



March 27, 2018

Ms. Maggie Green (3WP41)  
Pretreatment Coordinator  
U.S. Environmental Protection Agency  
Region III  
1650 Arch Street  
Philadelphia, PA 19103-2029

RE: Pretreatment Program 2017 Annual Report  
NPDES No. DC0021199

Dear Ms. Green:

Enclosed is the DC Water and Sewer Authority's (DC Water) 2017 Annual Pretreatment Program report. The report is arranged as follows:

2017 Annual Report Parts A and B for Blue Plains Advanced Wastewater Treatment Plant (AWTP) Users with the following attachments:

- Attachment 1 – Part A with attachments for Significant Industrial Users (SIUs) in the District of Columbia;
- Attachment 2 – Parts A and B with attachments for Washington Suburban Sanitary Commission (WSSC) SIUs discharging to Blue Plains;
- Attachment 3 – Parts A and B with attachments for Fairfax County Department of Public Works SIUs discharging to Blue Plains;
- Attachment 4 - Parts A and B with attachments for Loudoun Water SIUs discharging to Blue Plains;
- Attachment 5 – Part A for the Town of Vienna; and
- Attachment 6 – Quarterly influent, effluent, and biosolids data (local limits) and annual influent and biosolids priority pollutant data.

If you have any questions or need additional information, please contact Elaine Wilson at 202-787-4177 or [elaine.wilson@dcwater.com](mailto:elaine.wilson@dcwater.com).

Sincerely,



Akile Tesfaye  
AGM, Blue Plains

Enclosure

cc: Nicoline Shulterbrandt, DOEE  
Elaine Wilson, DC Water  
I-Hsin McConnell, WSSC (electronic copy)  
John Botts, Fairfax County (electronic copy)  
Frank Stokes, Loudoun Water (electronic copy)  
John Cassidy, Greeley and Hansen (electronic copy)

**PART A  
PRETREATMENT PERFORMANCE SUMMARY**

**I. General Information**

Control Authority Name		DC Water and Sewer Authority			
Address		5000 Overlook Ave., SW			
City	Washington	State	DC	Zip+4	20032
Contact Person	Aklile Tesfaye	Telephone No.	202-787-4008		
Contact Title	AGM Blue Plains	E-mail Address	atesfaye@dcwater.com		
NPDES No.	DC 0021199	Reporting Period	01-01-17 to 12-31-17		
Issuance Date	08/31/10	Expiration Date*	09/30/15		
Total CIUs	14	Total MTCIUs	0		
Total SNIUs	34	Total NSCIUs	0		

CIUs - Categorical Industrial Users

MTCIUs - Middle Tier Categorical Industrial Users

SNIUs - Significant Noncategorical Industrial Users

NSCIUs - Nonsignificant Categorical Industrial Users

**II. Compliance Monitoring Program**

1. No. of SIUs with current Control Documents.....	48
2. No. of SIU Facilities Inspected.....	48
3. No. of SIU Facilities Sampled.....	47
4. No. of SIUs Submitting Self-Monitoring Reports.....	46

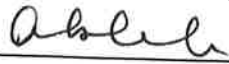
**III. Significant Industrial User Compliance**

1. No. of SIUs Violating a Compliance Schedule / No. on a Schedule.....	1/3
2. No. of SIUs in SNC for the July to December Period.....	3
3. No. of SIUs in SNC At Any Time During the Calendar Year.....	5
4. No. of SIUs in SNC That Were Also in SNC During the Previous Calendar Year	1
5. No. of NSCIUs that violated any standards or requirements	NA

**IV. Enforcement Actions**

1. Notices/Letters of Violation Issued to SIUs.....	29
2. Enforceable Compliance Schedules Issued to SIUs.....	25
3. Civil/Criminal Suits Filed.....	0
4. No. of SIUs from which Penalties have been Collected.....	1
5. Other Actions (sewer bans, etc.).....	4

I certify that the information contained in this report and attachments is complete and accurate to the best of my knowledge (see Part B.V of the instructions).

\_\_\_\_\_  
 Aklile Tesfaye  
 Name of Authorized Representative (Print)  
  
 Signature of Authorized Representative

\_\_\_\_\_  
 AGM Blue Plains  
 Title (Print)  
 3/20/18  
 Date

\*New NPDES permit has not been issued as of 12/31/17.

**Section I Attachment**  
**Summary of Blue Plains AWTP Significant Industrial Users**

**Table 1. List of Categorical Industrial Users and Category as of December 31, 2017**

#	Categorical Industrial User	Address	Category	Jurisdiction
1	Adelphi Laboratory Center	2800 Powder Mill Road Adelphi, MD 20783	PSNS 433.17 Metal Finishing; PSNS 469.18 Semiconductor; PSNS 461 – no discharge	WSSC
2	ATK Space Systems	11313 Frederick Avenue Beltsville, MD 20705	PSNS 433.17 Metal Finishing	WSSC
3	Bureau of Engraving and Printing	14 <sup>th</sup> and C Streets, SW Washington, DC 20228	PSNS 433.17 Metal Finishing	DC Water
4	Eaton Corporation	11642 Old Baltimore Pike Beltsville, MD 20705-1294	PSNS 433.17 Metal Finishing	WSSC
5	Emergent BioSolutions (formerly Sanofi Pasteur Biologics, Inc.)	9920 Medical Center Dr. Rockville, MD 20850	PSNS 439.47 Subpart D Pharmaceutical Mfg	WSSC
6	Human Genome Sciences (Large Scale Mfg)	9911 Belward Campus Drive Rockville, MD 20850	PSNS 439.17 Pharmaceutical Mfg	WSSC
7	Human Genome Sciences (Small Scale Mfg)	9910 Belward Campus Drive Rockville, MD 20850	PSNS 439.17 Pharmaceutical Mfg	WSSC
8	InnoScience, Inc.*	15892 Gaither Drive, Suite A Gaithersburg, MD 20877	PSNS 469.18 Electrical & Electronic Components – Semiconductor Mfg	WSSC
9	Maryland Metal Plating & Polishing	4110 Howard Avenue Kensington, MD 20895	PSNS 433.17 Metal Finishing	WSSC
10	Mid-Atlantic Finishing, Inc.	4656 Addison Road Capitol Heights, MD 20743	PSNS 433.17 Metal Finishing	WSSC
11	Precision Sheet Metal Supply	354 Victory Drive Herndon, VA 20170	PSNS 433 Metal Finishing	Fairfax County
12	TTM Technologies NA (formerly ViaSystems)	1200 Severn Way Sterling, VA 20166-8904	PSNS 433 Metal Finishing	Loudoun Water
13	United Therapeutics Corp.	1040 Spring St. Silver Spring, MD 20910	PSNS 439.47 Subpart D Pharmaceutical Mfg	WSSC
14	University of MD/DOD Physical Sciences Lab	8050 Greenmeade Drive College Park, MD 20740	PSNS 469.18 Electrical & Electronic Components - Semiconductor	WSSC

\*Ceased discharging during 2017, but permit still valid as of 12/31/17.

**Section I Attachment (continued)**  
**Summary of Blue Plains AWTP Significant Industrial Users**

**Table 2. List of Significant Non-categorical Industrial Users as of December 31, 2017**

#	Significant Non-categorical Industrial User	Address	Jurisdiction
1	Amtrak	1401 W St., NE Washington, DC 20018	DC Water
2	Capitol Power Plant	25 E St., SE Washington, DC 20003	DC Water
3	Coca-Cola Bottling Company Consolidated, Inc.	1710 Elton Road Silver Spring, MD 20903	WSSC
4	District Apartments Realty Holding Company, LLC	1401 S St., NW Washington, DC 20009	DC Water
5	District Photo, Inc.	10619 Baltimore Avenue Beltsville, MD 20705	WSSC
6	Fairfax Water	1295 Fred Morin Road Herndon, VA 20170	Fairfax County
7	Fort Detrick-Forest Glen Annex	9100 Brookville Road Silver Spring, MD 20910	WSSC
8	General Services Administration Central Heating and Refrigeration Plant	13 <sup>th</sup> and C Streets, SW Washington, DC 20407	DC Water
9	George Bush Center for Intelligence	930 Dolly Madison Blvd. McLean, VA 22101	Fairfax County
10	GlaxoSmithKline	14200 Shady Grove Road Rockville, MD 20850	WSSC
11	Huntsman P&A Americas, LLC	7011 Muirkirk Road Beltsville, MD 20705	WSSC
12	Marva Maid of Landover	6300 Sheriff Road Landover, MD 20785	WSSC
13	MedImmune, Inc.	1 MedImmune Way Gaithersburg, MD 20878	WSSC
14	Metropolitan Washington Airports Authority – Dulles International Airport	44701 Propeller Court Dulles, VA 20166	DC Water
15	National Archives and Records Administration	8601 Adelphi Road College Park, MD 20740	WSSC
16	National Institute of Standards & Technology	00 Muddy Branch Road Gaithersburg, MD 20899	WSSC
17	National Institutes of Health	9000 Rockville Pike Bethesda, MD 20892	WSSC
18	National Institutes of Health – NIAID Fishers Lane	5625 Fishers Lane Bethesda, MD 20852	WSSC

**Section I Attachment (continued)**  
**Summary of Blue Plains AWTP Significant Industrial Users**

**Table 2. List of Significant Non-categorical Industrial Users as of December 31, 2017 (cont.)**

#	Significant Noncategorical Industrial User	Address	Jurisdiction
19	Naval Research Laboratory	4555 Overlook Ave., SW Washington, DC 20375-5320	DC Water
20	Naval Support Activity Bethesda	Building 14, Code 0143 8901 Wisconsin Avenue Bethesda, MD 20889	WSSC
21	Naval Support Facility Carderock	9500 MacArthur Blvd. West Bethesda, MD 20817	DC Water
22	Nixon Uniform Services, Inc.	11860 Old Baltimore Pike Beltsville, MD 20705	WSSC
23	Oaks Sanitary Landfill	6001 Olney-Laytonsville Road Laytonsville, MD 20706	WSSC
24	Pepsi Beverages Company	2611 Pepsi Place Cheverly, MD 20781	WSSC
25	Potomac Water Filtration Plant	12200 River Road Potomac, MD 20854	WSSC
26	Ritchie Rubble Landfill	2001 Ritchie Marlboro Road Upper Marlboro, MD 20774	WSSC
27	UniFirst Corporation	6201 Sheriff Road Landover, MD 20785	WSSC
28	United States Geological Survey	12201 Sunrise Valley Drive Reston, VA 20192	Fairfax County
29	WMATA Bladensburg Bus Division	2250/51 26th Street, NW Washington, DC 20018	DC Water
30	WMATA Brentwood Major Repair and Overhaul Yard (Rail Yard)	601 T Street, NE Washington, DC 20018	DC Water
31	WMATA Greenbelt (Rail Yard)	5801 Sunnyside Ave. Beltsville, MD 20705	WSSC
32	WMATA Shady Grove (Rail Yard)	15903 Somerville Dr. Rockville, MD 20855	WSSC
33	WMATA Shepherd Parkway Bus Division	2 DC Village, SW Washington, DC 20032	DC Water
34	Watergate Partners LLC (formerly Greenpenz, 2600 Virginia Ave., LLC)	2500 Virginia Ave., NW Washington, DC 20037	DC Water

**Section I Attachment (continued)**  
**Summary of Blue Plains AWTP Significant Industrial Users**

**Additions to the 2015 List of Industrial Users:**

1. GlaxoSmithKline (WSSC) – new NSIU permit effective January 10, 2017

**Deletions to the 2016 List of Industrial Users:**

1. Bethesda Art Metal Works (WSSC) – permit modified to a Zero Discharger on October 31, 2017
2. Flex-El (WSSC) – permit modified to a Zero Discharger on May, 17, 2016, and facility completely closed in June 2017
3. WMATA – Northern Bus Division (DC Water) – permit reclassified as a Non-Significant Industrial User on June 25, 2017
4. WMATA – Western Bus Division (DC Water) – permit reclassified as a Non-Significant Industrial User on March 15, 2017

**Section II Attachment**  
**Summary of Blue Plains AWTP Significant Industrial Users**

**Table 3. Summary of Categorical Industrial User Inspection and Monitoring Activities for 2017**

#	Categorical Industrial User	Permit Issuance <sup>(1)</sup>	Permit Effective	Permit Expiration	No. of Inspections	No. of Sampling Events		
						by POTW	by IU	Required
1	Adelphi Laboratory Center	05/19/16	05/22/16	06/30/20	2	2*	4 <sup>(1)</sup>	4 <sup>(1)</sup>
2	ATK Space Systems	06/20/16	06/21/16	06/20/20	2	1	8	8
3	Bureau of Engraving and Printing	08/28/14	09/01/14	08/31/18	1	1	6*	6*
4	Eaton Corporation	06/27/16	06/28/16	06/27/20	1	1*	8	8
5	Emergent BioSolutions	10/03/16	10/03/16	10/02/20	2	3*	8	8
6	Human Genome (LSM)	01/10/15	01/10/15	01/09/19	2	2*	8*	8
7	Human Genome (SSM)	10/20/16	10/22/16	10/21/20	3	2*	9*	8*
8	InnoScience, Inc.	10/03/16	10/03/16	10/02/20	2	0 <sup>(2)</sup>	0 <sup>(2)</sup>	8
9	Maryland Metal Plating & Polishing	06/09/16	06/12/16	06/11/20	3	2*	8	8
10	Mid-Atlantic Finishing, Inc.	05/22/16	05/22/16	05/21/20	2	2*	8	8
11	Precision Sheet Metal Supply	11/20/13	11/20/13	11/19/18	1	1	2*	2*
12	TTM Technologies NA	12/31/15	11/01/15	10/31/20	1	1	12	12
13	United Therapeutics Corp.	09/30/15	09/30/15	09/29/19	2	2* <sup>(1)</sup>	8* <sup>(1)</sup>	8 <sup>(1)</sup>
14	University of MD/DOD Physical Sciences Lab	06/23/16	06/27/16	06/26/20	1	2*	10	10

\*Additional pH monitoring conducted.

(1) Additional sampling events required for additional compliance monitoring location(s) – see WSSC Attachment D  
(2) No process flows during 2017



**Section II Attachment (continued)  
Summary of Blue Plains AWWTP Significant Industrial Users**

**Table 4. Summary of Significant Non-categorical Industrial User Inspection and Monitoring Activities for 2017**

#	Categorical Industrial User	Permit Issuance <sup>(1)</sup>	Permit Effective	Permit Expiration	No. of Inspections	No. of Sampling Events	
						by POTW	by IU Required
1	Amtrak	06/28/12	07/01/15	06/30/19	1	1	2*
2	Capitol Power Plant	09/25/15	10/01/15	09/30/19	1	1	2*
3	Coca-Cola Bottling Company Consolidated	06/06/16	06/06/16	06/05/20	2	2*	8*
4	District Apartments Realty Holding Co., LLC	12/18/15	12/18/15	12/17/19	1	1	2
5	District Photo, Inc.	06/09/16	06/13/16	06/12/20	2	1*	8
6	Fairfax Water	12/20/17	01/01/18	12/31/20	1	2	C <sup>(2)</sup>
7	Fort Detrick-Forest Glen Annex	09/22/16	09/22/16	09/21/20	2	1*	8
8	GSA Central Heating and Refrigeration Plant	06/10/16	06/12/16	06/11/20	1	1	2*
9	George Bush Center for Intelligence	12/29/17	01/01/18	12/31/22	1	2	0 <sup>(3)</sup>
10	GlaxoSmithKline	01/09/17	01/10/17	01/09/21	2	2*	10
11	Huntsman P&A Americas	06/28/16	06/28/16	06/27/20	2	1*	4 <sup>(4)</sup>
12	Marva Maid of Landover	07/26/16	07/28/16	07/27/20	2	2*	8*
13	MedImmune, Inc.	02/01/16	02/04/16	02/03/20	2	1*	9*
14	Metropolitan Washington Airports Authority – Dulles	11/05/15	12/01/15	11/30/19	1	1	4+6 <sup>(5)</sup>

**Section II Attachment (continued)**  
**Summary of Blue Plains AWTP Significant Industrial Users**

**Table 4. Summary of Significant Non-categorical Industrial User Inspection and Monitoring Activities for 2017 (continued)**

#	Categorical Industrial User	Permit Issuance	Permit Effective	Permit Expiration	No. of Inspections	No. of Sampling Events	
						by POTW	by IU Required
15	National Archives and Records Administration	10/11/16	10/11/16	10/10/20	2	2*	16
16	National Institute of Standards & Technology	05/26/16	06/01/16	05/31/20	2	2*	10
17	National Institutes of Health	06/02/16	06/06/16	06/05/20	1	1*	8
18	National Institutes of Health – (NIAID/Fishers Lane)	05/19/17	05/19/17	05/18/21	1	2*	11
19	Naval Research Laboratory	09/09/16	09/11/16	09/10/20	1	1	10
20	Naval Support Activity Bethesda	08/29/16	08/31/16	08/30/20	2	1*	9*
21	Naval Support Facility Carderock	04/27/16	04/27/16	03/14/20	1	1	2
22	Nixon Uniform Services, Inc.	06/27/16	06/28/16	06/27/20	1	1*	8*
23	Oaks Sanitary Landfill	08/29/16	08/31/16	08/30/20	3	2	14
24	Pepsi Beverages Co.	06/20/16	06/22/16	06/21/20	2	2*	8*
25	Potomac Water Filtration Plant	09/08/16	10/05/16	10/04/20	1	1*	10*
26	Ritchie Rubble Landfill	02/06/17	02/08/17	02/07/21	1	1	9
27	UniFirst Corporation	05/26/16	05/30/16	05/29/20	3	2*	14*
28	United States Geological Survey	12/20/17	01/01/18	12/31/20	1	2	0 <sup>(3)</sup>
29	WMATA Bladensburg Bus Division	11/15/16	12/02/16	12/01/20	1	1	2
30	WMATA Brentwood MROY	07/08/16	07/22/16	07/21/20	1	1	2

**Section II Attachment (continued)**  
**Summary of Blue Plains A WTP Significant Industrial Users**

**Table 4. Summary of Significant Non-categorical Industrial User Inspection and Monitoring Activities for 2017 (continued)**

#	Categorical Industrial User	Permit Issuance	Permit Effective	Permit Expiration	No. of Inspections	No. of Sampling Events Required	
						by POTW	by IU
31	WMATA Greenbelt Yard	09/04/15	09/04/15	09/03/19	1	2*	8
32	WMATA Shady Grove Yard	03/23/14	03/23/14	03/22/18	2	2*	8
33	WMATA Shepherd Parkway Bus Division	09/25/15	09/30/15	09/29/19	1	1	2
34	Watergate Partners LLC	11/05/14	11/22/14	11/21/18	1	1	2

\* Additional pH monitoring conducted.

- (1) Original permit issuance dates.
- (2) C = Continuous monitoring for pH only.
- (3) Fairfax County conducts all sampling for this IU and does not require self-monitoring.
- (4) No process flow for 1<sup>st</sup> and 2<sup>nd</sup> quarters 2017.
- (5) MWAA Dulles Airport is required to conduct daily monitoring on the glycol discharge. Discharged 6 times during 2017.

**Table 5. Summary of Inspection and Monitoring Activities for Users No Longer Permitted as a SIU as of December 31, 2017**

#	Industrial User	Permit Issuance	Permit Effective	Permit Expiration	No. of Inspections	No. of Sampling Events Required	
						by POTW	by IU
1	Bethesda Art Metal Works (WSSC)	7/28/16	8/11/16	Reclassified as Zero Discharger on 10/31/17	5	1	2*

\*No process discharge during 2<sup>nd</sup>, 3<sup>rd</sup>, or 4<sup>th</sup> quarters.

**Section II Attachment (continued)**  
**Summary of Blue Plains AWWTP Significant Industrial Users**

**List of SIUs Covered by a General Control Mechanism**  
Not Applicable

**List of CIUs Assigned Mass-Based Limits in place of Concentration-Based Limits**  
None

**List of CIUs With Waivers for Categorically Regulated Pollutants**  
None

**List of Facilities Not Inspected During 2017:**  
None

**List of Facilities Not Sampled by POTW During 2017:**

1. InnoScience (WSSC) – No process flow discharged during 2017.

**List of Facilities Submitting Less Than the Required Number of Self-Monitoring Reports:**

1. Huntsman P&A Americas, LLC (WSSC) – no process flow in 1<sup>st</sup> and 2<sup>nd</sup> quarters in 2017.
2. InnoScience, Inc. (WSSC) - no process flow in 2017.

Notes: (1) George Bush Center for Intelligence and the US Geological Survey are not required to submit self-monitoring reports since all sampling for these SIUs is conducted by Fairfax County.

(2) All self-monitoring reports received by DC Water through 1/15/18 were counted as received in 2017.

**Section III Attachment**  
**Summary of Blue Plains AWTP Significant Industrial Users**

**Table 6. List of SIUs in SNC During 2017**

Industrial User	Reason for SNC	Evaluation Period	Actions Planned or Taken	Status
National Institutes of Health - NIAID (WSSC)	Technical Review Criteria (TRC) violation for daily max Hg limit	Apr – Sept 2017	Notice of Violation, Directive, Additional Monitoring, Publication	Pending
Human Genome Sciences, Inc. (SSM) (WSSC)	TRC violation for monthly avg tetrahydrofuran limit	Jul – Dec 2017	Notice of Violation, Directive, Additional Monitoring, Publication	Pending
Naval Research Laboratory (DC Water)	TRC violation for daily max PCB limit	Jan – Jun 2017	Administrative Order, Additional Monitoring, Fine, Publication	In compliance
Naval Support Facility Carderock (DC Water)	Failure to conduct required permit monitoring	Jan – Jun 2017 Apr – Sept 2017 Jul – Dec 2017	Administrative Order, Additional Monitoring, Fine, Publication	Pending
Nixon Uniform Services, Inc. (WSSC)	Failure to notify	Jul – Dec 2017	Notice of Violation, Directive, Publication	In compliance

**List of Facilities in SNC for 2017 that were also in SNC for 2016:**

1. Naval Support Facility Carderock (DC Water)

**List of Users Previously Designated as Non-significant CIUs that have Violated a Pretreatment Standard or Requirement During 2017:**

Not applicable

**Newspaper Listing of SIUs in SNC During 2017:**

WSSC will provide their newspaper listing of SIUs in SNC no later than June 30, 2018.

DC Water published the newspaper listing of SIUs in SNC for 2017 on February 16, 2018. A copy of the notice is attached.

# CLASSIFIED

washingtonpost.com/classifieds

FRIDAY, FEBRUARY 16, 2018



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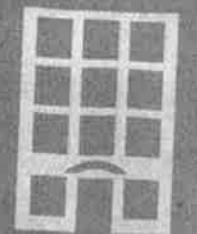
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Ken

205 **Antiques**

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them away. Call 571-830-5871

208 **Appliances**

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7128 Columbia Pike 22003 Adm.  
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info:shoffpromotions.com

235 **Electronics**

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Letter, 10% Buyers Premium, Online  
and Credit Card Purchases 13% Buy-  
ers Premium. Sale Manager: SAN

820 **Official Notices**

**DISTRICT OF COLUMBIA  
WATER AND SEWER AUTHORITY**  
**ANNUAL LIST OF INDUSTRIAL USERS  
IN SIGNIFICANT NONCOMPLIANCE FOR  
THE CALENDAR YEAR 2017**

Notice is hereby given that pursuant to Section 14 of the District of Columbia's Wastewater System Regulation Amendment Act of 1985, as amended (D.C. Law 6-95; D.C. Official Code §8-105.13), and the requirements of the U.S. Environmental Protection Agency, the following facilities were found to be in Significant Noncompliance with the District of Columbia Water and Sewer Authority's Industrial Wastewater Pretreatment Program requirements in 2017:

**Naval Research Laboratory** located at 4555 Overlook Ave. SW, Washington, DC, was issued Wastewater Discharge Permit No. 002-9 on September 9, 2016 and violated the local limit for Polychlorinated Biphenyls (PCBs) on May 17, 2017. This violation constitutes Significant Noncompliance (Technical Review Criteria violation). Enforcement action included an Administrative Order with a source investigation and additional monitoring for PCBs.

**Naval Support Facility Carderock** located at 9500 MacArthur Blvd, West Bethesda, MD, was issued Wastewater Discharge Permit No. 028-10 on April 27, 2016 ("Permit") and failed to conduct the required Permit monitoring for mercury during the January to March 2017 and July to September 2017 monitoring periods. This violation constitutes Significant Noncompliance. Enforcement action included an Administrative Order with additional monitoring for mercury.

