30	
1,2-Dichlorobenzene	43.8	20	ug/L	100.0	BRL	44	32-111	14	50	
1,3-Dichlorobenzene	43.9	20	ug/L	100.0	BRL	44	28-110	11	50	
1,4-Dichlorobenzene	43.3	20	ug/L	100.0	BRL	43	29-112	13	50	
1-Methylnaphthalene	45.2	20	ug/L	100.0	BRL	45	41-119	18	50	
2,4,5-Trichlorophenol	48.5	20	ug/L	100.0	BRL	49	53-123	19	50	M
2,4,6-Trichlorophenol	47.8	20	ug/L	100.0	BRL	48	50-125	22	50	M
2,4-Dichlorophenol	48.6	20	ug/L	100.0	BRL	49	47-121	18	50	
2,4-Dimethylphenol	47.0	20	ug/L	100.0	BRL	47	31-124	18	50	
2,4-Dinitrophenol	25.0	20	ug/L	100.0	BRL	25	23-143	31	50	
2,4-Dinitrotoluene	44.8	20	ug/L	100.0	BRL	45	57-128	29	50	M
2,6-Dinitrotoluene	43.7	20	ug/L	100.0	BRL	44	57-124	30	50	M
2-Chloronaphthalene	65.3	20	ug/L	100.0	BRL	65	40-116	17	50	
2-Chlorophenol	43.8	20	ug/L	100.0	BRL	44	38-117	16	50	
2-Methylnaphthalene	43.5	20	ug/L	100.0	BRL	43	40-121	20	50	
2-Methylphenol	41.9	20	ug/L	100.0	BRL	42	30-117	17	50	
2-Nitroaniline	45.5	20	ug/L	100.0	BRL	46	55-127	24	50	M
2-Nitrophenol	46.0	20	ug/L	100.0	BRL	46	47-123	18	50	M
3,3'-Dichlorobenzidine	47.9	20	ug/L	100.0	BRL	48	27-129	19	50	
3/4-Methylphenol	42.5	20	ug/L	100.0	BRL	42	29-110	13	50	
3-Nitroaniline	43.3	20	ug/L	100.0	BRL	43	41-128	29	50	
4,6-Dinitro-2-methylphenol	46.7	20	ug/L	100.0	BRL	47	44-137	29	50	
4-Bromophenyl phenyl ether	50.3	20	ug/L	100.0	BRL	50	55-124	23	50	M
4-Chloro-3-methylphenol	49.2	20	ug/L	100.0	BRL	49	52-119	23	50	M
4-Chloroaniline	41.8	20	ug/L	100.0	BRL	42	33-117	24	50	
4-Chlorophenyl phenyl ether	49.7	20	ug/L	100.0	BRL	50	53-121	21	50	M
4-Nitroaniline	44.9	20	ug/L	100.0	BRL	45	45-135	34	50	M
4-Nitrophenol	31.9	20	ug/L	100.0	BRL	32	10-105	27	50	
Acenaphthene	47.7	20	ug/L	100.0	BRL	48	47-122	18	50	
Acenaphthylene	48.4	20	ug/L	100.0	BRL	48	41-130	21	50	
Aniline	39.6	20	ug/L	100.0	BRL	40	11-124	11	50	
Anthracene	51.4	20	ug/L	100.0	BRL	51	57-123	26	50	M
Azobenzene	48.1	20	ug/L	100.0	BRL	48	61-116	24	50	M
Benzo(a)anthracene	49.9	20	ug/L	100.0	BRL	50	58-125	26	50	M
Benzo(a)pyrene	57.7	20	ug/L	100.0	BRL	58	54-128	29	50	
Benzo(b)fluoranthene	53.4	20	ug/L	100.0	BRL	53	53-131	33	50	
Benzo(g,h,i)perylene	53.2	20	ug/L	100.0	BRL	53	50-134	33	50	
Benzo(k)fluoranthene	58.6	20	ug/L	100.0	BRL	59	57-129	25	50	
Benzoic Acid	BRL	200	ug/L	100.0	BRL		10-125		50	M
Benzyl alcohol	42.5	20	ug/L	100.0	BRL	42	31-112	12	50	
bis(2-Chloroethoxy)methane	45.2	20	ug/L	100.0	BRL	45	48-120	19	50	M
Bis(2-Chloroethyl)ether	50.1	20	ug/L	100.0	BRL	50	43-118	0.9	50	
Bis(2-chloroisopropyl)ether	45.0	20	ug/L	100.0	BRL	45	37-130	12	50	
Bis(2-Ethylhexyl)phthalate	49.5	20	ug/L	100.0	BRL	50	55-135	29	50	M
Butyl benzyl phthalate	49.8	20	ug/L	100.0	BRL	50	53-134	28	50	M
Chrysene	51.7	20	ug/L	100.0	BRL	52	59-123	29	50	M