Inquiries may be directed to:  
**DC Water and Sewer Authority  
Pretreatment Program Manager  
Department of Wastewater Treatment  
5000 Overlook Avenue, SW  
Washington, DC 20032  
202-787-4177**

610 **Dogs for Sale**

Boarder Collie—8 weeks old,  
201-998-0187  
Ready to go March 6

Cane Corso—\$800/OBO, Females,  
amos old, Vet Health Check, Tails  
Docked, Dewormed, Up to date  
shots Larnell Johnson, 202-207-7410

**DOBERMAN PUPPIES** - AKC, big  
boned, family raised, great tempera-  
ment, parents on premises, 8 weeks  
old, some have Ears done. All colors  
available. \$500-\$900. 240-674-2844  
or 240-674-3994

English Cream Retrievers—\$AKC reg.  
8-week old females. Beautiful color.  
In and out great bloodlines Great temp.

610 **Dogs for Sale**

Miniature Dachshund—  
\$1650 Male & Female Black  
9 weeks old, 240-454-4702

SHELTIE PUPPIES - AKC, tri and  
sable females. Ready to go now.  
Raised in home. Chambersburg, PA.  
Call 717-816-5161

Shi-A-Pap, T-Cup Yorkies—Adorable  
puppies, 304-904-6289, Cash, CC,  
Easy Finance, www.wypuppy.com,  
59 East Rd, Martinsburg WV, exit 16E

825 **Bids & Proposals**

**WAGMAN**  
General Construction | Heavy Civil | Geotechnical

Wagman Heavy Civil, Inc. is seeking Disadvantaged Business Enterprises (DBE), as certified by Virginia Unified Certification Program (VUCP). In accordance with 49 CFR Part 26 to join our pursuit on the following project:

Project	Description	Owner	Location	Bid Date
SWM Facilities for Phase 2 of the Dulles Corridor Metrorail Project	Design Build Project to install 17 SWM Ponds and Outfall	MWAA	Dulles, VA	Feb. 23, 2018

If interested in subcontracting, please contact:  
Jason Hershey, DBIA, Senior Estimator  
Phone: 717.767.8296 | Fax: 717.767.5457 | estimating@wagman.com

825 **Bids & Proposals**

**Purchasing Cooperative of America** will receive proposals until 11:00am CT on Tuesday, March 20, 2018 in the Bonfire application on the PCA Website for Region 3 ESC, 1905 Leary Ln, Victoria, TX 77901, for the following # of RFP national contracts: (1) RFP 3-186-18 Furniture, Fixtures, Equipment and Related Items; (2) RFP 3-187-18 Flooring, Products, Services, Installation, Maintenance and Related Items (UDC), RFP 3-188-18 Bulk Fuel, Additives, Grease and Related Items. NOTICE: PCA is holding a pre-proposal Meeting on February 21, 2018 at 11811 North Freeway (I-45N), 5th Floor, Houston, TX @ 10 a.m. - Noon. RSVP Required. Call 844-722-6374 x700 or 713-254-1858. Go to [www.pcamerica.org/solicitation](http://www.pcamerica.org/solicitation) for more information.

825 **Bids & Proposals**

**Notice of Publication  
Housing Opportunities Commission of Montgomery County  
FY 2019 PHA Plan**

The Housing Opportunities Commission of Montgomery County (HOC) has developed proposed revisions and new additions for its Fiscal Year (FY) 2019 Public Housing Agency (PHA) Plan. In compliance with the Quality Housing and Work Responsibility Act of 1998, these revisions and additions will replace the expiring FY 2018 Annual PHA Plan, and will update HOC's progress in meeting the goals and objectives described in HOC's FY 2015-2019 Five-Year PHA Plan. The revised and updated PHA Plan will serve as HOC's FY 2019 Annual PHA Plan.

These proposed changes to HOC's PHA Plan are available for review at HOC's main office at 10400 Detrick Avenue in Gaithersburg. HOC's Up-Country Office at 231 East Deer Park Drive in Gaithersburg, and HOC's two Customer Service Centers, 8241 George Avenue 3rd Floor in Silver Spring, and 101 Lakeforest Blvd., #200, in Gaithersburg. The document revisions are also available on HOC's Web site at [www.hocmc.org](http://www.hocmc.org). HOC's hours are 8:30 AM to 5:00 PM, Monday through Friday.

HOC will hold a public hearing on these documents at 3:30 p.m. on April 4, 2018 at its Detrick Avenue location.

All written public comments may be directed by mail to Stacy Spann, Executive Director, at 10400 Detrick Avenue, Kensington, Maryland 20895 or e-mailed to [PHAPlanComments@hocmc.org](mailto:PHAPlanComments@hocmc.org)

The public comment period for these documents ends on April 4, 2018. To be considered, all comments must be received no later than on the day of the public hearing.

830 **Special Notices**

Lynwood B Andrews PHD is closing her practice. To obtain your records you must contact Dr. Andrews at (802) 549-7073, before retrieving them at 6270 Montrose Rd Rockville MD between 1-4PM on 3/21/18. All medical records will be destroyed after 3/21/18.

835 **Public Sale Notices**

IN ORDER TO ENFORCE ITS LIEN FOR UNPAID RENT, AMERICAN SELF STORAGE WILL SELL AT A

876 **Loudoun County**

TRUSTEE'S SALE OF  
23266 WATSON ROAD,  
LEESBURG, VA 20175

In execution of a Deed of Trust in the original principal amount of \$76,000.00, with an annual interest rate of 4.400000% dated July 31, 2007, recorded among the land records of the Circuit Court for the COUNTY OF LOUDOUN as

878 **Stafford County**

TRUSTEE'S SALE OF  
26 LINDSEY LANE,  
STAFFORD, VA 22556.

In execution of a certain Deed of Trust dated December 8, 2006, in the original principal amount of \$437,000.00 recorded in the Clerk's Office, Circuit Court for Stafford County, Virginia as instrument No. LR070003239. The

CERTIFICATE OF PUBLICATION

The Washington Post Company hereby certifies that it is the publisher of The Washington Post; that The Washington Post is a newspaper of general circulation, published daily in the City of Washington, District of Columbia; that The Washington Post has been so published continuously for more than one year prior to the date of first publication of the notice mentioned below; that the undersigned person is the duly authorized agent of The Washington Post Company to execute this certificate on its behalf; and that a notice of which the annexed is a true copy was printed and published in said newspaper on the following date(s) at a cost of \$994.60 and was circulated in the Washington metropolitan area.

Published 1 time(s). Date(s):16 of February 2018

Account 1010020439

THE WASHINGTON POST

By

Nicole McKinney  
BILLING MANAGER

HWNT

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY ANNUAL LIST OF INDUSTRIAL USERS IN SIGNIFICANT NONCOMPLIANCE FOR THE CALENDAR YEAR 2017 Notice is hereby given that pursuant to Section 14 of the

District of Columbia's Wastewater System Regulation Amendment Act of 1985, as amended (D.C. Law 6-95; D.C. Official Code §8-105.13), and the requirements of the U.S. Environmental Protection Agency,

the following facilities were found to be in Significant Noncompliance with the District of Columbia

Water and Sewer Authority's Industrial Wastewater Pretreatment Program requirements in 2017:

Naval Research Laboratory located at 4555 Overlook Ave., SW, Washington, DC, was issued Wastewater Discharge Permit No. 002-9 on September 9 2016 and violated the local limit for Polychlorinated Biphenyls (PCBs) on May 17, 2017. This violation constitutes Significant Noncompliance (Technical

Review Criteria violation). Enforcement action included an Administrative Order with a source investigation and additional monitoring for PCBs. Naval Support Facility Carderock located at

9500 MacArthur Blvd, West Bethesda, MD, was issued Wastewater Discharge Permit No. 028-10 on April

27 2016 (#Permit") and failed to conduct the required Permit monitoring for mercury during the January to March 2017 and July to September 2017 monitoring periods. This violation constitutes Significant Noncompliance. Enforcement action included an Administrative Order with additional monitoring for mercury. Inquiries may be directed to: DC Water and Sewer Authority Pretreatment

Program Manager Department of Wastewater Treatment 5000 Overlook Avenue, SW Washington, DC 20032 202-787-4177



**Section IV Attachment**  
**Summary of Blue Plains AWTP Significant Industrial Users**

**Table 7. List of SIUs Receiving Written Notices of Violation in 2017**

<b>Categorical Significant Industrial User</b>	<b>Number of Written Notices Issued</b>
Adelphi Laboratory Center (WSSC)	1
Emergent BioSolutions (WSSC)	1
Human Genome - SSM (WSSC)	2
InnoScience, Inc. (WSSC)	1
TTM Technologies NA (Loudoun Water)	1
University of MD/DOD (WSSC)	1
<b>Non-Categorical Significant Industrial User</b>	<b>Number of Written Notices Issued</b>
Capitol Power Plant (DC Water)	2
Fort Detrick-Forest Glen Annex (WSSC)	1
National Archives and Records Administration (WSSC)	1
National Institute of Standards and Technology (WSSC)	1
National Institutes of Health (NIAID) (WSSC)	1
Naval Support Activity Bethesda (WSSC)	4
Naval Support Facility Carderock (DC Water)	1
Nixon Uniform Services (WSSC)	3
Oaks Sanitary Landfill (WSSC)	1
Potomac Water Filtration Plant (WSSC)	1
Unifirst Corporation (WSSC)	5
WMATA Shady Grove (WSSC)	1



**Section IV Attachment (continued)**  
**Summary of Blue Plains AWTP Significant Industrial Users**

**Table 8. List of SIUs Receiving Administrative Orders/Enforceable Compliance Schedules in 2017 and First Quarter 2018 (if violation occurred in 2017) and Number Issued**

<b>Categorical Significant Industrial User</b>	<b>Number of Orders/Directives Issued</b>
Adelphi Laboratory Center (WSSC)	2
Human Genome - SSM (WSSC)	2
InnoScience, Inc. (WSSC)	2
<b>Non-Categorical Significant Industrial User</b>	<b>Number of Orders/Directives Issued</b>
MedImmune, Inc. (WSSC)	1
National Archives and Records Administration (WSSC)	1
National Institute of Standards and Technology (WSSC)	1
National Institutes of Health (NIAID) (WSSC)	2
Naval Research Laboratory (DC Water)	1
Naval Support Activity Bethesda (WSSC)	4
Naval Support Facility Carderock (DC Water)	1
Nixon Uniform Services (WSSC)	3
Unifirst Corporation (WSSC)	4
WMATA Shady Grove (WSSC)	1

**Section IV Attachment (continued)**  
**Summary of Blue Plains AWTP Significant Industrial Users**

**Table 9. List of Administrative Orders/Enforceable Compliance Schedules Issued to SIUs in 2017 and First Quarter 2018 (if violation occurred in 2017):**

Significant Industrial User	Date Issued	Type of Schedule	Reason	FCD	Status	By FCD ?
Adelphi Laboratory Center (WSSC)	03/17/17	Directive	Corrective Measures	03/24/17	Compliance	NA
Adelphi Laboratory Center (WSSC)	11/29/17	Directive	Corrective Measures	12/14/17	Compliance	NA
Human Genome Sciences (SSM) (WSSC)	06/27/17	Directive	Corrective Measures	07/01/17	Compliance	NA
Human Genome Sciences (SSM) (WSSC)	01/12/18	Directive	Corrective Measures	02/28/18	Interim	Yes
<b>InnoScience, Inc. (WSSC)</b>	<b>06/27/17</b>	<b>Directive</b>	<b>Complete Facility Shutdown</b>	<b>07/14/17</b>	<b>Non-compliance</b>	<b>No</b>
InnoScience, Inc. (WSSC)	02/28/18	Directive	Complete Facility Shutdown	03/09/18	Interim	Yes
MedImmune, Inc. (WSSC)	02/07/18	Directive	Corrective Measures	02/21/18	Compliance	Yes
National Archives and Records Administration (WSSC)	06/08/17	Directive	Corrective Measures	06/15/17	Compliance	NA
National Institute of Standards and Technology (WSSC)	08/11/17	Directive	Corrective Measures	08/31/17	Compliance	NA
National Institutes of Health (NIAID) (WSSC)	01/02/18	Directive	Corrective Measures	01/26/18	Compliance	Yes
National Institutes of Health (NIAID) (WSSC)	01/02/18	Directive	Corrective Measures	01/26/18	Compliance	Yes
<b>Naval Research Laboratory (DC Water)</b>	<b>08/15/17</b>	<b>Order</b>	<b>SNC</b>	<b>03/31/18</b>	<b>Compliance</b>	<b>Yes</b>
Naval Support Activity Bethesda (WSSC)	03/29/17	Directive	Corrective Measures	04/10/17	Compliance	NA
Naval Support Activity Bethesda (WSSC)	06/19/17	Directive	Corrective Measures	06/30/17	Compliance	NA

**Section IV Attachment (continued)**  
**Summary of Blue Plains AWTP Significant Industrial Users**

**Table 9. Description of Administrative Orders/Enforceable Compliance Schedules Issued to SIUs in 2017 and First Quarter 2018 (if violation occurred in 2017) (continued):**

<b>Significant Industrial User</b>	<b>Date Issued</b>	<b>Type of Schedule</b>	<b>Reason</b>	<b>FCD</b>	<b>Status</b>	<b>By FCD ?</b>
Naval Support Activity Bethesda (WSSC)	11/03/17	Directive	Corrective Measures	11/27/17	Compliance	NA
Naval Support Activity Bethesda (WSSC)	12/14/17	Directive	Resample	12/28/17	Compliance	NA
<b>Naval Support Facility Carderock (DC Water)</b>	<b>11/03/17</b>	<b>Order</b>	<b>SNC</b>	<b>07/16/18</b>	<b>Interim</b>	<b>Yes</b>
Nixon Uniform Services, Inc. (WSSC)	09/25/17	Directive	Pretreatment Modifications	10/06/17	Compliance	NA
Nixon Uniform Services, Inc. (WSSC)	11/29/17	Directive	Pretreatment Modifications	12/15/17	Compliance	NA
Nixon Uniform Services, Inc. (WSSC)	12/19/17	Directive	Pretreatment Modifications	12/30/17	Compliance	NA
Unifirst Corporation (WSSC)	04/25/17	Directive	Corrective Measures	06/26/17	Compliance	NA
Unifirst Corporation (WSSC)	06/23/17	Directive	Corrective Measures	07/07/17	Compliance	NA
Unifirst Corporation (WSSC)	10/04/17	Directive	Corrective Measures	10/15/17	Compliance	NA
Unifirst Corporation (WSSC)	12/06/17	Directive	Corrective Measures	12/15/17	Compliance	NA
WMATA Shady Grove (WSSC)	11/08/17	Directive	Corrective Measures	11/10/17	Compliance	NA

**List of SIUs on compliance schedules that are in writing but not considered “formal”:**

None

**List of SIUs Sued in 2017:**

None

**Section IV Attachment (continued)**  
**Summary of Blue Plains AWTP Significant Industrial Users**

**Table 10. List of SIUs Assessed/Collected Penalties in 2017:**

#	Significant Industrial User	Amount Assessed	Amount Collected	Reason	Assessed in Previous Years?
1	Naval Research Laboratory	\$600	\$0*	TRC PCB violation resulting in SNC	NA
2	Naval Support Facility Carderock	\$900	\$0*	Failure to conduct required permit monitoring	NA
3	Unifirst Corporation (WSSC)	\$250	\$250	Failure to submit complete PCR	NA
		\$500	\$500		
		\$250	\$250	Oil and Grease violation	
		\$500	\$500	Oil and Grease violation	

\*Federal facilities exempt from fines due to sovereign immunity.

**Description of all Actions Included as Administrative Orders:**

- Naval Research Laboratory (DC Water)** - The DC Water and Sewer Authority issued an Administrative Order (Notice of Infraction and Proposed Order) to Naval Research Laboratory on August 15, 2017 to address a Technical Review Criteria (TRC) violation of the PCB discharge limitation on May 17, 2017, resulting in Significant Noncompliance. The order required follow-up monitoring, PCB inventory and source evaluation, and payment of a fine. The fine was then waived due to sovereign immunity of federal facilities per DC Water precedent. Follow-up monitoring and the PCB inventory and source evaluation are being conducted. The final compliance date of March 31, 2018, is expected to be met.
- Naval Support Facility Carderock (DC Water)** - The DC Water and Sewer Authority issued an Administrative Order (Notice of Infraction and Proposed Order) to NSF Carderock on November 3, 2017 to address failure to conduct required quarterly monitoring for mercury during the following quarters: July to September 2016, January to March 2017, and July to September 2017, resulting in Significant Noncompliance for calendar years 2016 and 2017. The order required follow-up monitoring and payment of a fine. The fine was then waived due to sovereign immunity of federal facilities per DC Water precedent. Follow-up monitoring will be conducted and the final compliance date of July 16, 2018, is expected to be met.

**Section IV Attachment (continued)**  
**Summary of Blue Plains AWTP Significant Industrial Users**

**Description of "Other Actions":**

1. Fairfax Water (Fairfax County) was issued a verbal NOV on January 30, 2017, for a minor inaccuracy in the 4<sup>th</sup> quarter 2016 periodic compliance report submitted on January 6, 2017.
2. George Bush Center for Intelligence (Fairfax County) – was issued a verbal warning in November 2017 for failure to submit flow reports by the due dates (reports were submitted on November 20, 2017).
3. Precision Sheet Metal (Fairfax County) – was issued a verbal NOV by the Town of Herndon on April 19, 2017, for a minor inaccuracy in the periodic compliance report.
4. Precision Sheet Metal (Fairfax County) – was issued a verbal NOV by the Town of Herndon on July 17, 2017, for submittal of a periodic compliance report signed by a person not designated as the authorized representative

**List of SIUs with SNC Violations Not Subject to Enforcement:**

None

**PART B**  
**PRETREATMENT DEVELOPMENTS**

**I. Summary of POTW Operations**

1. There were no NPDES permit violations in 2017 at the Blue Plains Advanced Wastewater Treatment Plant (AWTP). Furthermore, there were no instances of major problems (e.g., corrosion, fire or explosive hazards, sewer blockages) in the collection system that may have been attributable to industrial wastes.
2. As required by the NPDES permit, plant influent, effluent, and biosolids data for all local limit parameters are submitted to EPA Region III on a quarterly basis with the Discharge Monitoring Reports (DMRs) by the 28th day of the following month. Additionally, a complete priority pollutant scan is conducted annually on the influent and biosolids. The 2017 influent, effluent, and biosolids concentrations for the local limit pollutants are provided in a summary table in Attachment 6. The annual priority pollutant scans and additional toxics data collected, but not documented in the summary table, are also provided in Attachment 6.

Influent values are calculated based on an estimated flow-weighted average of three contributing waste streams and are reported as "<" if at least one of the individual waste streams was non-detect (below the MDL/RDL or method/reporting detection limit) for that parameter. Influent goals are based on EPA Region III's evaluation of DC Water's local limits published in the DC Register on September 10, 2010. Influent goals were consistently met in 2017, and in general, influent pollutant concentrations have remained fairly consistent with minor fluctuations. There is a slight upward trend for influent selenium and silver over the last two years, but still orders of magnitude below the influent goal. A seasonal peak for molybdenum during 3<sup>rd</sup> quarter sampling has been consistent over the last seven years, most likely due to an increase in cooling tower discharges during this season.

3. DC Water currently accepts hauled waste from domestic, commercial, and pre-approved industrial sources at the headworks to the Blue Plains AWTP. Additional hauled waste is received at designated septage receiving stations in the Blue Plains service area from WSSC and Loudoun Water. Fairfax County did not discharge any hauled waste to Blue Plains in 2017, and they permanently shut down their Colvin Run septage receiving station in April 2017. Table B-1 summarizes the hauled waste contributions to the Blue Plains AWTP. Loudoun Water periodically uses the backup septage receiving station that discharges to the Potomac Interceptor (and ultimately to the Blue Plains AWTP) when their main septage receiving facility is down. No brine wastes (oil and gas drilling wastes) are accepted at any of the designated septage receiving stations.

DC Water, WSSC, and Loudoun Water require waste hauler permits. As of December 31, 2017, DC Water had 32 permitted waste haulers, WSSC had 47 permitted waste haulers (excluding buses, RV's, and including zero discharge haulers), and Loudoun Water had 16 permitted waste haulers. All jurisdictions require manifest forms to document the source and volume of each hauled waste load discharged.

**PART B (Continued)**

**PRETREATMENT DEVELOPMENTS**

**I. Summary of POTW Operations (Continued)**

**Table B-1. Summary of Hauled Waste Discharged to the Blue Plains AWTP**

<b>Jurisdiction</b>	<b>Discharge Site</b>	<b>Sources of Wastewater*</b>	<b>Estimated Volume/Yr.</b>	<b>Controls on Users</b>
DC Water	Blue Plains AWTP	Domestic, commercial, and non-wastewater	25.7M gal/yr	Manned site, permits, manifests, random sampling
WSSC	Muddy Branch	Domestic and commercial	5.8M gal/yr (grease waste) 4.2M gal/yr (septic waste)	Permits, manifests, restricted hours, surveillance cameras, fines, random sampling
WSSC	Muddy Branch	IU - Dickerson Generating Station (domestic sewage sludge)	2,500 gal/year	Contract, self-monitoring
WSSC	Muddy Branch or Tanglewood	SIU – Ritchie Rubble Landfill (leachate)	723,906 avg gal/mo 80,000 gpd max	SIU Permit, self-monitoring
WSSC	Tanglewood	Domestic Septage	37,550 gal/yr	Permits, manifests, restricted hours, surveillance cameras, fines
WSSC	Montgomery Co. Solid Waste Disposal Site	SIU - Oaks Sanitary Landfill (leachate), also includes water from catch basin cleaning in the county	Avg 28,009 gpd 80,000 gpd max	SIU permit, self-monitoring
Loudoun Water	Manhole S-17	Domestic septage	202,816 gal/yr	Permits, manifests, restricted access, surveillance camera, random sampling
Loudoun Water	Manhole S-17	IU – Bechtel cleaning wastewater	570,000 gal (<25,000 gpd)	Contract with DC Water, self-monitoring, manifests

\*Domestic sources of hauled wastewater are primarily septic holding tanks and portable toilets. The majority of commercial wastewater is from grease traps. Other commercial sources of hauled wastewater are from building sumps/sewage ejector pits and car wash interceptors. Industrial waste is from treatment plant sludge, landfill leachate, and industrial cleaning wastewater. Non-wastewater sources include groundwater and storm runoff.

**PART B (Continued)**  
**PRETREATMENT DEVELOPMENTS**

**I. Summary of POTW Operations (Continued)**

3. In 2017, the Blue Plains AWTP Septage Receiving Facility received on average 2.1 million gallons of hauled waste or 893 loads per month. Random sampling is conducted by DC Water typically twice a month and waste is typically analyzed for pH, oil and grease, total metals, PCBs, and conventional pollutants. Trucked waste must currently meet local limits. Fourteen notices of violation (NOVs) were issued to haulers in 2017 for exceedances of local limits, typically for pH, copper, and/or zinc and occasionally for total petroleum hydrocarbons and other heavy metals. On two occasions, the NOV was for out of service waste, which is currently not accepted. On one occasion, PCBs was detected below the minimum reporting limit of 1.0 ug/L. Resampling of the truck and/or source is required for any PCB detections or high level metals. Typical corrective action is to increase the frequency of the pump-out for the customer with elevated metals concentrations. If a source is identified in violation more than once, then it is typically banned for disposal at the Blue Plains AWTP, until the user can demonstrate compliance through self-monitoring of the waste. No hauled waste violations have resulted in plant upset or interference.

Many of the SIUs within the District have waste hauled off-site for disposal. Table B-2 summarizes the information updated during the 2017 inspections. Recycled wastes including used oil, fryer oil, and silver recovery waste are not included in this table.

**II. Pretreatment Program Changes**

**Staffing, Funding, and Local Limits**

There were no significant changes in staffing and funding for the District or contributing user jurisdiction pretreatment programs (WSSC, Fairfax County, and Loudoun Water) in 2017. Some minor staffing changes occurred in the jurisdiction pretreatment programs and DC Water continued to utilize part-time temporary assistance. There were no changes to the local limits approved by EPA Region III on May 25, 2010 and adopted by DC Water in a Final Rulemaking published on September 10, 2010. Adoption of new local limits by WSSC does not impact those facilities discharging to Blue Plains, unless limits are more stringent than EPA-approved DC Water local limits.