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Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Prism Work Order: 6060313
Time Submitted: 6/16/2016 3:00:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0395 - 3510C MS										
Matrix Spike Dup (P6F0395-MSD1)	**Source: 6060313-02**		Prepared: 06/21/16 Analyzed: 06/22/16							
Dibenzo(a,h)anthracene	52.9	20	ug/L	100.0	BRL	53	51-134	34	50	
Dibenzofuran	47.7	20	ug/L	100.0	BRL	48	53-118	24	50	M
Diethyl phthalate	46.9	20	ug/L	100.0	BRL	47	56-125	28	50	M
Dimethyl phthalate	46.5	20	ug/L	100.0	BRL	47	45-127	28	50	
Di-n-butyl phthalate	51.1	20	ug/L	100.0	BRL	51	59-127	28	50	M
Di-n-octyl phthalate	56.2	20	ug/L	100.0	BRL	56	51-140	29	50	
Fluoranthene	49.9	20	ug/L	100.0	BRL	50	57-128	24	50	M
Fluorene	48.2	20	ug/L	100.0	BRL	48	52-124	24	50	M
Hexachlorobenzene	53.7	20	ug/L	100.0	BRL	54	53-125	25	50	
Hexachlorobutadiene	45.6	20	ug/L	100.0	BRL	46	22-124	17	50	
Hexachlorocyclopentadiene	49.0	20	ug/L	100.0	BRL	49	26-122	14	50	
Hexachloroethane	42.4	20	ug/L	100.0	BRL	42	21-115	18	50	
Indeno(1,2,3-cd)pyrene	58.3	20	ug/L	100.0	BRL	58	52-134	28	50	
Isophorone	46.2	20	ug/L	100.0	BRL	46	42-124	20	50	
Naphthalene	45.2	20	ug/L	100.0	BRL	45	40-121	15	50	
Nitrobenzene	42.4	20	ug/L	100.0	BRL	42	45-121	15	50	M
N-Nitroso-di-n-propylamine	44.1	20	ug/L	100.0	BRL	44	49-119	20	50	M
N-Nitrosodiphenylamine	49.5	20	ug/L	100.0	BRL	50	51-123	24	50	M
Pentachlorophenol	45.1	20	ug/L	100.0	BRL	45	35-138	26	50	
Phenanthrene	50.5	20	ug/L	100.0	BRL	51	59-120	24	50	M
Phenol	29.8	20	ug/L	100.0	BRL	30	10-68	9	50	
Pyrene	50.5	20	ug/L	100.0	BRL	50	57-126	26	50	M
Surrogate: 2,4,6-Tribromophenol	*106*		*ug/L*	*200.0*		*53*	*43-140*			
Surrogate: 2-Fluorobiphenyl	*47.9*		*ug/L*	*100.0*		*48*	*44-119*			
Surrogate: 2-Fluorophenol	*75.7*		*ug/L*	*200.0*		*38*	*19-119*			
Surrogate: Nitrobenzene-d5	*45.7*		*ug/L*	*100.0*		*46*	*44-120*			
Surrogate: Phenol-d5	*60.4*		*ug/L*	*200.0*		*30*	*11-52*			
Surrogate: Terphenyl-d14	*56.9*		*ug/L*	*100.0*		*57*	*50-134*			