**PART B (Continued)**  
**PRETREATMENT DEVELOPMENTS**

**Table B-2. Summary of Hauled Waste from SIUs in the District**

Type of Hauled Waste	Description of Operations	Name(s) of Facilities Used by SIUs for Waste Disposal and Disposal Location (if known)
Oily wastewater/pretreatment sludge and other non-hazardous waste	Maintenance cleaning activities, treatment residuals, printing	Atlantic Wastewater Solutions (Fairfax, VA) Clean Harbors (Baltimore, MD/Reidsville, NC) Clean Ventures (Cycle Chem/Lewisburg, PA) Hepaco Heritage Crystal Clean (Alexandria, VA) IMS (Norfolk, VA) Onsite Environmental Safety Kleen (Manassas, VA) Sphinx (Spirit Services in Williamsport, MD) Tradebe (E. Chicago, IN) Triumvirate Environmental
Grease trap waste	Treatment residuals	Adams Liming and Septic Tank (Fairfax, VA) Burns Septic (WSSC) H&R Environmental Clean Harbors (Baltimore, MD) Magnolia Plumbing (WSSC and Blue Plains)
Spent car wash reclaim	Vehicle cleaning activities	Capitol Tank and Drain (UOSA, VA) LNT Enterprises Onsite Environmental Parr Industries Safety Kleen (Manassas, VA)
Hazardous waste	Cleaning, lab waste, solvent use, treatment residuals, etc.	Clean Harbors (Baltimore MD/Reidsville, NC) Clean Ventures (Cycle Chem/Lewisburg, PA) EMSI (Env Enterprises/Cincinnati, OH) Tradebe (E. Chicago, IN)

**III. Miscellaneous Developments**

**Dental Program Regulations**

DC Water published the Final Rulemaking for the Dental Program Regulations on January 19, 2018 (attached to the end of Part B). All existing dental facilities within the District are required to submit a dental facility wastewater discharge questionnaire by July 14, 2018, documenting their applicability to the new rule, to assist DC Water in tracking compliance with the regulation. DC Water will use a combination of email, website, and postal service mailings to disseminate information and forms and has provided the regulation and forms to the DC Dental Society to email to their members. DC Water obtained a list of dentists licensed to practice in the District (approximately 1,100) from the DC Department of Health and has sorted the list to compile a subset list of dental facilities, based on common addresses to use for postal service mailing and tracking receipt of questionnaires and One-Time Compliance Reports.

**PART B (Continued)**  
**PRETREATMENT DEVELOPMENTS**

**III. Miscellaneous Developments (continued)**

**Dental Program Regulations**

WSSC obtained dental licensing information from the Maryland Board of Dental Examiners and sent out 1,701 dental surveys in 2017. Of the 505 surveys received: 176 dental facilities are not subject to the dental amalgam rule; 208 facilities are subject to the rule and are in compliance with requirements; and 121 dental facilities are subject to the rule and are not in compliance yet. In addition to the survey, WSSC staff attended a monthly meeting of the Southern Maryland Dental Society Association to disseminate information on the new regulations and requirements.

For all Virginia jurisdictions, including Loudoun Water, Town of Vienna, and Fairfax County, the Virginia Department of Environmental Quality (VDEQ) will act as the Control Authority for all dental dischargers, thus centralizing the Virginia Dental Rule Compliance Form collection and tracking compliance with the Rule. VDEQ has set up a website for dentists to submit forms online and will provide jurisdictions a summary of the reports. Fairfax County will take additional steps to ensure compliance within Fairfax County, including sending notices of the requirements to dental service providers, coordinating with building plan reviewers to identify new dental service provider facilities, distributing an educational brochure, conducting spot inspections of dental service providers, and sending out notices to non-compliant providers.

**Control of Batch Discharges During Wet Weather**

As part of the Combined Sewer Overflow (CSO) Nine Minimum Controls, DC Water is required by NPDES permit to 1) use pretreatment regulations to control any industrial discharges that may be identified as impacting CSOs and 2) to require permitted SIUs discharging directly to the CSS to establish management practices to control batch discharges during wet weather conditions whenever possible.

As of December 31, 2017, there are five (5) SIUs that currently discharge directly to the combined sewer system. One of the facilities listed in 2016, WMATA-Northern Bus Division was reclassified as a Non-Significant Industrial User in 2017. A list of these facilities is provided in Table B-3. Each facility has a permit requirement to prepare an annual report identifying all batch discharges to the combined sewer system, with the exception of the Watergate Hotel, currently permitted as Watergate Partners LLC, and District Apartments Realty Holding Company, LLC, which are only permitted for their groundwater remediation systems and have a continuous operation. These annual reports were due March 31, 2017. Following DC Water review, it was determined that all SIU discharges were either continuous or intermittent and that none of these discharges met the definition of a batch discharge. DC Water is not requiring development of management practices to control intermittent discharges at this time, since no pollutants of concern in combined sewer overflows have been attributed to these discharges.

**PART B (Continued)**  
**PRETREATMENT DEVELOPMENTS**

**III. Miscellaneous Developments**

**Table B-3. Significant Industrial Users Discharging Directly to Combined Sewers**

#	Permit No.	Industrial User	Facility Address	Batch/Intermittent Discharges
1	011	Amtrak (including High Speed Rail facility)	1401 W Street, NE Washington, DC 20018	Train Wash
2	022	Capitol Power Plant	N. Jersey Ave & E St., SE Washington, DC 20003	None
3	057	District Apartments Realty Holding Co., LLC	1401 S St., NW Washington, DC 20009	None (no report required treated groundwater only)
4	039	Watergate Partners, LLC	2500 Virginia Ave., NW Washington, DC 20037	None (no report required treated groundwater only)
5	053	WMATA Brentwood Yard	601 T Street, NE Washington, DC 20018	Steam Cleaning

**Pollution Prevention**

DC Water has incorporated pollution prevention (P2) surveys into the routine annual inspections of SIUs. P2 surveys are conducted every two years and significant P2 accomplishments or deficiencies may be noted annually in the inspection report. These surveys were last conducted in 2016. DC Water's public education efforts to reduce influent mercury concentrations include posting educational content on our website and permitting hospitals in the area (as Non-Significant Industrial Users). Additional educational content on PCBs is also on our website.

WSSC continued to promote and dedicate resources to a number of pollution prevention initiatives in 2017 including the following:

- Industrial User training classes;
- Annual Pretreatment Bulletin; and
- Continuation of the annual Pollution Prevention Award program (awarded to Human Genome Sciences (LSM) in June 2017).

**Industrial User Survey**

DC Water conducts occasional surveys, sampling, and/or inspections of non-permitted commercial/ industrial users to determine whether facilities should be permitted and assist them in conforming to the District of Columbia municipal regulations on wastewater discharges. DC Water has developed a network of contacts at other agencies in the District of Columbia to obtain information on potential violators including the District Department of Public Works, the Mayor's Neighborhood Service Coordinators, and the District Department of Energy & Environment Hazardous Waste and Water Quality Divisions. In addition, DC Water periodically reviews queries of commercial and federal accounts for new connections and users that consume more than 25,000 gpd of water.

**PART B (Continued)**  
**PRETREATMENT DEVELOPMENTS**

**III. Miscellaneous Developments (continued)**

**Temporary Discharge Authorizations**

As of December 31, 2017, DC Water had 72 active Temporary Discharge Authorization (TDA) permits for discharges to the sanitary or combined sewer system consisting primarily of construction dewatering, façade cleaning, and other miscellaneous discharges. The maximum permit term is two years. Most of these permits require periodic self-monitoring, depending on flow and the characteristics of the wastewater discharge.

**IV. Signatory Requirements**

The Assistant General Manager (AGM) of Blue Plains has signed Part A of this report. This individual is directly responsible for wastewater treatment plant operations and has been authorized to sign the report by the General Manager (written authorization letter to EPA Region III dated January 27, 2016, previously submitted).

**Attachment 1**

**Part A with attachments for Significant Industrial  
Users (SIUs) in the District of Columbia**

**PART A  
PRETREATMENT PERFORMANCE SUMMARY**

**I. General Information**

Control Authority Name		DC Water and Sewer Authority			
Address		5000 Overlook Ave., SW			
City	Washington	State	DC	Zip+4	20032
Contact Person	Aklile Tesfaye	Telephone No.	202-787-4008		
Contact Title	AGM Blue Plains	E-mail Address	atesfaye@dcwater.com		
NPDES No.	DC 0021199	Reporting Period	01-01-17 to 12-31-17		
Issuance Date	08/31/10	Expiration Date*	09/30/15		
Total CIUs	1	Total MTCIUs	0		
Total SNIUs	11	Total NSCIUs	0		

CIUs - Categorical Industrial Users

MTCIUs - Middle Tier Categorical Industrial Users

SNIUs - Significant Noncategorical Industrial Users

NSCIUs - Nonsignificant Categorical Industrial Users

**II. Compliance Monitoring Program**

1. No. of SIUs with current Control Documents.....	12
2. No. of SIU Facilities Inspected.....	12
3. No. of SIU Facilities Sampled.....	12
4. No. of SIUs Submitting Self-Monitoring Reports.....	12


**III. Significant Industrial User Compliance**

1. No. of SIUs Violating a Compliance Schedule / No. on a Schedule.....	0/2
2. No. of SIUs in SNC for the July to December Period.....	1
3. No. of SIUs in SNC At Any Time During the Calendar Year.....	2
4. No. of SIUs in SNC That Were Also in SNC During the Previous Calendar Year	1
5. No. of NSCIUs that violated any standards or requirements	NA

**IV. Enforcement Actions**

1. Notices/Letters of Violation Issued to SIUs.....	3
2. Enforceable Compliance Schedules Issued to SIUs.....	2
3. Civil/Criminal Suits Filed.....	0
4. No. of SIUs from which Penalties have been Collected.....	0
5. Other Actions (sewer bans, etc.).....	0

I certify that the information contained in this report and attachments is complete and accurate to the best of my knowledge (see Part B.V of the instructions).

Aklile Tesfaye  
\_\_\_\_\_  
Name of Authorized Representative (Print)  


AGM Blue Plains  
\_\_\_\_\_  
Title (Print)  
3/22/18

\_\_\_\_\_  
Signature of Authorized Representative  
\*New NPDES permit has not been issued as of 12/31/17.

\_\_\_\_\_  
Date

**Section I Attachment**  
**District of Columbia Significant Industrial Users**

**Table 1. List of Categorical Industrial Users with DC Water Permits as of December 31, 2017**

#	Permit No.	Industrial User	Category	Facility Address
1	017-10	Bureau of Engraving and Printing	PSNS 433 metal finishing	14th and C Streets, SW Washington, DC 20228

**Table 2. List of Significant Non-categorical Industrial Users with DC Water Permits as of December 31, 2017**

#	Permit No.	Industrial User	Facility Address
1	011-9	Amtrak	1401 W St., NE, Washington, DC 20018
2	022-10	Capitol Power Plant	25 E St., SE, Washington, DC 20003
3	057-1	District Apartments Realty Holding Company, LLC	1401 S St., NW, Washington, DC 20009
4	019-10	GSA Central Heating and Refrigeration Plant	13th and C Streets, SW, Washington, DC 20407
5	025-10	MWAA – Dulles International Airport	44701 Propeller Court, Dulles, VA 20166
6	002-9	Naval Research Laboratory	4555 Overlook Ave., SW, Washington, DC 20375-5320
7	028-10	Naval Support Facility Carderock	9500 MacArthur Blvd., West Bethesda, MD 20817
8	008-11	WMATA Bladensburg Bus Division	2250/51 26th St., NW, Washington, DC 20018
9	053-7	WMATA Brentwood Major Repair and Overhaul Yard (Rail Yard)	601 T St., NE, Washington, DC 20018
10	055-1	WMATA Shepherd Parkway Bus Division	2 DC Village Lane, SW, Washington, DC 20032
11	039-1	Watergate Partners LLC (formerly Greenpenz, 2600 Virginia Ave., LLC)	2500 Virginia Ave., NW, Washington, DC 20037

GSA = General Services Administration  
 MWAA = Metropolitan Washington Airports Authority  
 WMATA = Washington Metropolitan Area Transit Authority

**Section II Attachment**  
**District of Columbia Significant Industrial Users**

**Table 3. Summary of Industrial User Inspection and Monitoring Activities for 2017**

Permit No.	Industrial User	Permit Issuance	Permit Effective	Permit Expiration	Number of POTW Inspections	No. of Sampling Events		
						by POTW	by IU	Required
011-9	Amtrak	06/23/15	07/01/15	06/30/19	1	1	2*	2*
017-10	Bureau of Engraving and Printing	08/28/14	09/01/14	08/31/18	1	1	6*	6*
022-10	Capitol Power Plant	09/25/15	10/01/15	09/30/19	1	1	2*	2*
057-1	District Apartments Realty Holding Company, LLC	12/18/15	12/18/15	12/17/19	1	1	2	2
019-10	GSA Central Heating and Refrigeration Plant	06/10/16	06/12/16	06/11/20	1	1	2*	2*
025-10	MWAA - Dulles International Airport	11/05/15	12/01/15	11/30/19	1	1	4/ 6 (a)	4/ 6 (a)
002-9	Naval Research Laboratory	09/09/16	09/11/16	09/10/20	1	1	10	10
028-10	Naval Support Facility Carderock	04/27/16	04/27/16	03/14/20	1	1	2	4
008-11	WMATA Bladensburg Bus Division	11/15/16	12/02/16	12/01/20	1	1	2	2
053-7	WMATA Brentwood Major Repair and Overhaul Yard	07/08/16	07/22/16	07/21/20	1	1	2	2
055-1	WMATA Shepherd Parkway Bus Division	09/25/15	09/30/15	09/29/19	1	1	2	2
039-1	Watagate Partners LLC (formerly Greenpenz, 2600 Va. Ave., LLC)	11/05/14	11/22/14	11/21/18	1	1	2	2

(\*) Includes daily pH monitoring when discharging.

(a) MWAA Dulles Airport is required to conduct daily monitoring on the glycol discharge. Discharged 6 times during 2017.



**Section II Attachment (Continued)**  
**District of Columbia Significant Industrial Users**

**List of SIUs Covered by a General Control Mechanism**  
Not Applicable

**List of CIUs Assigned Mass-Based Limits in place of Concentration-Based Limits**  
None

**List of CIUs With Waivers for Categorically Regulated Pollutants**  
None

**List of Facilities Not Inspected During 2017**  
None

**List of Facilities Not Sampled by POTW During 2017**  
None

**List of Facilities Submitting Less Than the Required Number of Self-Monitoring Reports and Reason:**  
None

**Note:** All self-monitoring reports received by DC Water by 1/15/18 were counted as received in 2017.

**Section III Attachment  
District of Columbia Significant Industrial Users**

**Table 4. List of SIUs in SNC During 2017:**

<b>Industrial User</b>	<b>Reason for SNC</b>	<b>Evaluation Period</b>	<b>Actions Planned or Taken</b>	<b>Status</b>
Naval Research Laboratory	TRC violation for PCB	January – June 2017	Administrative Order, Additional Monitoring, Fine, Publication	In compliance
Naval Support Facility Carderock	Failure to conduct required permit monitoring	January – June 2017 April – September 2017 July – December 2017	Administrative Order, Additional Monitoring, Fine, Publication	Interim

**List of SIUs in SNC for 2017 that were also in SNC for 2016:**

1. Naval Support Facility Carderock

**List of Users Previously Designated as Non-significant CIUs that have Violated a Pretreatment Standard or Requirement During 2017:**

Not applicable

**Newspaper Listing of SIUs in SNC During 2017:**

DC Water published the newspaper listing of SIUs in SNC for 2017 on February 16, 2018. A copy of the notice is attached.

# CLASSIFIED

washingtonpost.com/classifieds

FRIDAY, FEBRUARY 16, 2018

 <p>the local expert on local jobs</p> <p>washingtonpost.com/jobs</p>	 <p>new and pre-owned cars, trucks and suvs</p> <p>cars.com</p>	 <p>homes for sale, commercial real estate</p> <p>washingtonpost.com/ realestate</p>	 <p>rentals</p> <p>apartments.com</p>
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For Jobs advertisements, go to [washingtonpost.com/recruit](http://washingtonpost.com/recruit) or call 202-334-4100 (toll free 1-800-765-3675)

To place an ad, go to [washingtonpostads.com](http://washingtonpostads.com) or call 202-334-6200  
Non-commercial advertisers can now place ads 24/7 by calling 202-334-6200

Legal Notices - 202  
Auctions, Estate Sa  
202-334-7029  
Biz Ops/Services -

### 102 Happy Days

**Sally D RN,**  
Our 49th year. Love you.  
Ken

### 205 Antiques

**BUY RECORD COLLECTIONS—100**  
drive to you, pay CASH, and haul  
them away. Call 571-830-5871

### 208 Appliances

Kirby Vacuum Cleaner/Shampooer—\$195 Like New-Extra Bags & Belts-Cost \$1800 571-606-0319

### 225 Collectibles

**AURORA SLOT CARS Wanted—\$100**  
& up, cars/sets. Atlas, AFX, Tyco, Cox, Revell, K&B. 703-960-3594

**Comic Book & Sports Card Show—Feb. 18 Sunday 10am-3pm**  
Antebelle Va. Fire House Expo Hall  
7128 Columbia Pike 22003 Adm.  
\$3.12 & under Free \$1 off with ad  
[info.shoppromotions.com](http://info.shoppromotions.com)

**BUY RECORD COLLECTIONS—100**  
drive to you, pay CASH, and haul  
them away. Call 571-830-5871

**SMALL COLLECTOR PAYS CASH FOR COINS/COLLECTIONS.**  
Call Al. 301-807-3266.  
Will come to you!

### 245 Electronics

**Classic Marantz Receiver Model 2224B** Exc cond, complete with wood case, orig box and manual. \$325 Call 301-219-3779

**PIONEER Reel to Reel Mid RT-707** Exc cond, auto reverse. \$350. Call 301-219-3779

**Therapy Lamp—32 NatureBright Light and Ion Therapy Lamp \$32.**  
Alexandria, VA. 571-431-1501

### 255 Heavy Equipment, Machinery & Tools

**AUCTION—ABSOLUTE AUCTION! BAKERY DELI, MEAT ROOM & SUPPLIES SUPERMARKET EQUIPMENT.** TUES, FEB. 20th @ 10:30 THE FORMER FOOD LIGN - 8313 SUDLEY RD. MANASSAS, VA. TERMS: Cash, Cashiers Check or Check w/ Bank Letter. 10% Buyers Premium, Online and Credit Card Purchases 13% Buyers Premium. Sale Manager: SAN-

### 820 Official Notices

#### DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

#### ANNUAL LIST OF INDUSTRIAL USERS IN SIGNIFICANT NONCOMPLIANCE FOR THE CALENDAR YEAR 2017

Notice is hereby given that pursuant to Section 14 of the District of Columbia's Wastewater System Regulation Amendment Act of 1985, as amended (D.C. Law 6-95; D.C. Official Code 88-105.13), and the requirements of the U.S. Environmental Protection Agency the following facilities were found to be in Significant Noncompliance with the District of Columbia Water and Sewer Authority's Industrial Wastewater Pretreatment Program requirements in 2017:

**Naval Research Laboratory** located at 4555 Overlook Ave., SW, Washington, DC, was issued Wastewater Discharge Permit No. 002-9 on September 9 2016 and violated the local limit for Polychlorinated Biphenyls (PCBs) on May 17, 2017. This violation constitutes Significant Noncompliance (Technical Review Criteria violation). Enforcement action included an Administrative Order with a source investigation and additional monitoring for PCBs.

**Naval Support Facility Carderock** located at 9500 MacArthur Blvd, West Bethesda, MD, was issued Wastewater Discharge Permit No. 028-10 on April 27 2016 ("Permit") and failed to conduct the required Permit monitoring for mercury during the January to March 2017 and July to September 2017 monitoring periods. This violation constitutes Significant Noncompliance. Enforcement action included an Administrative Order with additional monitoring for mercury.

Inquiries may be directed to:

**DC Water and Sewer Authority  
Pretreatment Program Manager  
Department of Wastewater Treatment  
5000 Overlook Avenue, SW  
Washington, DC 20032  
202-787-4177**

### 610 Dogs for Sale

**Boarder Collie—8 weeks old.**  
301-898-0187  
Ready to go March 6

**Cane Corso—\$800/080.** Females, since old Vet. Health Check, Tails Docked, Dewormed, Up to date shots Larnell Johnson, 202-207-7410

**DOBERMAN PUPPIES - AKC,** big boned, family raised, great temperaments, parents on premises. 8 weeks old, some have Ears done. All colors available. \$500/\$900. 240-674-2844 or 240-674-3994

**English Cream Retrievers—5 AKC reg.** 9-week old females. Beautiful coloring and great bloodlines. Great tem-

### 610 Dogs for Sale

**Miniature Dachshund—\$1650** Male & Female Black 9 weeks old, 240-454-4702

**SHELTY PUPPIES - AKC,** tri and sable females. Ready to go now. Raised in home. Chambersburg, PA. Call 717-816-5161

**Shi-A-Pop, T-Cup Yorkies—Adorable** puppies. 304-904-6289. Cash, CC, Easy Finance. [www.wppuppy.com](http://www.wppuppy.com), 59 East Rd, Martinsburg WV, exit 10E

### 825 Bids & Proposals

#### WAGMAN

General Construction | Heavy Civil | Geotechnical

**Wagman Heavy Civil, Inc. is seeking Disadvantaged Business Enterprises (DBE), as certified by Virginia Unified Certification Program (VUCP), in accordance with 49 CFR Part 26 to join our pursuit on the following project:**

Project:	Description:	Owner:	Location:	Bid Date:
SWM Facilities for Phase 2 of the Dulles Corridor Metrorail Project	Design Build Project to install 17 SWM Ponds and Outfall	MWAA	Dulles, VA	Feb. 23, 2018

If interested in subcontracting, please contact:

Jason Hershey, DBIA, Senior Estimator

Phone: 717.767.8296 | Fax: 717.767.5457 | [estimating@wagman.com](mailto:estimating@wagman.com)

### 825 Bids & Proposals

#### Purchasing Cooperative of America will receive proposals

until 11:00am CT on Tuesday, March 20, 2018 in the Bonfire application on the PCA Website for Region 3 ESC. 1905 Leary Ln, Victoria, TX 77901, for the following # of RFP national contracts: (1) RFP 3-186-18 Furniture, Fixtures, Equipment and Related Items; (2) RFP 3-187-18 Flooring Products, Services, Installation, Maintenance and Related Items (JOC). RFP 3-188-18 Bulk Fuel, Additives, Grease and Related Items. NOTICE: PCA is holding a pre-proposal Meeting on February 21, 2018 at 11:15 North Freeway (I-45N), 5th Floor, Houston, TX @ 10 a.m. - Noon. RSVP Required. Call 844-722-6374 x700 or 713-254-1858. Go to [www.pcamerica.org/solicitations](http://www.pcamerica.org/solicitations) for more information.

### 830 Special Notices

**Lynnwood B Andrews PhD** is closing her practice. To obtain your records you must contact Dr. Andrews at (802) 649-7073, before retrieving them at 6270 Montrose Rd Rockville MD between 1-4PM on 3/21/18. All medical records will be destroyed after 3/21/18.

### 835 Public Sale Notices

**IN ORDER TO ENFORCE ITS LIEN FOR UNPAID RENT AMERICAN SELF STORAGE WILL SELL AT A**

### Notice of Publication Housing Opportunities Commission of Montgomery County FY 2019 PHA Plan

The Housing Opportunities Commission of Montgomery County (HOC) has developed proposed revisions and new additions for its Fiscal Year (FY) 2019 Public Housing Agency (PHA) Plan. In compliance with the Quality Housing and Work Responsibility Act of 1998, these revisions and additions will replace the expiring FY 2018 Annual PHA Plan, and will update HOC's progress in meeting the goals and objectives described in HOC's FY 2015-2019 Five-Year PHA Plan. The revised and updated PHA Plan will serve as HOC's FY 2019 Annual PHA Plan.

These proposed changes to HOC's PHA Plan are available for review at HOC's main office at 10400 Detrick Avenue in Kensington, HOC's Up-County Office at 231 East Deer Park Drive in Gaithersburg, and at HOC's two Customer Service Centers: 8241 Georgia Avenue, 3rd Floor, in Silver Spring, and 101 Lakelands Blvd., #200, in Gaithersburg. The document revisions are also available on HOC's Web site at [www.hocmc.org](http://www.hocmc.org). HOC's hours are 8:30 AM to 5:00 PM, Monday through Friday.

HOC will hold a public hearing on these documents at 3:30 p.m. on April 4, 2018 at its Detrick Avenue location.

All written public comments may be directed by mail to Stacy Sparr, Executive Director, at 10400 Detrick Avenue, Kensington, Maryland 20895 or e-mailed to [PHAPlanComments@hocmc.org](mailto:PHAPlanComments@hocmc.org)

The public comment period for these documents ends on April 4, 2018. To be considered, all comments must be received no later than April 3, 2017. There will be an opportunity to provide oral comments on the day of the public hearing.