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Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Prism Work Order: 6060313
Time Submitted: 6/16/2016 3:00:00PM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0398 - 3010A										
Blank (P6F0398-BLK1)				Prepared & Analyzed: 06/21/16						
Antimony	BRL	0.0050	mg/L							
Arsenic	BRL	0.010	mg/L							
Beryllium	BRL	0.0020	mg/L							
Cadmium	BRL	0.0010	mg/L							
Chromium	BRL	0.0050	mg/L							
Copper	BRL	0.010	mg/L							
Lead	BRL	0.0050	mg/L							
Manganese	BRL	0.010	mg/L							
Nickel	BRL	0.010	mg/L							
Selenium	BRL	0.020	mg/L							
Silver	BRL	0.0050	mg/L							
Thallium	BRL	0.010	mg/L							
Zinc	BRL	0.030	mg/L							
LCS (P6F0398-BS1)				Prepared & Analyzed: 06/21/16						
Antimony	0.249	0.0050	mg/L	0.2500		100	80-120			
Arsenic	0.248	0.010	mg/L	0.2500		99	80-120			
Beryllium	0.253	0.0020	mg/L	0.2500		101	80-120			
Cadmium	0.253	0.0010	mg/L	0.2500		101	80-120			
Chromium	0.256	0.0050	mg/L	0.2500		102	80-120			
Copper	0.251	0.010	mg/L	0.2500		100	80-120			
Lead	0.253	0.0050	mg/L	0.2500		101	80-120			
Manganese	0.254	0.010	mg/L	0.2500		102	80-120			
Nickel	0.253	0.010	mg/L	0.2500		101	80-120			
Selenium	0.250	0.020	mg/L	0.2500		100	80-120			
Silver	0.101	0.0050	mg/L	0.1000		101	80-120			
Thallium	0.257	0.010	mg/L	0.2500		103	80-120			
Zinc	0.253	0.030	mg/L	0.2500		101	80-120			

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Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Prism Work Order: 6060313
Time Submitted: 6/16/2016 3:00:00PM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0398 - 3010A										
Matrix Spike (P6F0398-MS1)		**Source: 6060313-01**		Prepared & Analyzed: 06/21/16						
Antimony	0.251	0.0050	mg/L	0.2500	BRL	100	75-125			
Arsenic	0.255	0.010	mg/L	0.2500	0.00121	101	75-125			
Beryllium	0.252	0.0020	mg/L	0.2500	0.000178	101	75-125			
Cadmium	0.248	0.0010	mg/L	0.2500	BRL	99	75-125			
Chromium	0.257	0.0050	mg/L	0.2500	0.00541	101	75-125			
Copper	0.264	0.010	mg/L	0.2500	0.0112	101	75-125			
Lead	0.253	0.0050	mg/L	0.2500	0.00619	99	75-125			
Manganese	0.805	0.010	mg/L	0.2500	0.571	94	75-125			
Nickel	0.250	0.010	mg/L	0.2500	0.00718	97	75-125			
Selenium	0.262	0.020	mg/L	0.2500	0.0123	100	75-125			
Silver	0.0991	0.0050	mg/L	0.1000	BRL	99	75-125			
Thallium	0.247	0.010	mg/L	0.2500	BRL	99	75-125			
Zinc	0.264	0.030	mg/L	0.2500	0.0167	99	75-125			
Matrix Spike Dup (P6F0398-MSD1)		**Source: 6060313-01**		Prepared & Analyzed: 06/21/16						
Antimony	0.251	0.0050	mg/L	0.2500	BRL	101	75-125	0.2	20	
Arsenic	0.254	0.010	mg/L	0.2500	0.00121	101	75-125	0.2	20	
Beryllium	0.253	0.0020	mg/L	0.2500	0.000178	101	75-125	0.2	20	
Cadmium	0.249	0.0010	mg/L	0.2500	BRL	100	75-125	0.5	20	
Chromium	0.258	0.0050	mg/L	0.2500	0.00541	101	75-125	0.2	20	
Copper	0.265	0.010	mg/L	0.2500	0.0112	101	75-125	0.4	20	
Lead	0.254	0.0050	mg/L	0.2500	0.00619	99	75-125	0.5	20	
Manganese	0.803	0.010	mg/L	0.2500	0.571	93	75-125	0.4	20	
Nickel	0.251	0.010	mg/L	0.2500	0.00718	97	75-125	0.3	20	
Selenium	0.262	0.020	mg/L	0.2500	0.0123	100	75-125	0.2	20	
Silver	0.0997	0.0050	mg/L	0.1000	BRL	100	75-125	0.6	20	
Thallium	0.248	0.010	mg/L	0.2500	BRL	99	75-125	0.2	20	
Zinc	0.267	0.030	mg/L	0.2500	0.0167	100	75-125	1	20	