### 876 Loudoun County

**TRUSTEE'S SALE OF 23266 WATSON ROAD, LEESBURG, VA 20175**

In execution of a Deed of Trust in the original principal amount of \$76,000.00, with an annual interest rate of 4.0000% dated July 31, 2007, recorded among the land records of the Circuit Court for the COUNTY OF LOUDOUN as

### 878 Stafford County

**TRUSTEE'S SALE OF 26 LINDSEY LANE, STAFFORD, VA 22556.**

In execution of a certain Deed of Trust dated December 8, 2006, in the original principal amount of \$437,000.00 recorded in the Clerk's Office, Circuit Court for Stafford County, Virginia as Instrument No. LR070003239. The undersigned, Substitute Trustee

CERTIFICATE OF PUBLICATION

The Washington Post Company hereby certifies that it is the publisher of The Washington Post; that The Washington Post is a newspaper of general circulation, published daily in the City of Washington, District of Columbia; that The Washington Post has been so published continuously for more than one year prior to the date of first publication of the notice mentioned below; that the undersigned person is the duly authorized agent of The Washington Post Company to execute this certificate on its behalf; and that a notice of which the annexed is a true copy was printed and published in said newspaper on the following date(s) at a cost of \$994.60 and was circulated in the Washington metropolitan area.

Published 1 time(s). Date(s):16 of February 2018

Account 1010020439

THE WASHINGTON POST

By

Nicole McKinney  
BILLING MANAGER

HWNT

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY ANNUAL LIST OF INDUSTRIAL USERS IN SIGNIFICANT NONCOMPLIANCE FOR THE CALENDAR YEAR 2017 Notice is hereby given that pursuant to Section 14 of the

District of Columbia's Wastewater System Regulation Amendment Act of 1985, as amended (D.C. Law 6-

95; D.C. Official Code §8-105.13), and the requirements of the U.S. Environmental Protection Agency,

the following facilities were found to be in Significant Noncompliance with the District of Columbia

Water and Sewer Authority's Industrial Wastewater Pretreatment Program requirements in 2017: Naval

Research Laboratory located at 4555 Overlook Ave., SW, Washington, DC, was issued Wastewater Discharge Permit No. 002-9 on September 9 2016 and violated the local limit for Polychlorinated Biphenyls (PCBs) on May 17, 2017. This violation constitutes Significant Noncompliance (Technical

Review Criteria violation). Enforcement action included an Administrative Order with a source investigation and additional monitoring for PCBs. Naval Support Facility Carderock located at

9500 MacArthur Blvd, West Bethesda, MD, was issued Wastewater Discharge Permit No. 028-10 on April

27 2016 (#Permit") and failed to conduct the required Permit monitoring for mercury during the January to March 2017 and July to September 2017 monitoring periods. This violation constitutes Significant Noncompliance. Enforcement action included an Administrative Order with additional monitoring for mercury. Inquiries may be directed to: DC Water and Sewer Authority Pretreatment

Program Manager Department of Wastewater Treatment 5000 Overlook Avenue, SW Washington, DC 20032 202-787-4177

→

**Section IV Attachment  
District of Columbia Significant Industrial Users**

**Table 5. List of SIUs Receiving Written Notices of Violation in 2017**

<b>Significant Industrial User</b>	<b>Number of Written Notices Issued</b>
Capitol Power Plant	2
Naval Support Facility Carderock	1

**Table 6. List of SIUs Receiving Administrative Orders/Enforceable Compliance Schedules in 2017 and First Quarter 2018 (if violation occurred in 2017):**

<b>#</b>	<b>Significant Industrial User</b>	<b>No. Issued</b>	<b>Date Issued</b>	<b>Type Issued</b>	<b>Reason</b>	<b>FCD</b>	<b>Status</b>	<b>By FCD ?</b>
1	Naval Research Laboratory	1	8/15/17	Order	SNC	03/31/18	Compliance	Yes
2	Naval Support Facility Carderock	1	11/3/17	Order	SNC	07/16/18	Interim	Yes

**List of SIUs on Compliance Schedules in writing but not considered Formal:**

None

**List of SIUs Sued in 2017:**

None

**Table 7. List of SIUs Assessed Penalties in 2017:**

#	Significant Industrial User	Amount Assessed	Amount Collected	Reason	Assessed in Previous Years?
1	Naval Research Laboratory	\$600	\$0 (Exempt due to sovereign immunity)	TRC PCB violation resulting in SNC	Not applicable
2	Naval Support Facility Carderock	\$900	\$0 (Exempt due to sovereign immunity)	Failure to conduct required permit monitoring	Not applicable

**Description of all Actions Included as Administrative Orders:**

1. **Naval Research Laboratory** - The DC Water and Sewer Authority issued an Administrative Order (Notice of Infraction and Proposed Order) to Naval Research Laboratory on August 15, 2017 to address a Technical Review Criteria (TRC) violation of the PCB discharge limitation on May 17, 2017, resulting in Significant Noncompliance. The order required follow-up monitoring, PCB inventory and source evaluation, and payment of a fine. The fine was then waived due to sovereign immunity of federal facilities per DC Water precedent. Follow-up monitoring and the PCB inventory and source evaluation are being conducted. The final compliance date of March 31, 2018, is expected to be met.
2. **Naval Support Facility Carderock** - The DC Water and Sewer Authority issued an Administrative Order (Notice of Infraction and Proposed Order) to NSF Carderock on November 3, 2017 to address failure to conduct required quarterly monitoring for mercury during the following quarters: July to September 2016, January to March 2017, and July to September 2017, resulting in Significant Noncompliance for calendar years 2016 and 2017. The order required follow-up monitoring and payment of a fine. The fine was then waived due to sovereign immunity of federal facilities per DC Water precedent. Follow-up monitoring will be conducted and the final compliance date of July 16, 2018, is expected to be met.

**Description of "Other Actions":**

None

**List of SIUs with SNC Violations Not Subject to Enforcement:**

None

## **Attachment 2**

**Parts A and B with attachments for Washington  
Suburban Sanitary Commission (WSSC) SIUs  
discharging to Blue Plains**

**PART A  
PRETREATMENT PERFORMANCE SUMMARY\***

**I. General Information**

Control Authority Name		Washington Suburban Sanitary Commission			
Address		14501 Sweitzer Lane			
City	Laurel	State	Maryland	Zip+4	20707-5901
Contact Person	I-Hsin McConnell		Telephone No.	301-206-8597	
Contact Title	Section Manger		E-mail Address	I-Hsin.McConnell@wsscwater.com	
NPDES No.	DC 0021199		Reporting Period	01-01-17 to 12-31-17	
Issuance Date	08/31/10		Expiration Date*	09/30/15	
Total CIUs	11 (as of 12/31/2017)		Total MTCIUs	NA	
Total SNIUs	20		Total NSCIUs	NA	

CIUs - Categorical Industrial Users

MTCIUs - Middle Tier Categorical Industrial Users

SNIUs - Significant Noncategorical Industrial Users

NSCIUs - Nonsignificant Categorical Industrial Users

**II. Compliance Monitoring Program**

1. No. of SIUs with current Control Documents.....	<u>31</u>
2. No. of SIU Facilities Inspected.....	<u>31</u>
3. No. of SIU Facilities Sampled.....	<u>30**</u>
4. No. of SIUs Submitting Self-Monitoring Reports.....	<u>31</u>


**III. Significant Industrial User Compliance**

1. No. of SIUs Violating a Compliance Schedule / No. on a Schedule.....	<u>1/1</u>
2. No. of SIUs in SNC for the July to December Period.....	<u>2</u>
3. No. of SIUs in SNC At Any Time During the Calendar Year.....	<u>3</u>
4. No. of SIUs in SNC That Were Also in SNC During the Previous Calendar Year	<u>0</u>
5. No. of NSCIUs that violated any standards or requirements	<u>NA</u>

**IV. Enforcement Actions**

1. Notices/Letters of Violation Issued to SIUs.....	<u>25</u>
2. Enforceable Compliance Schedules Issued to SIUs.....	<u>23</u>
3. Civil/Criminal Suits Filed.....	<u>0</u>
4. No. of SIUs from which Penalties have been Collected.....	<u>1</u>
5. Other Actions (sewer bans, etc.).....	<u>0</u>

I certify that the information contained in this report and attachments is complete and accurate to the best of my knowledge (see Part B.V of the instructions).

I-Hsin McConnell  
 \_\_\_\_\_  
 Name of Authorized Representative (Print)  
  
 \_\_\_\_\_  
 Signature of Authorized Representative

Industrial Discharge Control Section Mgr.  
 \_\_\_\_\_  
 Title (Print)  
 3/7/2018  
 \_\_\_\_\_  
 Date

\*New NPDES permit has not been issued as of 12/31/17.

\*\*See attachment E



**PART B  
PRETREATMENT DEVELOPMENTS**

**I. Summary of Trucked Wastes**

There are two waste hauler disposal sites located within the Washington Suburban Sanitary Commission (WSSC or Commission) that discharge to Blue Plains wastewater treatment plant (WWTP): Muddy Branch Disposal Site located in Montgomery County, MD and Tanglewood Disposal Site located in Prince George’s County, MD. Of these two sites, only the Muddy Branch disposal site has been designated to accept fats, oil and grease (FOG) wastewaters. The Commission continues to use the surveillance cameras at each site and the cameras are in operation twenty-four hours per day. WSSC Investigators are able to connect to the cameras while at their desk to monitor the sites and download surveillance images. WSSC will issue enforcement actions as outlined in WSSC’s enforcement response plan to violators of WSSC’s waste hauler permit conditions. In addition, WSSC will notify the waste hauler community by email, when there are urgent matters such as the shutdown of a disposal site.

WSSC continues to implement a manifest program (first implemented in 2013) to quantify the amount of septage and grease that is being discharged at its sites. In addition, WSSC prohibits the discharge of septage and grease from counties located outside of the Blue Plains service area. The manifest program assists WSSC in determining whether the hauled waste was generated within the Blue Plains service area as well as determining the volumes discharged.

Table 1 (below) outlines the summary of the number septage and FOG events and total volumes discharged in 2017.

**Table 1: 2017 Summary of Hauled Waste Discharged to DC Water**

	Septage Waste		FOG Waste	
	<i>Number of Events</i>	<i>Volume (gallons/year)</i>	<i>Number of Events</i>	<i>Volume (gallons/year)</i>
<b>Muddy Branch Disposal Site</b>	3077	4,205,677	7545	5,831,366
<b>Tanglewood Disposal Site</b>	28	37,550	Not applicable	Not applicable

On February 19, 2016, DC Water amended the IMA requirement for WSSC to conduct random sample collection of hauled waste at the Tanglewood disposal site. The amendment revised the requirement to conduct two random sample events to one random sample per year of a hauler at the disposal point. WSSC has made every effort to conduct a random sample of hauled waste at the site and also tried to schedule a sampling event with haulers at the site in 2017. However, WSSC was not able to collect any hauled waste samples at the site because of the very limited disposal events at this location. WSSC has also attempted to schedule to meet a hauler at the disposal site. However, because of the infrequent nature for disposals at this site, none of the permitted haulers responded to our request. Below are all of the dates that WSSC attempted to conduct hauled waste samples at the site.

1 <sup>st</sup> Quarter	2 <sup>nd</sup> Quarter	3 <sup>rd</sup> Quarter	4 <sup>th</sup> Quarter
Dates Attempted	Dates Attempted	Dates Attempted	Dates Attempted
1/5/17	4/3/17	7/13/17	10/2/17
1/26/17	4/24/17	7/27/17	10/12/17
2/7/17	5/8/17	8/8/17	10/23/17
2/15/17	5/24/17	8/18/17	11/2/17
2/22/17	6/14/17	9/1/17	11/16/17
3/7/17	6/21/17	9/7/17	11/30/17
	6/26/17	9/21/17	12/13/17
		9/28/17	12/14/17
			12/20/17

Furthermore, the number of hauled waste disposal events at the Tanglewood Disposal Site continue to decrease. In 2015 and 2016, there were 211 and 133 disposal events, respectively. However, in 2017, the number of disposal events further decreased to 28. In addition to the decrease in the number of disposal events, the total volume of hauled waste discharged at the Tanglewood disposal site also continue to decrease. In 2017, a total of 37,550 gallons was discharged. This is a 79 percent decrease from the total volume discharged in 2016 (174,205 gallons). WSSC will continue to attempt to collect a sample from a waste hauler at the Tanglewood Disposal Site in 2018.

WSSC collected three random hauled waste samples at Muddy Branch during 2017: March 29, June 22, and November 13.

WSSC continues with its plan for new hauled waste disposal sites. WSSC has identified two disposal sites in Prince George's County (Anacostia and Piscataway) and one Montgomery County (Rock Creek). The bid ready designs for the Anacostia and Rock Creek sites are complete and the 30 percent design of the Piscataway location is currently under review. Once the bid ready designs for the Piscataway location is complete, WSSC will advertise all three site at the same time. WSSC projects that the Notice to Proceed will be issued by April 2019.

WSSC is also evaluating alternative methods for billing for hauled waste. Currently, waste haulers are billed an annual permit fee depending on the size of their vehicle. Each permitted hauler is then allowed to discharge unlimitedly for the duration of the permit. WSSC is considering implementing volumetric fee which would include an automatic debiting system for the future disposal sites.

Oaks Sanitary Landfill, a significant industrial user (SIU), continues to truck its leachate for disposal to a designated manhole located at the Montgomery County's Shady Grove Processing Facility and Transfer Station located in Derwood, MD. This location discharges to Blue Plains WWTP. WSSC regulates the landfill by a Discharge Authorization Permit, which contains requirements for monitoring, reporting, and pretreating their waste. The amount of wastewater received on a monthly basis varies based on seasonal changes; however, the average amount is approximately 28,009 gallons per day (maximum daily volume discharged was 49,416 gallons and the minimum daily volume discharged was 1,666 gallons), not to exceed 80,000 gallons per day of hauled leachate or discharge at a rate of 200 gallons per minute.

Ritchie Rubble Landfill (Ritchie Rubble), an SIU, has been hauling its leachate to either the Muddy Branch or the Tanglewood disposal site since June 2016. WSSC obtained DC Water's

approval to revise the facility's permit to authorize discharge at either the Muddy Branch or the Tanglewood disposal site in April 2016. WSSC issued the revised permit on June 2, 2016. Like Oaks Sanitary Landfill, Ritchie Rubble's discharge varies seasonally, but the average monthly discharge is 723,906 gallons (with a maximum daily and monthly discharge of 50,546 gallons and 1,112,377 gallons, respectively).

One nonsignificant industrial user, Dickerson Generating Station (NRG Energy, Inc.) continues to truck its sewerage sludge to the Muddy Branch disposal site. The Dickerson Generating Station operates a small wastewater treatment plant to treat the domestic wastewaters generated on site. DC Water has authorized Dickerson Generating Station to discharge the sewerage sludges from its wastewater treatment plant. Dickerson Generating Station is required to analyze and submit quarterly sludge results. In 2017, Dickerson Generating Station hauled a total of 2,500 gallons (January 4, 2017) of sewerage sludge to the Muddy Branch disposal site.

## **II. Pretreatment Program Changes**

In 2017, WSSC created a dental amalgam survey that also serves as the EPA required one-time certification statement for dental facilities subject to the new dental amalgam rule. WSSC compiled a list of possible dental facilities located within the WSSC service area by obtaining dental licensing information from the Maryland Board of Dental Examiners. To date, WSSC has sent out 1,701 surveys and have received back 505 completed surveys (30 percent return rate). Below is a summary of the survey results to date. Please note that the survey results are for the entire WSSC service area and does not break out those facilities that discharge to the Blue Plains WWTP. WSSC is currently working to identifying the applicable dental facilities that discharge to Blue Plains WWTP.

- 176 of the facilities that submitted completed surveys are not subject to the dental amalgam rule.
- 208 of the facilities that submitted completed surveys are subject to the rule and are already compliant with the requirements.
- 121 of the facilities that submitted completed surveys are subject to the rule and are currently not compliant with the requirements.

In addition to the survey, WSSC staff attended a monthly meeting of the Southern Maryland Dental Society Association, at which WSSC staff provided information regarding the new dental amalgam rule to ensure that all dentists applicable to this rule understand the new requirements. Furthermore, WSSC also provided copies of our survey to the attendees. Moving forward, WSSC will continue to reach out to the local dental offices to ensure compliance with the rule.

Currently, WSSC has 7 Industrial Discharge Investigators, 2 Industrial Discharge Supervisors, and one Industrial Discharge Section Manager. In May 2017, WSSC hired two new Industrial Investigators, David Aries and Alex DeWire. One of these investigator positions is a new position added to WSSC's Industrial Discharge Section. In October 2017, WSSC hired a new Industrial Investigator, Joseph Bieberich who replaced an Investigator that transferred to another WSSC Division.

WSSC has completed local limits re-evaluation and the Maryland Department of the Environment has approved the proposed limits. WSSC plans to hold the necessary public commenting period in 2018 and hopes to adopt the proposed limits into our Plumbing and Fuel Gas Codes by July 2018.

### **III. Miscellaneous Developments**

#### **SIU Information**

On May 17, 2016, FlexEI, LLC (FlexEI) changed from a discharging CIU to a zero-discharging CIU. Ultimately this facility closed in June 2017.

On October 3, 2016, WSSC permitted Innoscience, Inc. as a new CIU subject to the semiconducting manufacturing federal limits. This facility has ceased discharging during 2017 and is in the process of removing all of its equipment. WSSC is searching for Owner/Authorized Representative to contact regarding permit inactivation. The Owner/Authorized Representative has been difficult to find since they are typically out of the country. WSSC will continue to conduct spot inspections of the facility to ensure that there are no processing at this location.

On October 31, 2017, Bethesda Art Metal Works, Inc.'s classification changed from a discharging CIU subject to 40 CFR Part 413 to a zero-discharging CIU. At that time, WSSC converted the facility's permit to a Zero-Discharge Permit.

#### **Other Miscellaneous Information**

On March 30<sup>th</sup> and April 4<sup>th</sup>, 2017, WSSC's IDC staff conducted SIU Training courses for our permitted users. The training session provided an overview of WSSC's pretreatment program requirements and how that translated to each user's permit requirements. Topics discussed during the training session included:

- **Basic Program Requirements:** Reviewed the contents within a permit, WSSC's Industrial and Special Waste Code, periodic compliance reporting requirements, and other reporting requirements.
- **Enforcement:** Reviewed WSSC's Enforcement Response Plan and how WSSC determine which type of enforcement action to take.
- **Self-monitoring requirements:** Reviewed to how ensure that self-monitoring is conducted correctly.
- **Significant noncompliance:** Reviewed how significant noncompliance is determined and how to avoid significant noncompliance.

On June 28, 2017, WSSC awarded Human Genome Sciences, Inc. (LSM) Rockville, Maryland with the 9<sup>th</sup> Annual Pretreatment Recognition award, their second time. [Note: Human Genome Sciences, Inc. (LSM) discharges to DC Water.] WSSC chose Human Genome Sciences, Inc. (LSM) as recipient of the 2016 award based on the facility's consistent compliance, pollutant & solid waste reductions, recycling medical waste into plastic lumber, and participating in annual cleanups of the Potomac Watershed. In addition, the IDC Section publishes an annual Pretreatment Bulletin to keep our SIU community informed of important topics. This year's topics included information regarding the emerging pollutants of concern, Significant Noncompliance, testing for COD & BOD, interpreting self-monitoring results, and the National Pretreatment Program.

The IDC staff is Hazwoper certified and are required to take 12 additional safety classes related to the hazards of their job.

The WSSC follows the Office of National Drug Control Policy's guidelines for disposal of prescription drugs.

### **LIST OF ATTACHMENTS For PART A**

- Attachment A List of Categorical Industrial Users and Applicable Categories
- Attachment B List of Non-Categorical Significant Industrial Users
- Attachment C List of Significant Industrial User Control Documents
- Attachment D Compliance Monitoring, Inspection and Self-Monitoring Summary
- Attachment E List of Facilities not Inspected or Sampled and Submitting less than required self-monitoring events
- Attachment F List of Significant Industrial Users in SNC
- Attachment G List of Significant Industrial Users on Formal Compliance Schedules
- Attachment H Copy of Newspaper Listing of Significant Industrial Users in SNC During the Calendar Year
- Attachment I List of Significant Industrial Users Issued Notices of Violation
- Attachment J List of Significant Industrial Users Issued Administrative Orders and Industrial Users That Have Been Sued for Pretreatment Violations
- Attachment K List of Industrial Users Assessed Penalty
- Attachment L Description of all Actions Included in Administrative Orders and List of Significant Industrial Users That had SNC Violations but Were not Subject to Enforcement

**BLUE PLAINS DISCHARGERS  
CATEGORICAL INDUSTRIAL USERS  
December 2017**

<u>INDUSTRY NAME &amp; ADDRESS</u>	<u>CATEGORY</u>	<u>STANDARDS</u>
Adelphi Laboratory Center 2800 Powder Mill Road Adelphi, MD 20783	Metal Finishing Battery Manufacturing Semiconductor Manufacturing	PSNS 433.17; 40 CFR Part 461 (no discharge); PSNS 469.18
ATK Space Systems, Inc. 11313 Frederick Avenue Beltsville, MD 20705	Metal Finishing	PSNS 433.17; {As, Cd, CN, Hg, Mo, Ni, O&G <sup>1</sup> , PCB} <sup>2</sup> ; [Cu, Pb, pH] <sup>3</sup>
Bethesda Art Metal Works, Inc. <sup>4</sup> 4955 Bethesda Avenue Bethesda, MD 20814	Electroplating	PSES 413 <10,000; {As, Cd, CN, Hg, Mo, Ni, O&G <sup>1</sup> , PCB, Zn} <sup>2</sup> ; [Ag, Cr, Cu, Pb, pH, TTO] <sup>3</sup>
Eaton Corporation 11642 Old Baltimore Pike Beltsville, MD 20705	Metal Finishing	PSNS 433.17; {As, Cd, CN, Hg, Mo, Ni, O&G <sup>1</sup> , PCB} <sup>2</sup> ; [Cu, Pb, pH] <sup>3</sup>
Emergent BioSolutions <sup>5</sup> 9920 Medical Center Drive Rockville, MD 20850	Pharmaceutical Manufacturing	PSNS 439.47; {As, Cd, CN, Hg, Mo, Ni, O&G <sup>1</sup> , PCB, Zn} <sup>2</sup> ; [Methylene Chloride, Ag, Cr, Cu, Pb, TTO, pH] <sup>3</sup>
Human Genome Sciences, Inc. (Large Scale Manufacturing) 9911 Belward Campus Drive Rockville, MD 20850	Pharmaceutical Manufacturing	PSNS 439.17; {As, Cd, CN, Hg, Mo, Ni, O&G <sup>1</sup> , PCB, Zn} <sup>2</sup> ; [Ag, Cr, Cu, Pb, pH, TTO] <sup>3</sup>
Human Genome Sciences, Inc. (Small Scale Manufacturing) 9910 Belward Campus Drive Rockville, MD 20850	Pharmaceutical Manufacturing	PSNS 439.17; {As, Cd, CN, Hg, Mo, Ni, O&G <sup>1</sup> , PCB, Zn} <sup>2</sup> ; [Ag, Cr, Cu, Pb, pH, TTO] <sup>3</sup>
InnoScience, Inc. <sup>6</sup> 15892 Gaither Drive, Suite A Gaithersburg, MD 20877	Semiconductor Manufacturing	PSNS 469.18; {As, Cd, CN, Hg, Mo, Ni, O&G <sup>1</sup> , PCB, Zn} <sup>2</sup> ; [Ag, Cr, Cu, Pb, pH, TTO] <sup>3</sup>
Maryland Metal Plating & Polishing 4110 Howard Avenue Kensington, MD 20895	Metal Finishing	PSNS 433.17; {As, Cd, CN, Hg, Mo, Ni, O&G <sup>1</sup> , PCB} <sup>2</sup> ; [Cu, Pb, pH] <sup>3</sup>

**BLUE PLAINS DISCHARGERS**  
**CATEGORICAL INDUSTRIAL USERS**  
**December 2017**

<u>INDUSTRY NAME &amp; ADDRESS</u>	<u>CATEGORY</u>	<u>STANDARDS</u>
Mid-Atlantic Finishing, Inc. 4656 Addison Road Capitol Heights, MD 20743	Metal Finishing	PSNS 433.17; {As, Cd, CN, Hg, Mo, Ni, O&G <sup>1</sup> , PCB} <sup>2</sup> ; [Cu, Pb, pH] <sup>3</sup>
United Therapeutics Corp 1040 Spring Street Silver Spring, MD 20910	Pharmaceutical Manufacturing	PSNS 439.47 PSNS 439.27 <sup>7</sup>
University of Maryland / Department of Defense Physical Sciences Laboratory 8050 Greenmeade Drive College Park, MD 20740	Electrical & Electronic Components – Semiconductor	PSNS 469.18; {As, Cd, CN, Hg, Mo, Ni, O&G <sup>1</sup> , PCB, Zn} <sup>2</sup> ; [Ag, Cr, Cu, Pb, pH] <sup>3</sup>

<sup>1</sup> Oil & Grease (Nonpolar, Petroleum)

<sup>2</sup> Blue Plains' Local Limits

<sup>3</sup> WSSC's Local Limits

<sup>4</sup> Permit modified to Zero Discharger 10/31/2017. Therefore, this industry is not counted in the total number of CIUs on the Part A worksheet.