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Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Prism Work Order: 6060313
Time Submitted: 6/16/2016 3:00:00PM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0518 - 7470A										
Blank (P6F0518-BLK1)				Prepared & Analyzed: 06/27/16						
Mercury	BRL	0.00020	mg/L							
LCS (P6F0518-BS1)				Prepared & Analyzed: 06/27/16						
Mercury	0.00964	0.00020	mg/L	0.009375		103	80-120			

Sample Extraction Data

Prep Method: 3510C MS

Lab Number	Batch	Initial	Final	Date/Time
6060313-01	P6F0395	1000 mL	1 mL	06/21/16 8:45
6060313-02	P6F0395	1000 mL	1 mL	06/21/16 8:45
6060313-03	P6F0395	1000 mL	1 mL	06/21/16 8:45

Prep Method: 3010A

Lab Number	Batch	Initial	Final	Date/Time
6060313-01	P6F0398	50 mL	50 mL	06/21/16 7:50
6060313-02	P6F0398	50 mL	50 mL	06/21/16 7:50
6060313-03	P6F0398	50 mL	50 mL	06/21/16 7:50

Prep Method: 7470A

Lab Number	Batch	Initial	Final	Date/Time
6060313-01	P6F0518	20 mL	30 mL	06/27/16 10:05
6060313-02	P6F0518	20 mL	30 mL	06/27/16 10:05
6060313-03	P6F0518	20 mL	30 mL	06/27/16 10:05

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
6060313-01	P6F0498	10 mL	10 mL	06/23/16 14:55
6060313-02	P6F0498	10 mL	10 mL	06/23/16 14:55
6060313-02	P6F0498	10 mL	10 mL	06/23/16 14:55
6060313-03	P6F0498	10 mL	10 mL	06/23/16 14:55

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NC Certification No. 402
NC Drinking Water Cert No. 37735
SC Certification No. 99012
FL NELAC Cert No. E87519
VA NELAC Cert No. 460211

Case Narrative

06/24/2016

Harmon Environmental, PA
Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Lab Submittal Date: 06/17/2016
Prism Work Order: 6060333

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

C. Rusmisell

Cara C. Rusmisell
Project Manager

C. Rusmisell

Reviewed By Cara C. Rusmisell
Project Manager

Data Qualifiers Key Reference:

A	Samples were corrected for matrix interference from color and turbidity.
MI	Matrix spike outside of the control limits. Matrix interference suspected.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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Sample Receipt Summary

06/24/2016

Prism Work Order: 6060333

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
MW-2	6060333-01	Water	06/17/16	06/17/16
MW-3	6060333-02	Water	06/17/16	06/17/16
MW-1	6060333-03	Water	06/17/16	06/17/16

Samples were received in good condition at 2.7 degrees C unless otherwise noted.

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Summary of Detections

Prism Work Order:

Prism ID	Client ID	Parameter	Method	Result	Units

There were no detections reported.

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Laboratory Report

06/24/2016

Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Sample Matrix: Water

Client Sample ID: MW-2
Prism Sample ID: 6060333-01
Prism Work Order: 6060333
Time Collected: 06/17/16 08:35
Time Submitted: 06/17/16 17:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
Hexavalent Chromium	BRL A	mg/L	0.010	0.0028	1	*SM3500-Cr B	6/17/16 17:55	EGC	P6F0385

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Laboratory Report

06/24/2016

Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Sample Matrix: Water

Client Sample ID: MW-3
Prism Sample ID: 6060333-02
Prism Work Order: 6060333
Time Collected: 06/17/16 08:45
Time Submitted: 06/17/16 17:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
Hexavalent Chromium	BRL A	mg/L	0.010	0.0028	1	*SM3500-Cr B	6/17/16 17:55	EGC	P6F0385

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Laboratory Report

06/24/2016

Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Sample Matrix: Water

Client Sample ID: MW-1
Prism Sample ID: 6060333-03
Prism Work Order: 6060333
Time Collected: 06/17/16 08:50
Time Submitted: 06/17/16 17:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
Hexavalent Chromium	BRL A	mg/L	0.010	0.0028	1	*SM3500-Cr B	6/17/16 17:55	EGC	P6F0385

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Harmon Environmental, PA
Attn: Rick Harmon
615 Bruce Thomas Rd.
Monroe, NC 28112

Project: Bivens Street

Prism Work Order: 6060333
Time Submitted: 6/17/2016 5:30:00PM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6F0385 - NO PREP										
Blank (P6F0385-BLK1)				Prepared & Analyzed: 06/17/16						
Hexavalent Chromium	BRL	0.010	mg/L							
LCS (P6F0385-BS1)				Prepared & Analyzed: 06/17/16						
Hexavalent Chromium	0.376	0.010	mg/L	0.4000		94	90-110			
Matrix Spike (P6F0385-MS1)		**Source: 6060333-03**		Prepared & Analyzed: 06/17/16						
Hexavalent Chromium	0.129	0.010	mg/L	0.4000	BRL	32	85-115			A, MI
Matrix Spike Dup (P6F0385-MSD1)		**Source: 6060333-03**		Prepared & Analyzed: 06/17/16						
Hexavalent Chromium	0.109	0.010	mg/L	0.4000	BRL	27	85-115	17	20	A, MI

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CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions
449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
Phone: 704/529-6364 • Fax: 704/525-0409

Client Company Name: Normar Environmental
Report To/Contact Name: R. Hamm
Reporting Address: 615 Bruce Thomas Rd Marion NC 28752
Phone: 704 724 5640 Fax (Yes) (No):
Email (Yes) (No) Email Address normarenv@yahoo.com
EDD Type: PDF ✓ Excel ___ Other ___
Site Location Name: Former Reliance Bluff
Site Location Physical Address:

PAGE ___ OF ___ QUOTE # TO ENSURE PROPER BILLING:
Project Name: Former Reliance Bluff
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: Normar Env., PO
Address: 615 Bruce Thomas Rd Marion NC 28752
Purchase Order No./Billing Reference 7.50.02
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☑ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival? (BTH)	✓		
Received ON WET ICE? Temp 2.8 2.7	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?			✓
PROPER CONTAINERS used?	✓		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC ___ USACE ___ FL ___ NC ✓ SC ___ OTHER ___ N/A ___
Water Chlorinated: YES ___ NO ___
Sample Iced Upon Collection: YES ___ NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSES REQUESTED: CVOC	REMARKS	PRISM LAB ID NO.
MW-2	6/17/16	8:35	W	G	1	1L	Ice	X		01
MW-3	6/17/16	8:45	W	G	1	1L	Ice	X		02
MW-1	6/17/16	8:50	W	G	1	1L	Ice	X		03