<sup>5</sup> Formerly Sanofi Pasteur Biologics Co., permit modified for name change on 10/6/2017

<sup>6</sup> Industry ceased discharging during 2017 (permit inactivation in process)

<sup>7</sup> Three (3) new Industrial Waste Monitoring Points (IWMP) have been created to evaluate categorical effluent limitations for the Phase 1 Large Molecule (Biological) Operations

**BLUE PLAINS DISCHARGERS**  
**CATEGORICAL DISCHARGE LIMITATIONS**

**40 CFR 433.17 PSNS**

<u>POLLUTANT</u>	<u>DAILY MAXIMUM mg/l</u>	<u>MONTHLY AVERAGE mg/l</u>
Cadmium	0.11 (0.07)*	0.07
Chromium	2.77	1.71
Copper	3.38 (2.0)**	2.07
Lead	0.69 (0.4)**	0.43
Nickel	3.98 (2.2)*	2.38
Silver	0.43	0.24
Zinc	2.61	1.48
Cyanide, T	1.20 (0.56)*	0.65
TTO	2.13	(N/A)

**40 CFR 413 - Limitations for Facilities Discharging less than 10,000 gpd of process wastewater**

<u>POLLUTANT</u>	<u>DAILY MAXIMUM mg/l</u>	<u>4 Day AVERAGE mg/l</u>
Cyanide, A	5.0 (0.56)*	2.7
Lead	0.6 (0.4)**	0.4
Cadmium	1.2 (0.07)*	0.7
TTO	4.57 (2.13)**	(N/A)

**40 CFR 469.18 PSNS**

<u>POLLUTANT</u>	<u>DAILY MAXIMUM mg/l</u>	<u>30-CONSEC. DAY AVG. mg/l</u>
TTO	1.37	(N/A)



**BLUE PLAINS DISCHARGERS  
CATEGORICAL DISCHARGE LIMITATIONS (Continued)**

**40 CFR 439.17 PSNS**

<u>POLLUTANT</u>	<u>DAILY MAXIMUM mg/l</u>	<u>MONTHLY AVERAGE mg/l</u>
Cyanide	33.5 (0.56)*	9.4
Acetone	20.7	8.2
4-Methyl-2-pentanone (MIBK)	20.7	8.2
Isobutyraldehyde	20.7	8.2
n-Amyl acetate	20.7	8.2
n-Butyl acetate	20.7	8.2
Ethyl acetate	20.7	8.2
Isopropyl acetate	20.7	8.2
o-Dichlorobenzene	20.7	8.2
Tetrahydrofuran	9.2	3.4
Benzene†	3	0.7
Chlorobenzene†	3	0.7
Toluene†	0.3	0.1
Xylenes	3	0.7
n-Hexane	3	0.7
n-Heptane	3	0.7
Methylene chloride†	3	0.7
Chloroform†	0.1	0.03
1,2-Dichloroethane†	20.7	8.2
Diethyl amine	255	100
Triethylamine	255	100
Ammonia, nitrogen	84.1	29.4
Methyl formate	20.7	8.2
Isopropyl ether	20.7	8.2

**40 CFR 439.27 PSNS and 439.47 PSNS**

<u>POLLUTANT</u>	<u>DAILY MAXIMUM mg/l</u>	<u>MONTHLY AVERAGE mg/l</u>
Acetone	20.7	8.2
n-Amyl Acetate	20.7	8.2
Ethyl acetate	20.7	8.2
Isopropyl acetate	20.7	8.2
Methylene chloride †	3.0	0.7

\* More stringent Blue Plains local limits.

\*\* More stringent WSSC local limit.

† The summation of the values for these compounds shall not exceed 2.13 mg/L.

**BLUE PLAINS DISCHARGERS**

**NONCATEGORICAL SIGNIFICANT INDUSTRIAL USERS  
December 2017**

<u>INDUSTRY NAME &amp; ADDRESS</u>	<u>CATEGORY</u>	<u>STANDARDS</u>
Adelphi Laboratory Center 2800 Powder Mill Road Adelphi, MD 20783	Federal Facility	{As, Cd, Hg, Mo, Ni , Zn, CN, O&G <sup>1</sup> , PCB} <sup>2</sup> ; [Ag, Cr, Cu, Pb, pH, TTO] <sup>3</sup>
Coca-Cola Bottling Company Consolidated, Inc. 1710 Elton Road Silver Spring, MD 20903	Bottling Company	{As, Cd, Hg, Mo, Ni, Zn, CN, O&G <sup>1</sup> , PCB} <sup>2</sup> ; [Ag, Cr, Cu, Pb, pH, TTO] <sup>3</sup>
District Photo, Inc. 10619 Baltimore Avenue Beltsville, MD 20705	Photoprocessor	{As, Cd, Hg, Mo, Ni, Zn, CN, O&G <sup>1</sup> , PCB} <sup>2</sup> ; [Ag, Cr, Cu, Pb, pH, TTO] <sup>3</sup>
Fort Detrick-Forest Glen Annex 9100 Brookville Road Silver Spring, MD 20910	Federal Facility	{As, Cd, Hg, Mo, Ni, Zn, CN, O&G <sup>1</sup> , PCB} <sup>2</sup> ; [Ag, Cr, Cu, Pb, pH, TTO] <sup>3</sup>
GlaxoSmithKline <sup>4</sup> 14200 Shady Grove Road Rockville, MD 20850	Pharmaceutical Research and Development	{As, Cd, Hg, Mo, Ni, Zn, CN, O&G <sup>1</sup> , PCB} <sup>2</sup> ; [Ag, Cr, Cu, Pb, pH, TTO] <sup>3</sup>
Huntsman P&A Americas, LLC 7011 Muirkirk Road Beltsville, MD 20705	Pigment Production	{As, Cd, Hg, Mo, Ni, Zn, CN, O&G <sup>1</sup> , PCB} <sup>2</sup> ; [Ag, Cr, Cu, Pb, pH, TTO] <sup>3</sup>
Marva Maid of Landover 6300 Sheriff Road Landover, MD 20785	Dairy	{As, Cd, Hg, Mo, Ni, Zn, CN, O&G <sup>1</sup> , PCB} <sup>2</sup> ; [Ag, Cr, Cu, Pb, pH, TTO] <sup>3</sup>
MedImmune, Inc. 1 MedImmune Way Gaithersburg, MD 20878	Pharmaceutical Research and Development	{As, Cd, Hg, Mo, Ni, Zn, CN, O&G <sup>1</sup> , PCB} <sup>2</sup> ; [Ag, Cr, Cu, Pb, pH, TTO] <sup>3</sup>
National Archives and Records Administration 8601 Adelphi Road College Park, MD 20740	Federal Facility	{As, Cd, Hg, Mo, Ni, Zn, CN, O&G <sup>1</sup> , PCB} <sup>2</sup> ; [Ag, Cr, Cu, Pb, pH, TTO] <sup>3</sup>

**BLUE PLAINS DISCHARGERS**

**NONCATEGORICAL SIGNIFICANT INDUSTRIAL USERS**

**December 2017**

<u>INDUSTRY NAME &amp; ADDRESS</u>	<u>CATEGORY</u>	<u>STANDARDS</u>
National Institutes of Health 9000 Rockville Pike Bethesda, MD 20892	Federal Facility	{As, Cd, Hg, Mo, Ni, Zn, CN, O&G <sup>1</sup> , PCB} <sup>2</sup> ; [Ag, Cr, Cu, Pb, pH, TTO] <sup>3</sup>
National Institutes of Health (NIAID) 5625 Fishers Lane Rockville, MD 20852	Federal Facility	{As, Cd, Hg, Mo, Ni, Zn, CN, O&G <sup>1</sup> , PCB} <sup>2</sup> ; [Ag, Cr, Cu, Pb, pH, TTO] <sup>3</sup>
National Institutes of Standards & Technology 00 Muddy Branch Road Gaithersburg, MD 20899	Federal Facility	{As, Cd, Hg, Mo, Ni, Zn, CN, O&G <sup>1</sup> , PCB} <sup>2</sup> ; [Ag, Cr, Cu, Pb, pH, TTO] <sup>3</sup>
Naval Support Activity Bethesda 8901 Wisconsin Avenue Bethesda, MD 20889	Federal Facility	{As, Cd, Hg, Mo, Ni, Zn, CN, O&G <sup>1</sup> , PCB} <sup>2</sup> ; [Ag, Cr, Cu, Pb, pH, TTO] <sup>3</sup>
Nixon Uniform Services, Inc. 11860 Old Baltimore Pike Beltsville, MD 20705	Industrial Laundry	{As, Cd, Hg, Mo, Ni, Zn, CN, O&G <sup>1</sup> , PCB} <sup>2</sup> ; [Ag, Cr, Cu, Pb, pH, TTO] <sup>3</sup>
Oaks Sanitary Landfill 6001 Olney-Laytonville Road Laytonville, MD 20706	Sanitary Landfill	{As, Cd, Hg, Mo, Ni, Zn, CN, O&G <sup>1</sup> , PCB} <sup>2</sup> ; [Ag, Cr, Cu, Pb, pH, TTO] <sup>3</sup>
Pepsi Beverages Company 2611 Pepsi Place Cheverly, MD 20781	Bottling Company	{As, Cd, Hg, Mo, Ni, Zn, CN, O&G <sup>1</sup> , PCB} <sup>2</sup> ; [Ag, Cr, Cu, Pb, pH, TTO] <sup>3</sup>
Potomac Water Filtration Plant 12200 River Road Potomac, MD 20854	Water Filtration Plant	{As, Cd, Hg, Mo, Ni, Zn, CN, O&G <sup>1</sup> , PCB} <sup>2</sup> ; [Ag, Cr, Cu, Pb, pH, TTO] <sup>3</sup>
Ritchie Rubble Landfill 2001 Ritchie Marlboro Road Upper Marlboro, MD 20774	Solid Waste Landfill	{As, Cd, Hg, Mo, Ni, Zn, CN, O&G <sup>1</sup> , PCB} <sup>2</sup> ; [Ag, Cr, Cu, Pb, pH, TTO] <sup>3</sup>

**BLUE PLAINS DISCHARGERS**

**NONCATEGORICAL SIGNIFICANT INDUSTRIAL USERS  
December 2017**

<u>INDUSTRY NAME &amp; ADDRESS</u>	<u>CATEGORY</u>	<u>STANDARDS</u>
UniFirst Corporation 6201 Sheriff Road Landover, MD 20785	Industrial Laundry	As, Cd, Hg, Mo, Ni, Zn, CN, O&G <sup>1</sup> , PCB <sup>2</sup> ; Ag, Cr, Cu, Pb, pH, TTO <sup>3</sup>
United Therapeutics Corporation 1040 Spring St. Silver Spring, MD 20910	Pharmaceutical Manufacturing	As, Cd, Hg, Mo, Ni, Zn, CN, O&G <sup>1</sup> , PCB <sup>2</sup> ; Ag, Cr, Cu, Pb, pH, TTO <sup>3</sup>
Washington Metro Transit Authority (Greenbelt) 5801 Sunnyside Avenue Beltsville, MD 20705	Rail Car Maintenance and Cleaning	As, Cd, Hg, Mo, Ni, Zn, CN, O&G <sup>1</sup> , PCB <sup>2</sup> ; Ag, Cr, Cu, Pb, pH, TTO <sup>3</sup>
Washington Metro Transit Authority (Shady Grove) 15903 Somerville Dr. Rockville, MD 20855	Rail Car Maintenance and Cleaning	As, Cd, Hg, Mo, Ni, Zn, CN, O&G <sup>1</sup> , PCB <sup>2</sup> ; Ag, Cr, Cu, Pb, pH, TTO <sup>3</sup>

<sup>1</sup> Oil & Grease (Nonpolar, Petroleum)

<sup>2</sup> Blue Plains' local limits

<sup>3</sup> WSSC's local limits

<sup>4</sup> Initial Permit issued on 1/10/2017

**BLUE PLAINS DISCHARGERS  
NONCATEGORICAL SIGNIFICANT INDUSTRIAL USERS  
LOCAL DISCHARGE LIMITATIONS**

<u>POLLUTANT</u>	<u>LIMIT</u>
Arsenic	0.23 mg/l*
Cadmium	0.07 mg/l*
Chromium	7.0 mg/l
Copper	2.0 mg/l
Cyanide	0.56 mg/l*
Lead	0.4 mg/l
Mercury	<0.001 mg/l*
Molybdenum	0.89 mg/l*
Nickel	2.2 mg/l*
Silver	1.2 mg/l
Zinc	3.4 mg/l*
Polychlorinated Biphenyls	Non-detect <sup>1</sup> *
 Total Toxic Organics	 2.13 mg/l
 BOD (5-day, 20°c)	 300 mg/l
COD	500 mg/l
Fats, Oil & Grease (Polar)	100 mg/l
Oil & Grease (Nonpolar, Petroleum)	100 mg/l*
pH	6.0 - 10.0 units
Temperature	140°F
Dissolved Solids	1,500 mg/l
Suspended Solids	400 mg/l
Total Solids	1,900 mg/l

\*Alternate limit applicable to Blue Plains' dischargers

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<sup>1</sup> Total PCBs shall be measured using EPA Method 608 with a detection limit of at least 0.001 mg/l.

**BLUE PLAINS DISCHARGERS  
SIGNIFICANT INDUSTRIAL USER CONTROL DOCUMENTS  
2017**

	<u>Industrial User</u>	<u>Issuance Date</u>	<u>Effective Date</u>	<u>Expiration Date</u>
1	Adelphi Laboratory Center	05/19/16	05/22/16	06/30/20
2	ATK Space Systems	06/20/16	06/21/16	06/20/20
-	Bethesda Art Metal Works, Inc. <sup>1</sup>	07/28/16	08/11/16	NA <sup>1</sup>
3	Coca-Cola Bottling Company Consolidated	06/06/16	06/06/16	06/05/20
4	District Photo, Inc.	06/09/16	06/13/16	06/12/20
5	Eaton Corporation	06/27/16	06/28/16	06/27/20
6	Emergent BioSolutions <sup>2</sup>	10/03/16	10/03/16	10/02/20
7	Fort Detrick-Forest Glen Annex	09/22/16	09/22/16	09/21/20
8	GlaxoSmithKline	01/09/17	01/10/17	01/09/21
9	Human Genome Sciences, Inc. (LSM)	01/10/15	01/10/15	01/09/19
10	Human Genome Sciences, Inc. (SSM)	10/20/16	10/22/16	10/21/20
11	Huntsman P&A Americas, LLC	06/28/16	06/28/16	06/27/20
12	InnoScience, Inc. <sup>3</sup>	10/03/16	10/03/16	10/02/20
13	Marva Maid of Landover	07/26/16	07/28/16	07/27/20
14	Maryland Metal Plating & Polishing	06/09/16	06/12/16	06/11/20
15	MedImmune, Inc.	02/01/16	02/04/16	02/03/20
16	Mid-Atlantic Finishing, Inc.	05/22/16	05/22/16	05/21/20
17	National Archives and Records Administration	10/11/16	10/11/16	10/10/20
18	National Institute of Standards and Technology	05/26/16	06/01/16	05/31/20
19	National Institutes of Health	06/02/16	06/06/16	06/05/20
20	National Institutes of Health (NIAID)	05/19/17	05/19/17	05/18/21
21	Naval Support Activity Bethesda	08/29/16	08/31/16	08/30/20
22	Nixon Uniform Services, Inc.	06/27/16	06/28/16	06/27/20
23	Oaks Sanitary Landfill	08/29/16	08/31/16	08/30/20
24	Pepsi Beverages Company	06/20/16	06/22/16	06/21/20
25	Potomac Water Filtration Plant	09/08/16	10/05/16	10/04/20
26	Ritchie Rubble Landfill	02/06/17	02/08/17	02/07/21
27	UniFirst Corporation	05/26/16	05/30/16	05/29/20
28	United Therapeutics Corporation	09/30/15	09/30/15	09/29/19
29	University of MD/DOD	06/23/16	06/27/16	06/26/20
30	Wash. Metro Transit Authority (Greenbelt)	09/04/15	09/04/15	09/03/19
31	Wash. Metro Transit Authority (Shady Grove)	03/23/14	03/23/14	03/22/18

<sup>1</sup> Industry permit modified to Zero Discharger on 10/31/2017. This industry now has a zero discharge permit and therefore, is not counted in the total number of CIUs on the Part A worksheet.

<sup>2</sup> Formerly Sanofi Pasteur Biologics Co., permit modified for name change on 10/6/2017

<sup>3</sup> Industry ceased discharging during 2017 (permit inactivation in process)



**CATEGORICAL SIGNIFICANT INDUSTRIAL USERS (CIU)  
COMPLIANCE SAMPLING AND INVESTIGATION SUMMARY  
CY 2017**

<u>INDUSTRY NAME AND ADDRESS</u>	<u>ID #</u>	<u>NUMBER OF SAMPLING VISITS</u>	<u>NUMBER OF INSPECTION VISITS</u>	<u>NUMBER OF SELF- MONITORING EVENTS</u>	<u>NUMBER OF SELF- MONITORING EVENTS REQUIRED</u>
Adelphi Laboratory Center 2800 Powder Mill Road Adelphi, MD 20783	00166	2-Outfall 001	2	4	4
ATK Space Systems, Inc. 11313 Frederick Avenue Beltsville, MD 20705	08027	1-Outfall 001 1-Outfall 002	1	8 8	8 8
Bethesda Art Metal Works <sup>1</sup> 4955 Bethesda Avenue Bethesda, MD 20814	06720	1	5	2 <sup>2</sup>	8
Eaton Corporation 11642 Old Baltimore Pike Beltsville, MD 20705	00405	3 <sup>3</sup> -Outfall 003 1-Outfall 004	1	8 8	8 8
Emergent BioSolutions <sup>4</sup> 9920 Medical Center Drive Rockville, MD 20850	10618	5 <sup>5</sup>	2	8	8
Human Genome Sciences (LSM) 9911 Belward Campus Drive Rockville, MD 20850	10116	6 <sup>6</sup>	2	8 8 extra pH events	8
Human Genome Sciences (SSM) 9910 Belward Campus Drive Rockville, MD 20850	08093	7 <sup>6</sup>	3	8 15 extra pH events 3 add'l pH per NOV 1 add'l Tetrahydrofuran per NOV	8



**CATEGORICAL SIGNIFICANT INDUSTRIAL USERS (CIU)  
COMPLIANCE SAMPLING AND INVESTIGATION SUMMARY  
CY 2017**

<u>INDUSTRY NAME AND ADDRESS</u>	<u>ID #</u>	<u>NUMBER OF SAMPLING VISITS</u>	<u>NUMBER OF INSPECTION VISITS</u>	<u>NUMBER OF SELF- MONITORING EVENTS</u>	<u>NUMBER OF SELF- MONITORING EVENTS REQUIRED</u>
Innocence, Inc. <sup>7</sup> 15892 Gaither Drive, Suite A Gaithersburg, MD 20877	13990	0 <sup>7</sup>	2	0 <sup>8</sup>	8
Maryland Plating & Polishing 4110 Howard Avenue Kensington, MD 20895	07777	4 <sup>6</sup>	3	8	8
Mid-Atlantic Finishing, Inc. 4656 Addison Road Capitol Heights, MD 20743	07771	6 <sup>6</sup>	2	8	8
United Therapeutics, Corp 1040 Spring Street Silver Spring, MD 20910	13288	6 <sup>6</sup> -Outfall 001 1-Outfall 002 2-Outfall 003 <sup>10</sup>	2	8 7 extra pH event 20 4 4 extra flow 2 extra Acetone and Methylene Chloride 4 2 extra flow 4 2 extra flow	8 20 <sup>9</sup> 4
University of MD/DOD 8050 Greenmeade Drive College Park, MD 20740	07987	1-Outfall 004 <sup>10</sup> 3-Outfall 005 <sup>10</sup>	1	5 <sup>6</sup> 8 2 add'l TTO per NOV	8





**NON-CATEGORICAL SIGNIFICANT INDUSTRIAL USERS (SIU)  
COMPLIANCE SAMPLING AND INVESTIGATION SUMMARY  
CY 2017**

<u>INDUSTRY NAME AND ADDRESS</u>	<u>ID #</u>	<u>NUMBER OF SAMPLING VISITS</u>	<u>NUMBER OF INSPECTION VISITS</u>	<u>NUMBER OF SELF- MONITORING EVENTS</u>	<u>NUMBER OF SELF- MONITORING EVENTS REQUIRED</u>
Adelphi Laboratory Center 2800 Powder Mill Road Adelphi, MD 20783	00166	4 <sup>6</sup> - Outfall FAC	2	8 2 add'l CN per NOV	8
Coca-Cola Bottling Company Consolidated 1710 Elton Road Silver Spring, MD 20903	00080	6 <sup>6</sup>	2	8 16 extra pH 5 add'l pH per SNC	8
District Photo, Inc. 10619 Baltimore Avenue Beltsville, MD 20705	03812	3 <sup>3</sup>	1	8	8
Fort Detrick-Forest Glen Annex 9100 Brookville Road Silver Spring, MD 20910	08091	3 <sup>3</sup>	2	8	8
GlaxoSmithKline 14200 Shady Grove Road Rockville, MD 20850	14006	6 <sup>6</sup>	2	8 2 add'l full per NOV	8
Huntsman P&A Americas, LLC 7011 Muirkirk Road Beltsville, MD 20705	00056	3 <sup>3</sup>	2	4 <sup>11</sup>	8
Marva Maid of Landover 1805 South Club Drive Landover, MD 20785	00238	6 <sup>6</sup>	2	8 8 extra pH events	8
MedImmune, Inc. 1 MedImmune Way Gaithersburg, MD 20878	10801	2 <sup>3</sup>	1	8 1 add'l pH per NOV 1 add'l TTO per NOV	8



**NON-CATEGORICAL SIGNIFICANT INDUSTRIAL USERS (SIU)  
COMPLIANCE SAMPLING AND INVESTIGATION SUMMARY  
CY 2017**

<u>INDUSTRY NAME AND ADDRESS</u>	<u>ID #</u>	<u>NUMBER OF SAMPLING VISITS</u>	<u>NUMBER OF INSPECTION VISITS</u>	<u>NUMBER OF SELF- MONITORING EVENTS</u>	<u>NUMBER OF SELF- MONITORING EVENTS REQUIRED</u>
National Archives and Records Administration 8601 Adelphi Road College Park, MD 20740	08017	4 <sup>6</sup>	2	8 3 add'l TTO per NOV 5 add'l TTO per SNC	8
National Institutes of Standards & Technology Building 301, Room 124 Gaithersburg, MD 20899	05813	5 <sup>6</sup>	2	8 2 extra O&G (non-polar petroleum) 2 extra CN	8
National Institutes of Health 9000 Rockville Pike Bethesda, MD 20892	08111	3 <sup>3</sup>	1	8	8
National Institutes of Health (NIAID) 5625 Fishers Lane Rockville, MD 20854	08108	6 <sup>6</sup>	1	8 1 add'l Hg per NOV 2 add'l Hg per SNC	8
Naval Support Activity Bethesda 8901 Wisconsin Avenue Bethesda, MD 20889	06501	3 <sup>3</sup>	2	8 4 add'l pH per NOV 1 add'l TTO per NOV	8
Nixon Uniform Services, Inc. 11860 Old Baltimore Pike Beltsville, MD 20705	08095	3 <sup>3</sup>	1	8 3 add'l pH per NOV 4 extra pH	8
Oaks Sanitary Landfill 6001 Olney-Laytonsville Rd. Laytonsville, MD 20706	07741	2	3	12 2 add'l TTO per NOV	12



**NON-CATEGORICAL SIGNIFICANT INDUSTRIAL USERS (SIU)  
COMPLIANCE SAMPLING AND INVESTIGATION SUMMARY  
CY 2017**

<u>INDUSTRY NAME AND ADDRESS</u>	<u>ID #</u>	<u>NUMBER OF SAMPLING VISITS</u>	<u>NUMBER OF INSPECTION VISITS</u>	<u>NUMBER OF SELF- MONITORING EVENTS</u>	<u>NUMBER OF SELF- MONITORING EVENTS REQUIRED</u>
Pepsi Beverages Company One Pepsi Place Cheverly, MD 20781	00140	6 <sup>6</sup>	2	8 8 extra pH	8
Potomac Water Filtration Plant 12200 River Road Potomac, MD 20854	14011	3 <sup>3</sup>	1	8 2 add'l pH per NOV 2 add'l full events per NOV	8
Ritchie Rubble Landfill 2001 Ritchie Marlboro Road Upper Marlboro, MD 20774	08101	1 – Outfall FAC 1 – Outfall 001	1	8 8 1 extra O&G	8 8
UniFirst Corporation 6201 Sheriff Road Landover, MD 20785	00100	5 <sup>6</sup>	3	8 3 add'l TTO per NOV 7 add'l pH per NOV 3 add'l O&G (Non-polar, petroleum) per NOV	8
Washington Metro Transit Authority (Greenbelt) 5801 Sunnyside Avenue Beltsville, MD 20705	10123	7 <sup>6</sup>	1	8	8
Washington Metro Transit Authority (Shady Grove) 15903 Somerville Drive Rockville, MD 20855	08107	7 <sup>6</sup>	2	8 1 add'l TTO per NOV	8

1 Permit Modified to Zero Discharger on 10/31/2017  
 2 No process discharge during 2nd, 3rd, & 4th quarters of 2017  
 3 Industry was sampled for 1 full event, remainder of events were pH only  
 4 Permit Modified for name change on 10/6/2017

- 5 Industry was sampled for 3 full events, remainder of events were pH only
- 6 Industry was sampled for 2 full events, remainder of events were pH only
- 7 Industry ceased discharging during 2017 (permit inactivation in process)
- 8 No process flow during CY 2017
- 9 Permit required events are variable depending on process discharges
- 10 Permit modified for established new monitoring points on 6/1/2017
- 11 No process flow 1st and 2nd quarters of 2017

**FACILITIES NOT INSPECTED AND REASON  
CY2017**

FACILITY  
None

REASON

**FACILITIES NOT SAMPLED AND REASON  
CY 2017**

FACILITY

InnoScience, Inc.

REASON

No process flow in CY 2017.

**FACILITIES CONDUCTING LESS THAN THE REQUIRED NUMBER  
OF SELF-MONITORING EVENTS  
CY 2017**

FACILITY

Bethesda Art Metal Works  
Huntsman P&A Americas, LLC.  
InnoScience, Inc.

REASON

No process flow 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters  
No process flow 1<sup>st</sup> and 2<sup>nd</sup> quarters  
No process flow in CY 2017



BLUE PLAINS DISCHARGERS SIGNIFICANT INDUSTRIAL USERS IN SNC 2017 <sup>1</sup>				
<u>INDUSTRIAL USER</u>	<u>EVALUATION FOR SNC</u>	<u>PERIOD</u>	<u>ACTIONS PLANNED OR TAKEN</u>	<u>CURRENT STATUS</u>
National Institutes of Health (NIAID) <sup>2</sup>	SNC for mercury daily maximum violation	April 2017 – September 2017	Notice of Violation, Directive, Additional Monitoring, and Publication	Compliance Pending
Human Genome Sciences, Inc. (SSM)	SNC for tetrahydrofuran monthly average violation	July 2017 - December 2017	Notice of Violation, Directive, Additional Monitoring, and Publication	Compliance Pending
Nixon Uniform Services, Inc.	SNC for Failure to Notify	July 2017 - December 2017	Notice of Violation, Directive, and Publication	Compliance

<sup>1</sup> The evaluation periods include: October 2016-March 2017, January 2017-June 2017, April 2017-September 2017 and July 2017-December 2017.

<sup>2</sup> The facility will be published as “National Institute of Health – 5625 Fishers Lane” for the SNC publication because of the name change in Jan 2018.

**SIGNIFICANT INDUSTRIAL USER IN SNC FOR THIS REPORTING YEAR AND LAST REPORTING YEAR**

INDUSTRIAL USER

None

REASON FOR SNC



**BLUE PLAINS DISCHARGERS  
SIGNIFICANT INDUSTRIAL USERS ON FORMAL COMPLIANCE SCHEDULES  
2017**

<u>INDUSTRIAL USERS</u>	<u>TYPE OF SCHEDULE</u>	<u>DATE OF VIOLATION</u>	<u>DATE COMPLIANCE SCHEDULE ISSUED</u>	<u>REASON</u>	<u>FINAL COMPLIANCE DATE (FCD)</u>	<u>CURRENT STATUS</u>	<u>COMPLIANCE EXPECTED BY FCD</u>
Adelphi Laboratory Center	Directive	7/30/2016	3/17/2017	Corrective Measures	3/24/2017	Compliance	N/A
Adelphi Laboratory Center	Directive	10/7/2017	11/29/2017	Corrective Measures	12/14/2017	Compliance	N/A
Human Genome Sciences, (SSM)	Directive	4/27/2017	6/27/2017	Corrective Measures	7/1/2017	Compliance	N/A
Human Genome Sciences, (SSM)	Directive	11/8/2017 11/30/2017	1/12/2018	Corrective Measures	2/28/2018	Interim	2/28/2018
InnoScience, Inc.	Directive	N/A	6/27/2017	Complete Facility Shutdown	7/14/2017	Interim	3/9/2018
InnoScience, Inc.	Directive	7/14/2017	2/28/2018	Complete Facility Shutdown	3/9/2018	Interim	3/9/2018
MedImmune, Inc.	Directive	10/10/2017 10/11/2017	2/7/2018	Corrective Measures	2/21/2018	Compliance	N/A
National Archive And Records Administration	Directive	1/9/2017	6/8/2017	Corrective Measures	6/15/2017	Compliance	N/A
National Institute of Standards and Technology	Directive	7/7/2017	8/11/2017	Corrective Measures	8/31/2017	Compliance	N/A
National Institutes of Health (NIAID)	Directive	8/23/2017	1/2/2018	Corrective Measures	1/26/2018	Compliance	N/A
National Institutes of Health (NIAID)	Directive	8/23/2017	2/8/2018	Corrective Measures	2/14/2018	Compliance	N/A



<u>INDUSTRIAL USERS</u>	<u>TYPE OF SCHEDULE</u>	<u>DATE OF VIOLATION</u>	<u>DATE COMPLIANCE SCHEDULE ISSUED</u>	<u>REASON</u>	<u>FINAL COMPLIANCE DATE (FCD)</u>	<u>CURRENT STATUS</u>	<u>COMPLIANCE EXPECTED BY FCD</u>
Naval Support Activity Bethesda	Directive	1/7/2017	3/29/2017	Corrective Measures	4/10/2017	Compliance	N/A
Naval Support Activity Bethesda	Directive	3/31/2017	6/19/2017	Corrective Measures	6/30/2017	Compliance	N/A
Naval Support Activity Bethesda	Directive	10/7/2017	11/3/2017	Corrective Measures	11/27/2017	Compliance	N/A
Naval Support Activity Bethesda	Directive	11/23/2017	12/14/2017	Resample	12/28/2017	Compliance	N/A
Nixon Uniform Services, Inc.	Directive	6/28/2017	9/25/2017	Pretreatment Modifications	10/6/2017	Compliance	N/A
Nixon Uniform Services, Inc.	Directive	10/26/2017	11/29/2017	Corrective Measures	12/15/2017	Compliance	N/A
Nixon Uniform Services, Inc.	Directive	11/13/2017 11/14/2017	12/19/2017	Corrective Measures	12/30/2017	Compliance	N/A
UniFirst Corporation	Directive	2/6/2017 3/8/2017	4/25/2017	Corrective Measures	6/26/2017	Compliance	N/A
UniFirst Corporation	Directive	4/7/2017	6/23/2017	Corrective Measures	7/7/2017	Compliance	N/A
UniFirst Corporation	Directive	8/9/2017 8/30/2017	10/4/2017	Corrective Measures	10/15/2017	Compliance	N/A
UniFirst Corporation	Directive	10/31/2017	12/6/2017	Corrective Measures	12/15/2017	Compliance	N/A
WMATA-Shady Grove	Directive	10/7/2017	11/8/2017	Corrective Measures	11/10/2017	Compliance	N/A



**COPY OF NEWSPAPER LISTING OF SIGNIFICANT INDUSTRIAL USERS (SIUS)  
IN SIGNIFICANT NONCOMPLIANCE (SNC)  
DURING THE CALENDAR YEAR 2017**

WSSC has not yet published the list of SIUs in SNC for the calendar year. A copy of the newspaper listing will be forwarded to DC Water no later than June 30, 2018.

**BLUE PLAINS DISCHARGERS  
SIGNIFICANT INDUSTRIAL USERS (SIUs) ISSUED  
NOTICES OF VIOLATION (2017)**

<u>CATEGORICAL SIU's</u>	<u>NUMBER ISSUED</u>
Adelphi Laboratory Center IWMP 001	1
Emergent BioSolutions	1
Human Genome Sciences, Inc. (SSM)	2 <sup>1</sup>
InnoScience, Inc.	1
University of MD/DOD, Physical Sciences Laboratory	1
<u>NON-CATEGORICAL SIU's</u>	
Fort Detrick-Forest Glen Annex	1
National Archives and Records Administration	1 <sup>1</sup>
National Institute of Standards and Technology	1
National Institutes of Health (NIAID)	1
Naval Support Activity Bethesda	4
Nixon Uniform Services	3 <sup>1</sup>
Oaks Sanitary Landfill	1
Potomac Water Filtration Plant	1
Unifirst Corporation	5 <sup>1</sup>
WMATA (Shady Grove)	1
	TOTAL = 25 NOVs

<sup>1</sup> Notice of Violation issued for multiple non-compliance occurrences.



**BLUE PLAINS DISCHARGERS**

**SIGNIFICANT INDUSTRIAL USERS ISSUED  
ADMINSTRATIVE ORDERS in 2017**

<u>INDUSTRIAL USER</u>	<u>ACTION</u>	<u>NUMBER ISSUED</u>
None		

**SIGNIFICANT INDUSTRIAL USERS THAT HAVE BEEN SUED  
FOR PRETREATMENT VIOLATIONS in 2017**

<u>INDUSTRIAL USER</u>	<u>DATE FILED</u>	<u>REASON FOR SUIT</u>	<u>STATUS</u>
None			



**SIGNIFICANT INDUSTRIAL USERS ASSESSED  
PENALTIES IN 2017**

<b><u>INDUSTRIAL USER</u></b>	<b><u>PENALTY AMOUNT</u></b>	<b><u>REASON</u></b>	<b><u>AMOUNT COLLECTED</u></b>
UniFirst Corporation	\$250	Failure to submit a complete PCR	\$250
UniFirst Corporation	\$500	Failure to submit a complete PCR	\$500
UniFirst Corporation	\$250	Oil & Grease (Non-polar, Petroleum)	\$250
UniFirst Corporation	\$500	Oil & Grease (Non-polar, Petroleum)	\$500

**TOTAL ASSESSED:** \$1500 in 2017

**TOTAL COLLECTED:** \$1500 in 2017

**PENALTIES ASSESSED IN 2016 AND COLLECTED IN 2017**

**INDUSTRIAL USER**  
None

**AMOUNT COLLECTED**



**DESCRIPTION OF ALL ACTIONS WHICH HAVE BEEN  
INCLUDED AS ADMINISTRATIVE ORDERS  
2017**

**DESCRIPTION OF ANY "OTHER ACTION"**

No "other actions" were taken.

**LIST OF SIUs THAT HAD SNC VIOLATIONS BUT WERE NOT SUBJECT  
TO ENFORCEMENT**

INDUSTRIAL USER

REASON FOR NO ACTION

None

## **Attachment 3**

**Parts A and B with attachments for Fairfax  
County SIUs discharging to Blue Plains**

# PART A

## PRETREATMENT PERFORMANCE SUMMARY

### I. General Information

Control Authority Name		Fairfax County, VA (Contributing Jurisdiction) Blue Plains Wastewater Treatment Plant		
Address		5000 Overlook Avenue, S.W.		
City	Washington, D.C.	State	Zip+4	20032-5397
Contact Name	John Botts	Telephone No.	703-550-9740, ext.429	
Contact Title	Pretreatment Manager	E-mail Address	John.Botts@fairfaxcounty.gov	
NPDES No.	DC 0021199	Reporting Period	01-01-17 to 12-31-17	
Issuance Date	08/31/10	Expiration Date <sup>1</sup>	9/30/15 (NPDES permit has not been reissued as of 3/12/18)	
Total CIUs*	1	Total MTCIUs <sup>+</sup>	Not applicable	
Total SNIUs**	3	Total NSCIUs <sup>++</sup>	Not applicable	

\* CIUs - Categorical Industrial Users

<sup>+</sup>MTCIUs – Middle Tier Categorical Industrial Users

\*\* SNIUs - Significant Noncategorical Users

<sup>++</sup>NSCIUs – Nonsignificant Categorical Industrial Users

### II. Compliance Monitoring Program

1. No. of SIUs <sup>#</sup> with current Control Documents.....	4
2. No. of SIU Facilities Inspected.....	4
3. No. of SIU Facilities Sampled.....	4
4. No. of SIUs Submitting Self-Monitoring Reports.....	2 <sup>##</sup>

<sup>#</sup> SIUs – significant industrial users, which consist of CIUs and SNIUs

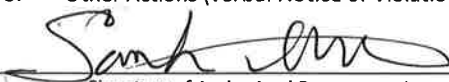
<sup>##</sup> Fairfax County monitors 2 of the 4 SIUs in lieu of user self-monitoring. See Attachment II. 1, Table note.

### III. Significant Industrial User Compliance

1. No. of SIUs Violating a Compliance Schedule / No. on a Schedule.....	0/0
2. No. of SIUs in Significant Non-Compliance (SNC) for the July to December period.....	0
3. No. of SIUs in SNC At Any Time During the Calendar Year.....	0
4. No. of SIUs in SNC That Were Also in SNC During the Previous Calendar Year	0
5. No. of NSCIUs that violated any standards or requirements	0

### IV. Enforcement Actions

1. Notices/Letters of Violation Issued to SIUs.....	0
2. Enforceable Compliance Schedules Issued to SIUs.....	0
3. Civil/Criminal Suits Filed.....	0
4. No. of SIUs from which Penalties have been Collected.....	0
5. Other Actions (verbal Notice of Violation).....	4

  
Signature of Authorized Representative

3/15/18  
Date

## **Attachment I - General Information**

- 1. SIU List and Designation**
- 2. Changes to SIU List**



## ATTACHMENT I — GENERAL INFORMATION

JURISDICTION Fairfax County, Virginia  
 SERVICE AREA Blue Plains Advanced Wastewater Treatment Plant

### 1. SIU List and designation

USER ID	USER INFORMATION	SPECIFY CATEGORY; IF NOT CATEGORICAL INDICATE NOT CIU
A30222	George Bush Center for Intelligence (GBCI) (formerly CIA Headquarters Rt. 123) 930 Dolly Madison Blvd* McLean, VA 22101	NOT CIU
A30320	Fairfax Water (formerly Fairfax County Water Authority) James J. Corbalis, Jr. Water Treatment Plant 1295 Fred Morin Road Herndon, VA 20170	NOT CIU
A30920	U.S. Geological Survey 12201 Sunrise Valley Drive* Reston, VA 20192	NOT CIU
001F	Precision Sheet Metal Supply, Inc. (within the Town of Herndon) 354 Victory Drive Herndon, VA 20170	CIU 40 CFR §433 (Metal Finishing)

\* Indicates that users have mailing addresses that differ from their premises addresses.

### 2. Changes to SIU list

Fairfax County conducts a continuous annual industrial waste survey in lieu of a survey once during the VPDES permit cycle (i.e., every five years) for the County's Noman M. Cole, Jr Pollution Control Plant (NMCPCP). Information for the survey is obtained through coordination with various County agencies, review of Fairfax Water's non-residential customer database, business inspections, applications for discharges to sanitary sewer, and a commercial database of businesses. During calendar year 2017, Fairfax County did not identify any new SIUs in Fairfax County that discharge to the Blue Plains Advanced Wastewater Treatment Plant (AWTP). The industrial waste survey report for 2017, which includes SIUs and surveyed businesses, is provided in Part B Appendix B.

Fairfax County continues to convey wastewater from the entire Town of Herndon to D.C. Water's Blue Plains AWTP under an agreement executed in 1990. The Town of Herndon has developed a pretreatment program to administer permits, assess compliance, and, as needed, take enforcement action to regulate sources of non-domestic wastewater located within the Town of Herndon. The Interjurisdictional Pretreatment Agreement with the Town of Herndon (dated 1995) requires Fairfax County's review of pretreatment permits issued by the Town, and the submittal of pretreatment reports by the Town to the County. The Town of Herndon currently administers the permit for a single SIU, Precision

## **ATTACHMENT I — GENERAL INFORMATION (Continued)**

Sheet Metal Supply, Inc., located in the Town. The Town of Herndon did not identify new SIUs within their jurisdictional boundaries during 2017 (see Part B Appendix C).

Fairfax County continues to convey wastewater from a portion of Arlington County to D.C. Water's Blue Plains AWTP under an agreement executed in 1994. Arlington County did not identify new SIUs in the noted area during 2017 (see Part B Appendix D).

No brine wastes (oil and gas drilling fluids) were known to be discharged to the County's portion of the Blue Plains AWTP service area in 2017.

## **Attachment II - Compliance Monitoring Program**

- 1. Control mechanism**
- 2. Permits administratively extended**
- 3. Facilities not inspected and reason**
- 4. Facilities not sampled and reason**
- 5. Number of POTW sampling events and inspections, number of self- monitoring events, and reports**

## ATTACHMENT II — COMPLIANCE MONITORING PROGRAM

JURISDICTION Fairfax County, Virginia  
 SERVICE AREA Blue Plains Advanced Wastewater Treatment Plant

### 1. Control mechanism

USER NAME & NO.	TYPE OF CONTROL MECHANISM	PERMIT DATES			PERMIT ACTIONS DURING THE REPORTING PERIOD
		ISSUANCE	EFFECTIVE	EXPIRATION	
GBCI* A30222	Individual permit	12-29-17	01-01-18	12-31-22	Permit reissued (copy provided in Appendix A)
Fairfax Water A30320	Individual permit	12-20-17	01-01-18	12-31-20	Permit reissued (copy provided in Appendix A)
USGS* A30920	Individual permit	12-20-17	01-01-18	12-31-20	Permit reissued (copy provided in Appendix A)
Precision Sheet Metal** 001F	Individual permit	11-20-13	11-20-13	11-19-18	None

\* In accordance with 40 CFR § 403.12, paragraphs (g) and (h), in lieu of user self-monitoring, Fairfax County collected and analyzed discharge samples from SIUs A30222 and A30920 to demonstrate continued compliance. Therefore, Part A, Pretreatment Performance Summary, Section II.4., indicates only 2 of the 4 SIUs (i.e. only Users A30320 and 001F) are required to submit self-monitoring reports.

\*\* User's CIU permit incorporates concentration-based limits as specified by 40 CFR Part 433.13 (metal finishing sub-category) and applicable local limits. Total toxic organics (TTO) monitoring requirement is waived because TTOs are not present; initial TTO monitoring conducted in 1991 and follow-up annual inspections confirm TTOs are not discharged. User implements an approved toxic organics management plan and submits a semi-annual statement certifying that TTOs are not present in the discharge.

**2. Permits administratively extended — NONE**

**3. Facilities not inspected and reason — NONE**

**4. Facilities not sampled and reason — NONE**

## ATTACHMENT II — COMPLIANCE MONITORING PROGRAM (Continued)

**5. Number of POTW sampling events and inspections for, and number of self-monitoring events and self-monitoring reports submitted by, each SIU.**

USER NAME & NO.	NO. BY POTW DURING THE YEAR		NO. BY USER DURING THE YEAR			
	SAMPLINGS	INSPECTIONS	SELF-MONITORING EVENTS CONDUCTED	REQUIRED	SELF-MONITORING REPORTS SUBMITTED	REQUIRED
GBCI A30222	2	1	0*	0*	0*	0*
Fairfax Water A30320	2	1	C**	C**	4	4
USGS A30920	2	1	0*	0*	0*	0*
Precision Sheet Metal 001F	1	1	2 <sup>+</sup>	2 <sup>+</sup>	4	4

\* In accordance with 40 CFR § 403.12, paragraphs (g) and (h), in lieu of users self-monitoring, Fairfax County (POTW) samples and analyzes the discharges from Users A30222 and A30920 in order to demonstrate continued compliance. Therefore, periodic compliance reporting is not required for these users.

\*\* "C" - User A30320 is required to continuously self-monitor the pH of the facility discharge.

<sup>+</sup> User 001F samples and analyzes the discharge from the regulated process for compliance with categorical standards semi-annually. In addition, User 001F tests pH twice daily during any day the regulated process is operated. During calendar year 2017, User 001F operated the regulated process 258 days, and monitored for pH 516 times.

## **Attachment III - Significant Industrial User Compliance**

- 1. Users in significant noncompliance (SNC), listed by quarter**
- 2. Users on compliance schedules (formal and informal)**
- 3. Summary of users' compliance status**

# ATTACHMENT III- SIGNIFICANT INDUSTRIAL USER COMPLIANCE

JURISDICTION Fairfax County, Virginia  
 SERVICE AREA Blue Plains Advanced Wastewater Treatment Plant

1. Users in significant noncompliance (SNC), listed by quarter — NONE
2. Users on compliance schedules (formal and informal) — NONE
3. Summary of users' compliance status

USER NAME & NO.	COMPLIANCE SUMMARY
GBCI A30222	<p>Monitoring and inspection indicates user consistently achieved compliance with pretreatment standards and inconsistently achieved compliance with pretreatment requirements in 2017.</p> <p>User was issued a verbal warning for not submitting flow reports by the specified due dates. User submitted the reports on November 20, 2017.</p> <p>This user is currently in compliance with the permit, Fairfax County's Sanitary Sewers and Sewage Disposal Code, and Blue Plains Service Area local limits.</p>
Fairfax Water A30320	<p>Monitoring and inspection indicates user consistently achieved compliance with pretreatment standards and inconsistently achieved compliance with pretreatment requirements in 2017.</p> <p>User was issued a verbal NOV on January 30, 2017 for a minor inaccuracy in the fourth quarter 2016 periodic compliance report submitted on January 6, 2017.</p> <p>This user is currently in compliance with the permit, Fairfax County's Sanitary Sewers and Sewage Disposal Code, and Blue Plains Service Area local limits.</p>
USGS A30920	<p>Monitoring and inspection indicates user consistently achieved compliance with pretreatment standards and requirements in 2017.</p> <p>This user is currently in compliance with the permit, Fairfax County's Sanitary Sewers and Sewage Disposal Code, and Blue Plains Service Area local limits.</p>

## ATTACHMENT III- SIGNIFICANT INDUSTRIAL USER COMPLIANCE (Continued)

USER NAME & NO.	COMPLIANCE SUMMARY
Precision Sheet Metal 001F	<p>Monitoring and inspection indicates user consistently achieved compliance with pretreatment standards and inconsistently achieved compliance with requirements in 2017.</p> <p>User was issued a verbal NOV by the Town of Herndon on April 19, 2017 for a minor inaccuracy in the periodic compliance report. User submitted a corrected report.</p> <p>User was issued a verbal NOV by the Town of Herndon on July 17, 2017 for submittal of a periodic compliance report signed by a person not designated as the authorized representative. User submitted a corrected report.</p> <p>User continued to implement a corrective action plan (revised March 28, 2017) that requires semi-annual self-monitoring for polychlorinated biphenyls (PCBs) until April 2018. Discharge monitoring results for 2017 indicate compliance with the Blue Plains local limit for PCBs.</p> <p>This user is currently in compliance with the permit, Fairfax County's Sanitary Sewers and Sewage Disposal Code, and Blue Plains Service Area local limits.</p>



## **Attachment IV - Enforcement Actions**

- 1. Users requiring formal compliance schedules**
- 2. Users issued written notices/letters of violation**
- 3. Number of criminal suits filed in court**
- 4. Users assessed penalties (if assessed, amount, reason, and if paid)**
- 5. Users issued administrative orders**
- 6. Users subject to "other actions" (written NOV to sewage handling contractors registered by Fairfax County)**
- 7. Copy of newspaper listing of users in significant non-compliance**
- 8. Users with violations but not subject to enforcement**

## ATTACHMENT IV — ENFORCEMENT ACTIONS

JURISDICTION Fairfax County, Virginia  
SERVICE AREA Blue Plains Advanced Wastewater Treatment Plant

1. Users requiring formal compliance schedules — NONE
2. Users issued notices/letters of violation — NONE
3. Number of criminal suits filed in court — NONE
4. Users assessed penalties (if assessed, amount, reason, and if paid) — NONE
5. Users issued administrative orders — NONE
6. Users subject to “other actions” (verbal Notice of Violation)

USER NAME & NO.	DATE OF ACTION	TYPE OF ACTION
A30222 GBCI	December 11, 2017	Verbal Warning
A30320 Fairfax Water	January 30, 2017	Verbal NOV
001F Precision Sheet Metal	April 19, 2017 July 17, 2017	Verbal NOV Verbal NOV

7. Copy of newspaper listing of users in significant non-compliance (submit by March 31 as an addendum if listing is published after report submission) — NOT APPLICABLE
8. Users with violations but not subject to enforcement — NOT APPLICABLE

## **Attachment 4**

**Parts A and B with attachments for Loudoun  
Water SIUs discharging to Blue Plains**

PART A  
PRETREATMENT PERFORMANCE SUMMARY\*

**I. General Information**

Control Authority Name		Loudoun Water			
Address		44865 Loudoun Water Way			
City	Ashburn	State	VA	Zip+4	20147-6109
Contact Person	Frank Stokes Jr.	Telephone No.	571-291-7834		
Contact Title	Regulatory Program Manager	E-mail Address	fstokes@loudounwater.org		
NPDES No.	DC 0021199	Reporting Period	01-01-17 to 12-31-17		
Issuance Date	08/31/10	Expiration Date*	09/30/15		
Total CIUs	1	Total MTCIUs	0		
Total SNIUs	0	Total NSCIUs	0		

CIUs - Categorical Industrial Users

MTCIUs - Middle Tier Categorical Industrial Users

SNIUs - Significant Noncategorical Industrial Users

NSCIUs - Nonsignificant Categorical Industrial Users

**II. Compliance Monitoring Program**

1. No. of SIUs with current Control Documents.....	1
2. No. of SIU Facilities Inspected.....	1
3. No. of SIU Facilities Sampled.....	1
4. No. of SIUs Submitting Self-Monitoring Reports.....	1

**III. Significant Industrial User Compliance**

1. No. of SIUs Violating a Compliance Schedule / No. on a Schedule.....	0
2. No. of SIUs in SNC for the July to December Period.....	0
3. No. of SIUs in SNC At Any Time During the Calendar Year.....	0
4. No. of SIUs in SNC That Were Also in SNC During the Previous Calendar Year	0
5. No. of NSCIUs that violated any standards or requirements	0

**IV. Enforcement Actions**

1. Notices/Letters of Violation Issued to SIUs.....	1
2. Enforceable Compliance Schedules Issued to SIUs.....	0
3. Civil/Criminal Suits Filed.....	0
4. No. of SIUs from which Penalties have been Collected.....	0
5. Other Actions (sewer bans, etc.).....	0

I certify that the information contained in this report and attachments is complete and accurate to the best of my knowledge (see Part B.V of the instructions).