Sampler's Signature [signature] Sampled By (Print Name) Rachel Hamm Affiliation Normar Enviro

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
[signature]	[signature]	6/17/16	1210
[signature] Mon. 6-17-16 1730	[signature]		
Relinquished By: (Signature)	Received For Prism Laboratories By: [signature]	6/17/16	1730

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☑ Prism Field Service ☐ Other
COC Group No. 6060333

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☑ NC ☐ SC

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

Attachment D
Receptor Survey

North Carolina Department of Environmental Quality
Division of Waste Management
Brownfields Program

BROWNFIELDS PROPERTY RECEPTOR SURVEY

This form was created to clarify and simplify preparing a receptor survey for a brownfield site. Please provide the information requested below. Distances are measured from the site property boundary unless otherwise indicated by the DENR Brownfield's Project Manager (PM).

Site: Reliable Buff
Address: 226 N. Bivens Road
City: Charlotte
County: Union
Brownfields Project Number: 19082-15-090

Property and Building Characteristics

Surface Conditions	*Current Usage*	*Proposed Usage*
Size of Property (acres)	2.39	NA
% of property that is wooded/brush	approximately 10%	Commercial/Light Industrial
% of property that is grassed areas	approximately 10%	Commercial/Light Industrial
% of property that is agricultural crops	0%	Commercial/Light Industrial
% of property that is paved	approximately 30%	Commercial/Light Industrial
% of property that is covered by buildings	approximately 25%	Commercial/Light Industrial

If an existing building is on-site, please respond to the following. Information can be provided on additional sheets as needed. If numerous buildings are on-site, consult with your PM as only information on specific buildings may be needed.

a. Provide occupancy and use information.

Currently the 22,000 square foot warehouse area is being leased for equipment storage. The property owner desires to lease the warehouse area and the 3,000 square foot office area for commercial and/or light industrial tenants.

b. Describe the construction of the building including materials (e.g. wood frame, block), type and size of openings (e.g. windows, bay doors), and height (number of stories).

The 3,000 square foot office area is a single store brick veneer building on a concrete slab floor. The office area has 12 windows measuring 3 ft by 6.5 ft and 3 personnel doors measuring 3 ft by 7 feet. The 22,000 square foot ware house area is a single storey steel building with ceiling heights of 14 to 18 feet. This area is constructed on a concrete slab. Two 10 ft by 10 ft bay doors and one 3 ft by 7 ft personnel door are located on the south side of the building. One 10 ft by 10 ft bay door and one 3 ft by 7 ft personnel door is located on the east side of the building and one personnel door is located on the north side of the warehouse area.

c. Describe the foundation construction. Include details on type, floor construction, and depth below grade.

The building foundation is concrete slab on grade. Based on soil boring conducted inside the warehouse area, the slab is approximately 4-inches thick.

d. Describe the HVAC system in the building. Include available details on type, equipment location, source of air return, and design considerations (e.g. positive pressure?).

The office area is equipped with one 10 Ton Trane® HVAC unit located on the ground to the north of the offices. This is currently being repaired and will be in service. The warehouse area is equipped with three Trane®10 ton HVAC systems. These systems are all currently out-of-service and are not scheduled to be repaired for the tenants.

e. Are any subslab ventilation systems or moisture barriers in place? If so, please provide details.

No

Surrounding Property Land Use

Please provide information on the following land uses in the vicinity of the subject site, including a map of the surrounding areas. If specific receptors are present, please provide addresses of the facilities.

Zoning/Land Use	*Current Use/Occupant*	*Proposed Usage*
North	Classic Dye Products	Same
South	Helms Machine Company	Same
East	Total Comfort Inc.	Same
West	Residential/William Ellis McCollum	Same

Specific Land Uses of Interest	*Y/N **	*Distance (ft)*	*Direction*	*Address*
Is a school or daycare center within 1,000 ft of the	N			
Is there a residence within 1,000 ft of the Property?	Y	200	West	219 N. Bivens Rd
Is there a basement within 1,000 ft of the Property	N			

* If numerous facilities of interest are present, their locations can be placed on a map in lieu of providing specific addresses.