FRANK STOKES JR

Name of Authorized Representative (Print)

REGULATORY PROGRAM MANAGER

Title (Print)

*Frank Stokes Jr.*

Signature of Authorized Representative

2/22/2018

Date

\*New NPDES permit has not been issued as of 12/31/17.

**Attachment for Section I**

<b>CATEGORICAL INDUSTRIAL USER (CIU)</b>	<b>CATEGORY</b>
TTM Technologies North America LLC 1200 Severn Way, Sterling VA 20166-8904	Metal Finisher

**Attachment for Section II**

SIGNIFICANT INDUSTRIAL USER (SIU)	CONTROL DOCUMENT ISSUANCE DATE	CONTROL DOCUMENT EFFECTIVE DATE	CONTROL DOCUMENT EXPIRATION DATE	CONDUCTED BY POTW DURING YEAR 2015		SELF MONITOR EVENTS CONDUCTED BY SIU	SELF MONITOR EVENTS REQ'D
				SAMPLING VISITS	INSPECTIONS		
TTM Technologies North America LLC	12/31/2015	11/1/2015	10/31/2020	1	1	12	12

**Attachment for Section III**

*No compliance schedules have been issued. During the 2016 calendar year, no user was in SNC with their permit.*

**Attachment for Section IV**

<b>SIGNIFICANT INDUSTRIAL USER (SIU)</b>	<b>USER PERMIT # NO.</b>	<b>NUMBER OF NOTICES OF VIOLATIONS IN YEAR 2017</b>
TTM Technologies North America LLC	005	1

## ATTACHMENT FOR PART B – PRETREATMENT DEVELOPMENTS

### I. Summary of POTW Operations

There were three hundred twenty-seven (327) loads of hauled waste (Domestic/Industrial) discharged to the DC Water Blue Plains WWTP via the S-17 Alternative Off-Loading site (Potomac Interceptor) during the 2017 calendar year while the septage receiving station was closed due to maintenance repairs, routine scheduled preventive maintenance and septage tank debris cleaning.

#### Domestic

Hauled Waste Total Loads -	214
Hauled Waste Total Gallons -	202,816

#### Industrial

Hauled Waste Total Loads -	113
Hauled Waste Total Gallons -	570,000
Average Daily Flow (Calc.)	19,655

The Bechtel Stonewall Energy Power Plant is classified under 40 CFR Part 423 under the Pretreatment Standards as a Steam Electric Power Generating Point Source. Bechtel Stonewall Energy was under contract with DC Water to receive their HRSG facility hydro static test water and boiler chemical clean water from their Natural Gas-Fired Power Plant from January through February 2017 during their initial testing and preparation stage. This facility does not discharge any liquids from their heat recovery steam generating facility to the sanitary sewer. However, since this facility is classified as a Categorical Industrial User, Loudoun Water will issue a Zero Liquid Discharge Permit with quarterly reporting requirements.

### II. Pretreatment Program Changes

Viasystems Technologies Corp. LLC officially changed its name to TTM Technologies North America LLC. This transaction was completed on October 23, 2017.

Loudoun Water has completed and submitted the Broad Run WRF Pretreatment Program to VADEQ during CY2017 Q4. VADEQ will review and approve the program during CY 2018. Loudoun Water will begin reporting pretreatment activities to VADEQ under this program following VADEQ approval.

The Virginia Department of Environmental Quality (VADEQ) will act as the Control Authority for all POTW centralizing the Virginia Dental Rule Compliance Forms. Thereafter, VADEQ will provide the information from Dental dischargers to all pretreatment coordinators with approved pretreatment programs.

# **Attachment 5**

## **Part A for the Town of Vienna**

**PART A  
PRETREATMENT PERFORMANCE SUMMARY\***

**I. General Information**

Control Authority Name		Town of Vienna			
Address		127 Center Street South			
City	Vienna	State	VA	Zip+4	22180
Contact Person	David Donahue		Telephone No.	703-319-8610	
Contact Title	Deputy Director, DPW		E-mail Address	david.donahue@viennava.gov	
NPDES No.	DC 0021199		Reporting Period	01-01-17 to 12-31-17	
Issuance Date	08/31/10		Expiration Date	09/30/15	
Total CIUs	0		Total MTCIUs	0	
Total SNIUs	0		Total NSCIUs	0	

CIUs - Categorical Industrial Users

MTCIUs - Middle Tier Categorical Industrial Users

SNIUs - Significant Noncategorical Industrial Users

NSCIUs - Nonsignificant Categorical Industrial Users

**II. Compliance Monitoring Program**

1. No. of SIUs with current Control Documents.....	0
2. No. of SIU Facilities Inspected.....	0
3. No. of SIU Facilities Sampled.....	0
4. No. of SIUs Submitting Self-Monitoring Reports.....	0

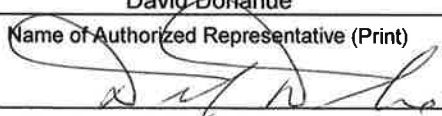
**III. Significant Industrial User Compliance**

1. No. of SIUs Violating a Compliance Schedule / No. on a Schedule.....	0
2. No. of SIUs in SNC for the July to December Period.....	0
3. No. of SIUs in SNC At Any Time During the Calendar Year.....	0
4. No. of SIUs in SNC That Were Also in SNC During the Previous Calendar Year	0
5. No. of NSCIUs that violated any standards or requirements	0

**IV. Enforcement Actions**

1. Notices/Letters of Violation Issued to SIUs.....	0
2. Enforceable Compliance Schedules Issued to SIUs.....	0
3. Civil/Criminal Suits Filed.....	0
4. No. of SIUs from which Penalties have been Collected.....	0
5. Other Actions (sewer bans, etc.).....	0

I certify that the information contained in this report and attachments is complete and accurate to the best of my knowledge (see Part B.V of the instructions).

David Donahue	Deputy Director, DPW
_____ Name of Authorized Representative (Print)	_____ Title (Print)
	1/8/2018
_____ Signature of Authorized Representative	_____ Date



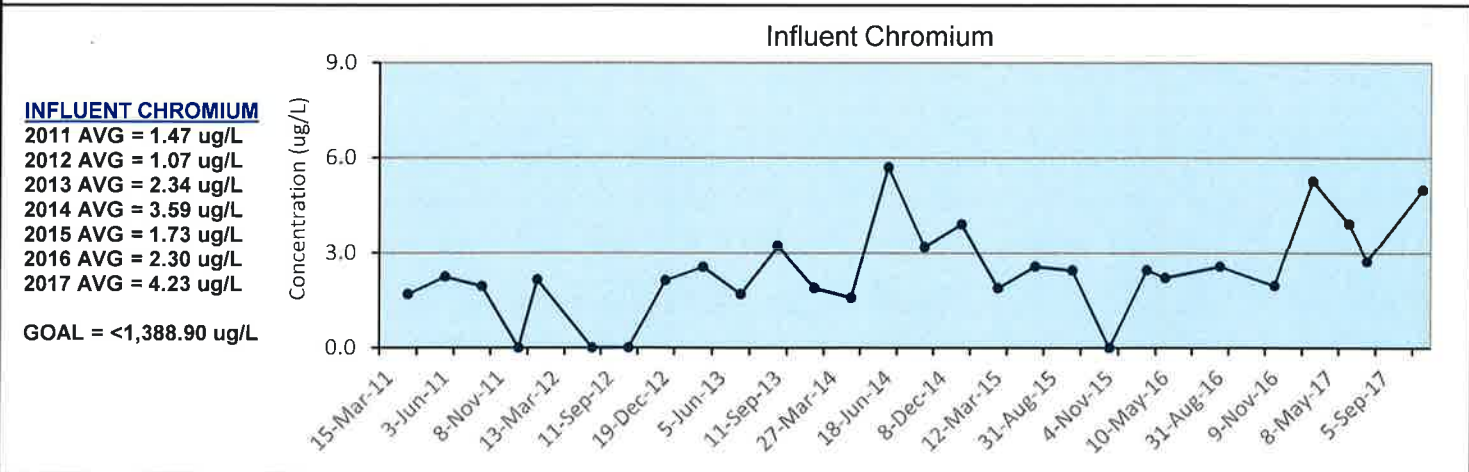
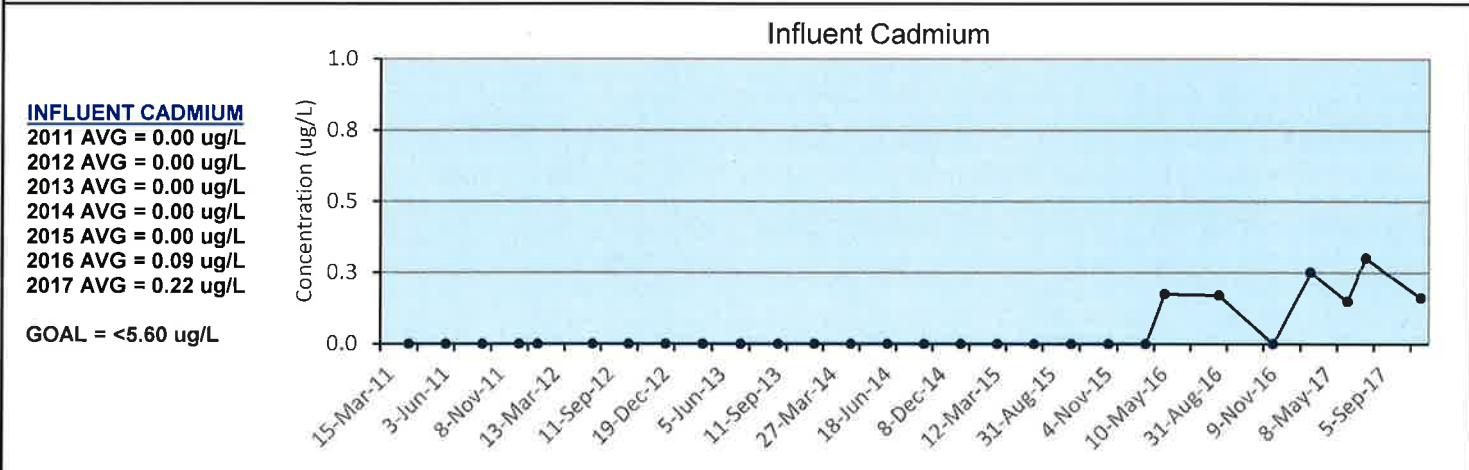
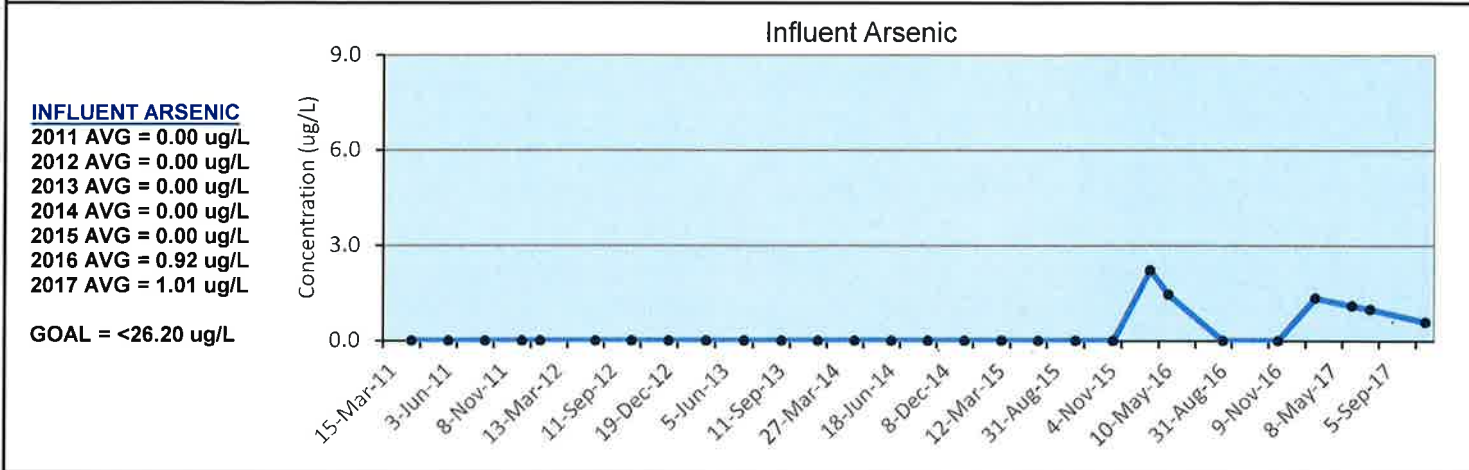
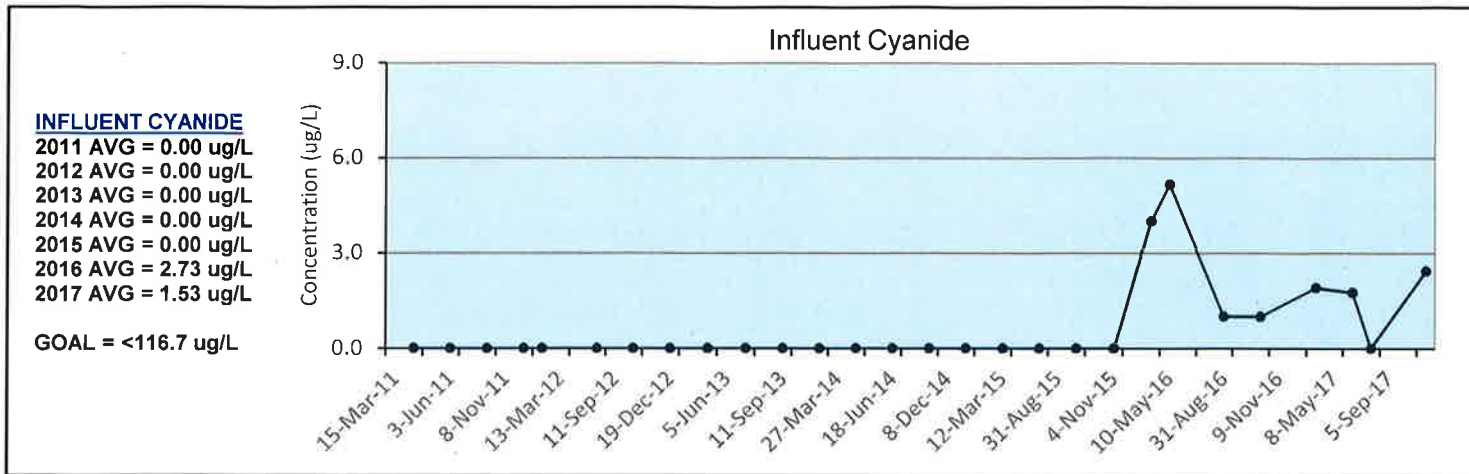
## **Attachment 6**

**Quarterly influent, effluent, and biosolids data  
(local limits), and  
Annual influent and biosolids data (priority  
pollutants)**





DC WATER BLUE PLAINS AWWP INFLUENT MONITORING DATA - 2011 to 2017

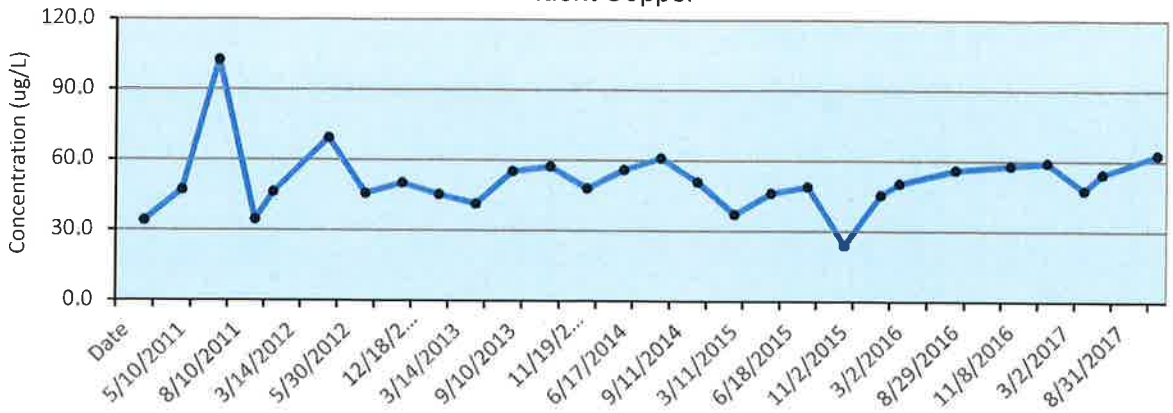


DC WATER BLUE PLAINS AWWP INFLUENT MONITORING DATA - 2011 to 2017

Influent Copper

**INFLUENT COPPER**  
 2011 AVG = 54.55 ug/L  
 2012 AVG = 52.85 ug/L  
 2013 AVG = 49.75 ug/L  
 2014 AVG = 53.95 ug/L  
 2015 AVG = 39.03 ug/L  
 2016 AVG = 52.43 ug/L  
 2017 AVG = 55.88 ug/L

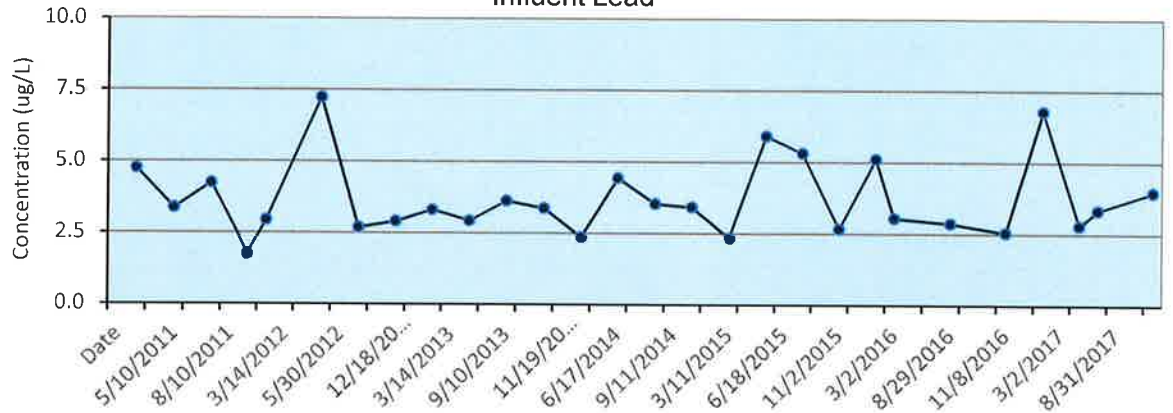
GOAL = <304.30 ug/L



Influent Lead

**INFLUENT LEAD**  
 2011 AVG = 3.53 ug/L  
 2012 AVG = 3.94 ug/L  
 2013 AVG = 3.30 ug/L  
 2014 AVG = 3.43 ug/L  
 2015 AVG = 4.06 ug/L  
 2016 AVG = 3.39 ug/L  
 2017 AVG = 4.21 ug/L

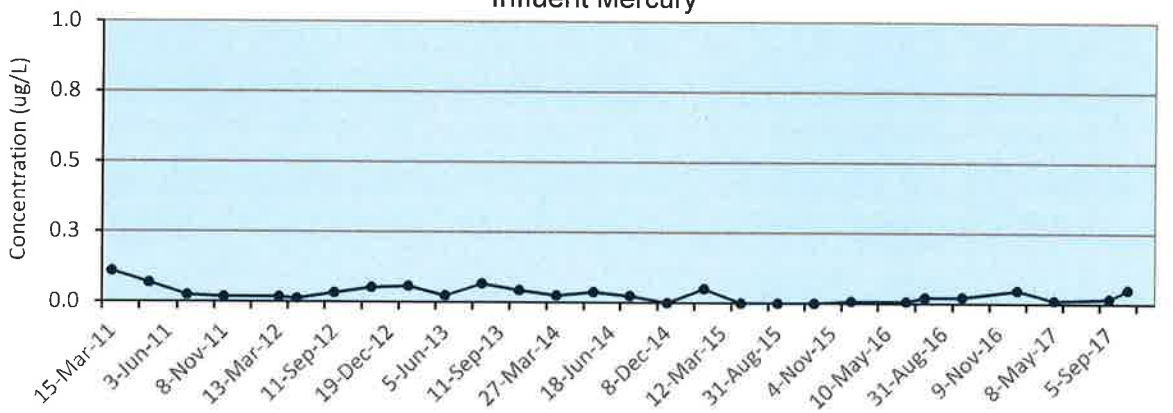
GOAL = <99.40 ug/L



Influent Mercury

**INFLUENT MERCURY**  
 2011 AVG = 0.0550 ug/L  
 2012 AVG = 0.0287 ug/L  
 2013 AVG = 0.0473 ug/L  
 2014 AVG = 0.0213 ug/L  
 2015 AVG = 0.0125 ug/L  
 2016 AVG = 0.0142 ug/L  
 2017 AVG = 0.0312 ug/L

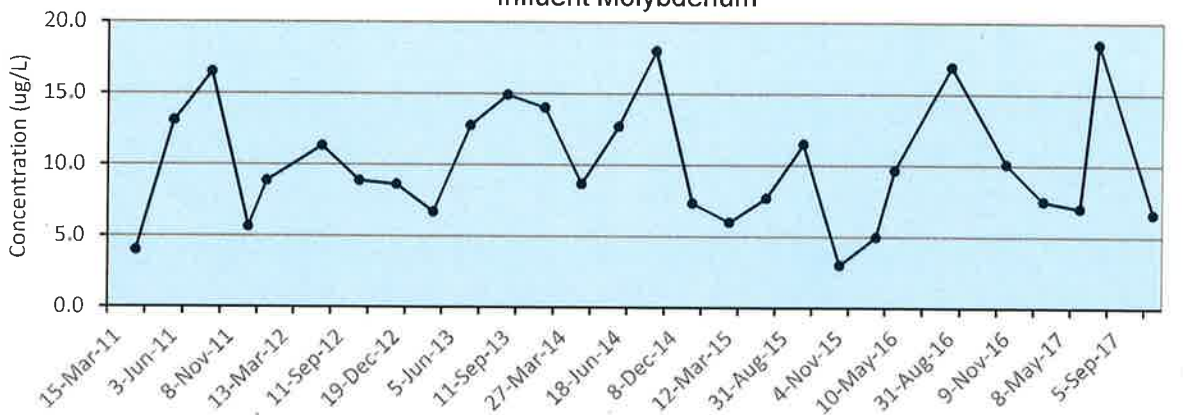
GOAL = <4.30 ug/L



Influent Molybdenum

**INFLUENT MOLYBDENUM**  
 2011 AVG = 9.81 ug/L  
 2012 AVG = 9.42 ug/L  
 2013 AVG = 12.09 ug/L  
 2014 AVG = 11.67 ug/L  
 2015 AVG = 7.05 ug/L  
 2016 AVG = 10.42 ug/L  
 2017 AVG = 9.90 ug/L