Utilities

For the subject property, please provide a map of known buried utilites. If available, include depth to top, construction material, and diameter of the utilities. In addition, please provide the following information on utilty providers. If additional assessment is required, the public utility locators should be contacted. This information can then be added to a site map.

Is there a septic system on-site? (Y or N) N

Please provide the utility providers for the subject property

a. Natural Gas City of Monroe

b. Sewer City of Monroe

c. Electricity City of Monroe

d. Other _____

For surrounding properties, please complete the following table with available information.

Utility/Potential Receptor	*Y/N **	*Distance (ft)*	*Direction*
Is a storm water pipe within 100 ft of the Property boundary?	N		
Is a sanitary sewer within 100 ft of the Property boundary?	Y	on site	Northwest
Is a septic system leach field within 500 ft of the Property boundary?	Y	250 ft	Northwest
Is a water line main within 100 ft of Property boundary?	Y	<25 ft	Northwest
Is a natural gas line main within 100 ft of the Property boundary?	Y	<25 ft	Northwest
Is a buried telephone/ cable main within 100 ft of the Property boundary?	N		
Is a buried electrical cable main within 100 ft of Property boundary?	N		

* If yes, please provide a map or detailed information (distance, direction, depth) of the utility in correlation with the subject property.

Sanitary Sewer, Water and Natural Gas are located in the Right-of-Way on N. Bivens Road (See Attached Map).

Water Supply

The purpose of this section is to provide information on the water supply for the site and surrounding areas.

What is the potable water supply for the property? Public X____ Private _____

If Private, please provide details of the water supply source (i.e. well location, well construction, etc). If public, please include the water providers name.

_____

_____

_____

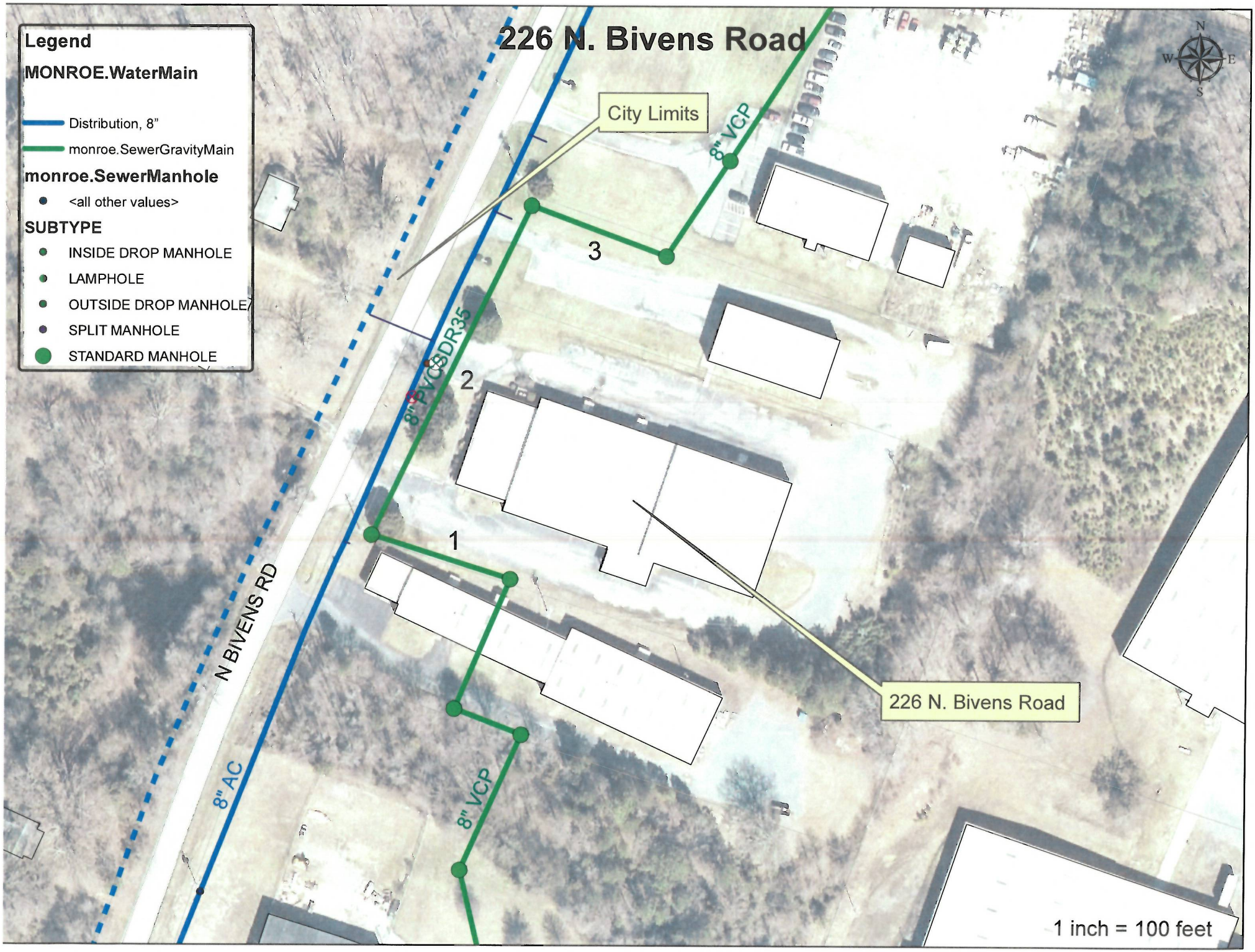
Please provide the following information regarding water supply wells in the vicinity of the Property. At a minimum, a windshield survey within 1,500 ft of the property boundaries should be completed to determine if water supply or irrigation wells may be present. Information from applicable databases can and should be utilized; however, should not be utilized in lieu of the windshield survey. If multiple wells are present within the requested radius, please provide a map of the well locations. If needed, please attach a separate table to list all wells. Please note, the PM may opt for a more extensive water supply well survey if needed.

Water Supply Wells	*Y/N*	*Distance (ft)*	*Direction*	*Address*
Is a public water supply well within 1 mile of the Property boundary?	N			
Is a private water supply well within 1,500 ft of the Property	N			
Is an irrigation well within 1,500 ft of the Property boundary?	N			

Surface Water & Wetlands

The purpose of this section is to provide information on the presence of surface waters and/or wetlands on, or in the vicinity of the Property.

Provide Information regarding Surface Water and Wetlands	*Response/Comments*
Are there surface water features on the property? (If yes, please complete a. to d.)	No
a. Is the water body naturally developed or man-made?	NA
b. List the uses of the water body.	NA
c. What is the source of the water for the water body?	NA
d. What is the nature of the bottom of the water body (e.g., rocky or concrete bottom, drainage ways or impoundments)	NA
If no on-site surface water features, what is the nearest surface water body?	A pond located adjacent to Bivens Street approximately 300 feet southwest of the site.
Are there any wetlands present on the property? If no wetlands on-site, are wetlands suspected on adjoining properties?	No


226 N. Bivens Road
Legend
MONROE.WaterMain
Distribution, 8"
monroe.SewerGravityMain
monroe.SewerManhole
<all other values>
SUBTYPE
INSIDE DROP MANHOLE
LAMPHOLE
OUTSIDE DROP MANHOLE
SPLIT MANHOLE
STANDARD MANHOLE
City Limits
8" VCP
3
2
1
8" PVC SDR35
N BIVENS RD
8" AC
8" VCP
226 N. Bivens Road
1 inch = 100 feet
N
W
E
S