GOAL = <72.00 ug/L



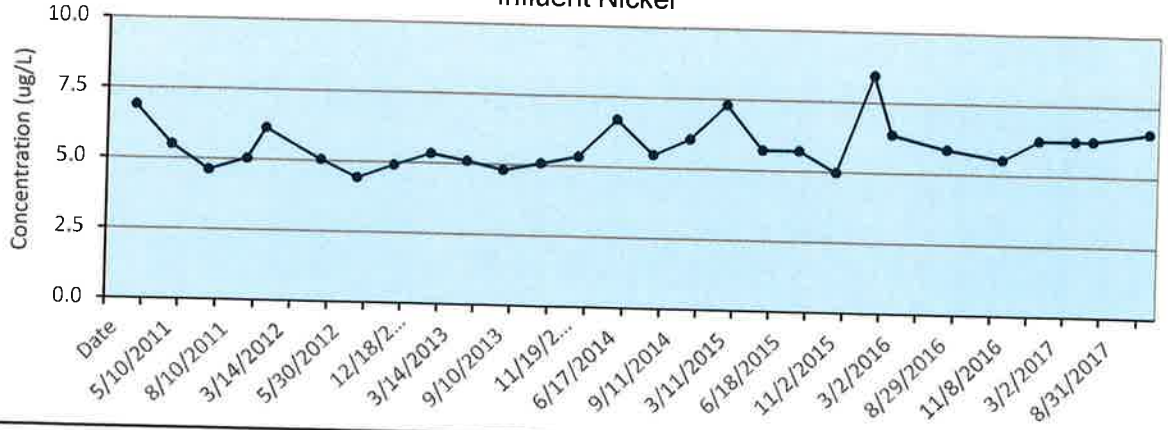
# DC WATER BLUE PLAINS AWTP INFLUENT MONITORING DATA - 2011 to 2017

## Influent Nickel

### INFLUENT NICKEL

2011 AVG = 5.51 ug/L  
 2012 AVG = 5.13 ug/L  
 2013 AVG = 5.08 ug/L  
 2014 AVG = 5.89 ug/L  
 2015 AVG = 5.92 ug/L  
 2016 AVG = 6.56 ug/L  
 2017 AVG = 6.32 ug/L

GOAL = <188.20 ug/L

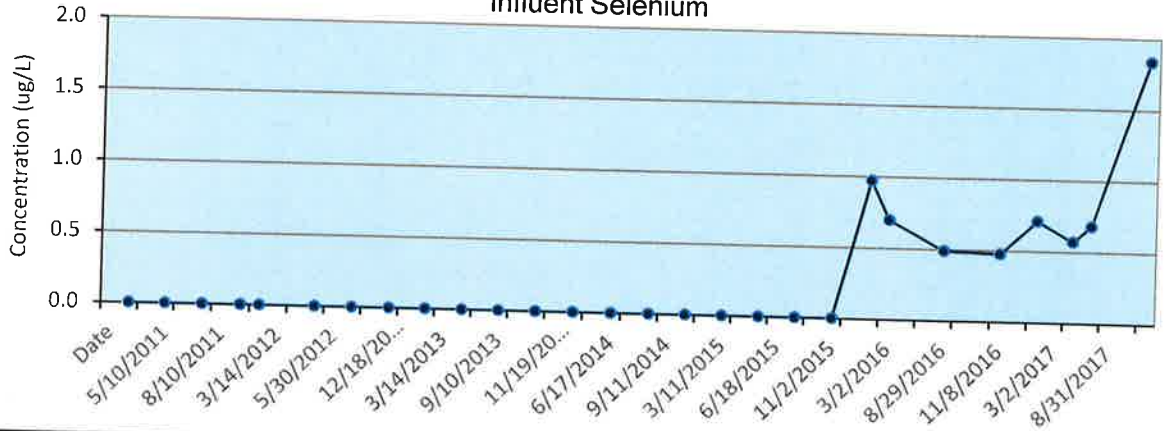


## Influent Selenium

### INFLUENT SELENIUM

2011 AVG = 0.00 ug/L  
 2012 AVG = 0.00 ug/L  
 2013 AVG = 0.00 ug/L  
 2014 AVG = 0.00 ug/L  
 2015 AVG = 0.00 ug/L  
 2016 AVG = 0.66 ug/L  
 2017 AVG = 0.95 ug/L

GOAL = <57.40 ug/L

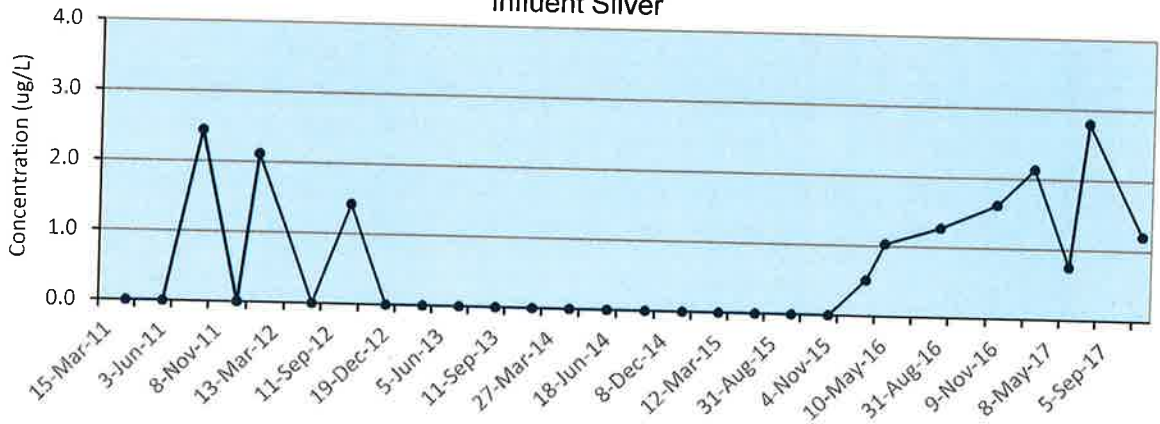


## Influent Silver

### INFLUENT SILVER

2011 AVG = 0.61 ug/L  
 2012 AVG = 0.88 ug/L  
 2013 AVG = 0.00 ug/L  
 2014 AVG = 0.00 ug/L  
 2015 AVG = 0.00 ug/L  
 2016 AVG = 1.10 ug/L  
 2017 AVG = 1.72 ug/L

GOAL = <104.70 ug/L

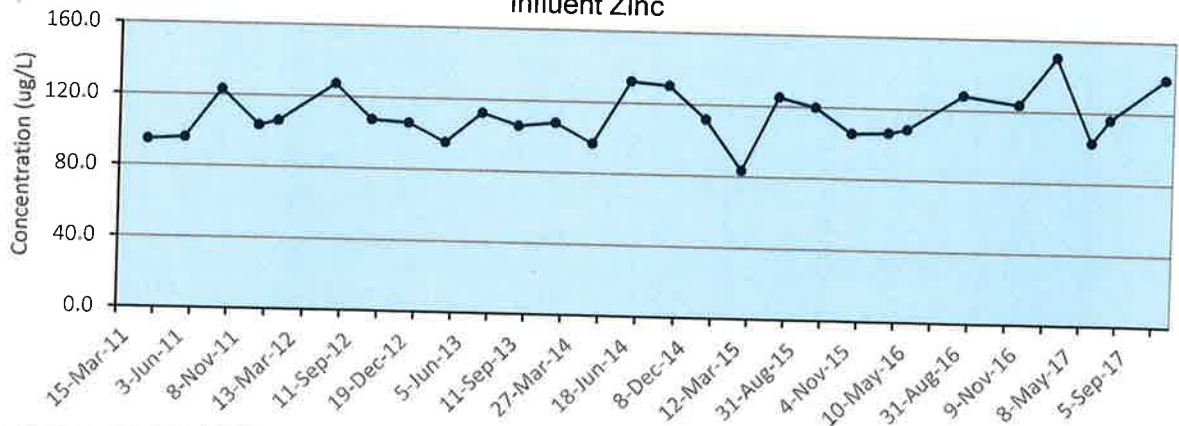


## Influent Zinc

### INFLUENT ZINC

2011 AVG = 104.10 ug/L  
 2012 AVG = 111.63 ug/L  
 2013 AVG = 105.35 ug/L  
 2014 AVG = 117.55 ug/L  
 2015 AVG = 108.43 ug/L  
 2016 AVG = 116.55 ug/L  
 2017 AVG = 127.10 ug/L

GOAL = <381.00 ug/L















Facility Name: DC WATER AND SEWER AUTHORITY			
Facility ID: DCP021199			
Location: <b>SLUDGE</b>			
	<b>Date</b>	<b>Date</b>	<b>Date</b>
	11/29/2017	12/5/2017	12/7/2017
		3.9	4.2
01002	ARSENIC- TOTAL		
00310	BOD- 5-DAY		
01027	CADMIUM- TOTAL	1.9	1.9
01034	CHROMIUM- TOTAL	62.3	62.2
01042	COPPER- TOTAL	414	430
00720	CYANIDE- TOTAL	2.3	
01051	LEAD- TOTAL	21.5	19.5
71900	MERCURY- TOTAL	0.76	0.53
01062	MOLYBDENUM- TOTAL	21.7	21.8
01067	NICKEL- TOTAL	24.2	23.4
00610	NITROGEN- AMMONIA	6260	7720
04166	PCB- TOTAL	<0.10	<0.10
00665	PHOSPHORUS- TOTAL	32400	30900
01147	SELENIUM- TOTAL	4	4
01077	SILVER- TOTAL	6.2	6.2
00530	SOLIDS- TOTAL SUSPENDED (%)	29.8	30
01092	ZINC- TOTAL	718	709

Entry Count 304 Total DTff

## *Influent Priority Pollutant Data*

April 14, 2017

Ms. Elaine Wilson  
DC WASA  
5000 Overlook Avenue, S.W.  
Washington, DC 20032

## Certificate of Analysis

Revised Report - 4/14/2017 9:44:59 AM - See workorder comment section for explanation

Project Name: <b>Wastewater (WW)</b>	Workorder: <b>2212605</b>
Purchase Order: <b>170211</b>	Workorder ID: <b>WW/Influent Annaul 03/02/17</b>

Dear Ms. Wilson:

Enclosed are the analytical results for samples received by the laboratory on Friday, March 3, 2017.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Amy K Borden (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at [www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads](http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads).

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Mr. Ryan Maisano, Mr. Mark Ramirez, Accounts Payable-4th Floor

*This page is included as part of the Analytical Report and must be retained as a permanent record thereof.*

Ms. Amy K Borden  
Project Coordinator

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Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

### SAMPLE SUMMARY

Workorder: 2212605 WW/Influent Annual 03/02/17

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2212605001	17-Influent A-Potomac CS-A	Waste Water	3/2/2017 08:30	3/3/2017 20:40	Collected by Client
2212605002	17-Influent A-Potomac CS-A	Waste Water	3/2/2017 10:30	3/3/2017 20:40	Collected by Client
2212605003	17-Influent B-Potomac SS-A	Waste Water	3/2/2017 08:50	3/3/2017 20:40	Collected by Client
2212605004	17-Influent B-Potomac SS-A	Waste Water	3/2/2017 10:20	3/3/2017 20:40	Collected by Client
2212605005	17-Influent C-Bolling-A	Waste Water	3/2/2017 09:25	3/3/2017 20:40	Collected by Client
2212605006	17-Influent C-Bolling-A	Waste Water	3/2/2017 09:55	3/3/2017 20:40	Collected by Client

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 Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

**SAMPLE SUMMARY**

Workorder: 2212605 WWW/Influent Annaul 03/02/17

**Notes**

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.

**Standard Acronyms/Flags**

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



**PROJECT SUMMARY**

Workorder: 2212605 WW/Influent Annul 03/02/17

**Workorder Comments**

Results reported for Phenols and Oil & Grease are associated with samples that were stored at temperatures exceeding the method criterion of 0-6 degrees C due to a sample storage equipment malfunction over the weekend of March 4, 2017. Additional detailed information will be communicated by your customer service representative.

See attached subcontracted asbestos results from EMSL. SSL 03/30/17

**Sample Comments**

**Lab ID:** 2212605001      **Sample ID:** 17-Influent A-Potomac CS-A      **Sample Type:** SAMPLE

The reporting limits for GCMS volatile analytes were raised due to the dilution of the sample caused by matrix.

**Lab ID:** 2212605003      **Sample ID:** 17-Influent B-Potomac SS-A      **Sample Type:** SAMPLE

The reporting limits for GCMS volatile analytes were raised due to the dilution of the sample caused by matrix.

**Lab ID:** 2212605005      **Sample ID:** 17-Influent C-Bolling-A      **Sample Type:** SAMPLE

The reporting limits for GCMS volatile analytes were raised due to the dilution of the sample caused by matrix.

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Vancouver Waterloo · Winnipeg · Yellowknife    United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York    Mexico: Monterrey

**ANALYTICAL RESULTS**

Workorder: 2212605 WW/Influent Annul 03/02/17

 Lab ID: **2212605001** Date Collected: 3/2/2017 08:30 Matrix: Waste Water  
 Sample ID: **17-Influent A-Potomac CS-A** Date Received: 3/3/2017 20:40

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acrolein	ND		ug/L	50.0	9.5	EPA 624		3/7/17 01:53	TMP	D
Acrylonitrile	ND		ug/L	25.0	6.0	EPA 624		3/7/17 01:53	TMP	D
Benzene	ND		ug/L	5.0	1.2	EPA 624		3/7/17 01:53	TMP	D
Bromodichloromethane	ND		ug/L	5.0	1.4	EPA 624		3/7/17 01:53	TMP	D
Bromoform	ND		ug/L	5.0	2.0	EPA 624		3/7/17 01:53	TMP	D
Bromomethane	ND		ug/L	5.0	2.0	EPA 624		3/7/17 01:53	TMP	D
Carbon Tetrachloride	ND		ug/L	5.0	1.6	EPA 624		3/7/17 01:53	TMP	D
Chlorobenzene	ND		ug/L	5.0	0.95	EPA 624		3/7/17 01:53	TMP	D
Chlorodibromomethane	ND		ug/L	5.0	2.3	EPA 624		3/7/17 01:53	TMP	D
Chloroethane	ND		ug/L	5.0	1.7	EPA 624		3/7/17 01:53	TMP	D
2-Chloroethylvinyl ether	ND		ug/L	10.0	1.9	EPA 624		3/7/17 01:53	TMP	D
Chloroform	ND		ug/L	5.0	1.1	EPA 624		3/7/17 01:53	TMP	D
Chloromethane	ND		ug/L	5.0	1.6	EPA 624		3/7/17 01:53	TMP	D
1,2-Dichlorobenzene	ND		ug/L	5.0	1.9	EPA 624		3/7/17 01:53	TMP	D
1,3-Dichlorobenzene	ND		ug/L	5.0	1.3	EPA 624		3/7/17 01:53	TMP	D
1,4-Dichlorobenzene	ND		ug/L	5.0	1.4	EPA 624		3/7/17 01:53	TMP	D
1,1-Dichloroethane	ND		ug/L	5.0	1.4	EPA 624		3/7/17 01:53	TMP	D
1,2-Dichloroethane	ND		ug/L	5.0	1.6	EPA 624		3/7/17 01:53	TMP	D
1,1-Dichloroethene	ND		ug/L	5.0	1.5	EPA 624		3/7/17 01:53	TMP	D
trans-1,2-Dichloroethene	ND		ug/L	5.0	1.3	EPA 624		3/7/17 01:53	TMP	D
1,2-Dichloropropane	ND		ug/L	5.0	1.2	EPA 624		3/7/17 01:53	TMP	D
cis-1,3-Dichloropropene	ND		ug/L	5.0	1.6	EPA 624		3/7/17 01:53	TMP	D
trans-1,3-Dichloropropene	ND		ug/L	5.0	1.5	EPA 624		3/7/17 01:53	TMP	D
1,3-Dichloropropene, Total	ND		ug/L	10.0	2.4	EPA 624		3/7/17 01:53	TMP	D
Ethylbenzene	ND		ug/L	5.0	1.7	EPA 624		3/7/17 01:53	TMP	D
Methylene Chloride	ND		ug/L	5.0	2.3	EPA 624		3/7/17 01:53	TMP	D
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	1.7	EPA 624		3/7/17 01:53	TMP	D
Tetrachloroethene	4.8J	J	ug/L	5.0	1.8	EPA 624		3/7/17 01:53	TMP	D
Toluene	1.7J	J	ug/L	5.0	1.2	EPA 624		3/7/17 01:53	TMP	D
1,1,1-Trichloroethane	ND		ug/L	5.0	1.1	EPA 624		3/7/17 01:53	TMP	D
1,1,2-Trichloroethane	ND		ug/L	5.0	1.7	EPA 624		3/7/17 01:53	TMP	D
Trichloroethene	ND		ug/L	5.0	1.7	EPA 624		3/7/17 01:53	TMP	D
Trichlorofluoromethane	ND		ug/L	5.0	1.2	EPA 624		3/7/17 01:53	TMP	D
Vinyl Chloride	ND		ug/L	5.0	1.5	EPA 624		3/7/17 01:53	TMP	D
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
1,2-Dichloroethane-d4 (S)	100		%	72 - 142		EPA 624		3/7/17 01:53	TMP	D

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**ANALYTICAL RESULTS**

Workorder: 2212605 WW/Influent Annul 03/02/17

 Lab ID: **2212605001** Date Collected: 3/2/2017 08:30 Matrix: Waste Water  
 Sample ID: **17-Influent A-Potomac CS-A** Date Received: 3/3/2017 20:40

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
4-Bromofluorobenzene (S)	92.1		%	73 - 119		EPA 624		3/7/17 01:53	TMP	D
Dibromofluoromethane (S)	88.8		%	74 - 132		EPA 624		3/7/17 01:53	TMP	D
Toluene-d8 (S)	85.6		%	75 - 133		EPA 624		3/7/17 01:53	TMP	D
<b>WET CHEMISTRY</b>										
Cyanide, Total	ND		mg/L	0.0050	0.0017	EPA 335.4	3/9/17 09:15	CTD	3/9/17 14:40	CTD A
Oil/Grease Hexane Extractable	29.4		mg/L	2.3	0.8	EPA 1664B			3/9/17 05:15	SJH B
Oil/Grease Silica Gel Treated	0.81J	J	mg/L	2.3	0.7	EPA 1664B			3/9/17 05:15	SJH B
Phenolics	0.031		mg/L	0.005	0.002	EPA 420.4	3/10/17 00:00	JLG	3/10/17 07:28	JLG F



 Ms. Amy K Borden  
 Project Coordinator

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**ANALYTICAL RESULTS**

Workorder: 2212605 WW/Influent Annul 03/02/17

 Lab ID: **2212605002** Date Collected: 3/2/2017 10:30 Matrix: Waste Water  
 Sample ID: **17-Influent A-Potomac CS-A** Date Received: 3/3/2017 20:40

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>SEMIVOLATILES</b>										
Acenaphthene	ND		ug/L	1.7	0.17	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
Acenaphthylene	ND		ug/L	1.7	0.21	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
Anthracene	ND		ug/L	1.7	0.17	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
Benzidine	ND		ug/L	8.9	3.5	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
Benzo(a)anthracene	ND		ug/L	1.7	0.15	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
Benzo(a)pyrene	ND		ug/L	1.7	0.25	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
Benzo(b)fluoranthene	0.14J	J	ug/L	1.7	0.12	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
Benzo(g,h,i)perylene	ND		ug/L	1.7	0.25	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
Benzo(k)fluoranthene	ND		ug/L	1.7	0.21	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
4-Bromophenyl-phenylether	ND		ug/L	3.4	0.19	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
Butylbenzylphthalate	ND		ug/L	3.4	0.12	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
4-Chloro-3-methylphenol	ND		ug/L	3.4	0.21	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
bis(2-Chloroethoxy)methane	ND		ug/L	3.4	0.23	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
bis(2-Chloroethyl)ether	ND		ug/L	3.4	0.19	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
bis(2-Chloroisopropyl)ether	ND		ug/L	3.4	0.31	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
2-Chloronaphthalene	ND		ug/L	3.4	0.20	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
2-Chlorophenol	ND		ug/L	3.4	0.37	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
4-Chlorophenyl-phenylether	ND		ug/L	3.4	0.16	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
Chrysene	ND		ug/L	1.7	0.13	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
Di-n-Butylphthalate	2.1J	J,3	ug/L	3.4	0.16	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
Di-n-Octylphthalate	ND		ug/L	3.4	0.11	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
Dibenzo(a,h)anthracene	ND		ug/L	1.7	0.23	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
3,3-Dichlorobenzidine	ND		ug/L	3.4	0.54	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
2,4-Dichlorophenol	ND		ug/L	3.4	0.36	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
Diethylphthalate	3.2J	J,2	ug/L	3.4	0.20	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
2,4-Dimethylphenol	ND		ug/L	3.4	0.23	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
Dimethylphthalate	ND		ug/L	3.4	0.16	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
2,4-Dinitrophenol	ND		ug/L	6.7	2.0	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
2,4-Dinitrotoluene	ND		ug/L	3.4	0.13	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
2,6-Dinitrotoluene	ND		ug/L	3.4	0.23	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
1,2-Diphenylhydrazine	ND		ug/L	3.4	0.29	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
bis(2-Ethylhexyl)phthalate	11.7		ug/L	3.4	0.25	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
Fluoranthene	ND		ug/L	1.7	0.19	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
Fluorene	ND		ug/L	1.7	0.22	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
Hexachlorobenzene	ND		ug/L	3.4	0.26	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
Hexachlorobutadiene	ND		ug/L	3.4	0.21	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
Hexachlorocyclopentadiene	ND		ug/L	3.4	0.19	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B

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**ANALYTICAL RESULTS**

Workorder: 2212605 WW/Influent Annul 03/02/17

 Lab ID: **2212605002** Date Collected: 3/2/2017 10:30 Matrix: Waste Water  
 Sample ID: **17-Influent A-Potomac CS-A** Date Received: 3/3/2017 20:40

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Hexachloroethane	ND		ug/L	3.4	0.34	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
Indeno(1,2,3-cd)pyrene	0.37J	J	ug/L	1.7	0.11	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
Isophorone	ND		ug/L	3.4	0.17	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
2-Methyl-4,6-dinitrophenol	ND		ug/L	6.7	0.37	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
Naphthalene	0.28J	J	ug/L	1.7	0.13	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
Nitrobenzene	ND		ug/L	3.4	0.31	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
2-Nitrophenol	ND		ug/L	3.4	0.50	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
4-Nitrophenol	ND		ug/L	3.4	1.2	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
N-Nitrosodimethylamine	ND		ug/L	3.4	0.72	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
N-Nitroso-di-n-propylamine	ND		ug/L	3.4	0.27	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
N-Nitrosodiphenylamine	ND		ug/L	3.4	0.20	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
Pentachlorophenol	ND		ug/L	6.7	1.2	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
Phenanthrene	ND		ug/L	1.7	0.15	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
Phenol	9.0	1	ug/L	8.9	0.26	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
Pyrene	0.22J	J	ug/L	1.7	0.18	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
1,2,4-Trichlorobenzene	ND		ug/L	3.4	0.15	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
2,4,6-Trichlorophenol	ND		ug/L	3.4	0.64	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF B
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr
2,4,6-Tribromophenol (S)	107		%	47 - 128	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF	B
2-Fluorobiphenyl (S)	90		%	52 - 118	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF	B
2-Fluorophenol (S)	57.6		%	20 - 87	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF	B
Nitrobenzene-d5 (S)	91.2		%	27 - 139	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF	B
Phenol-d5 (S)	40.6		%	10 - 81	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF	B
Terphenyl-d14 (S)	104		%	46 - 133	EPA 625	3/8/17 08:45	JTH	3/9/17 09:57	DHF	B
Pesticides and PCBs										
Aldrin	ND		ug/L	0.022	0.0054	EPA 608	3/6/17 17:25	ACD	3/8/17 00:00	RWS D
alpha-BHC	ND		ug/L	0.022	0.0022	EPA 608	3/6/17 17:25	ACD	3/8/17 00:00	RWS D
beta-BHC	ND		ug/L	0.022	0.0087	EPA 608	3/6/17 17:25	ACD	3/8/17 00:00	RWS D
delta-BHC	ND		ug/L	0.022	0.0033	EPA 608	3/6/17 17:25	ACD	3/8/17 00:00	RWS D
gamma-BHC	ND		ug/L	0.022	0.0033	EPA 608	3/6/17 17:25	ACD	3/8/17 00:00	RWS D
Chlordane	ND		ug/L	0.54	0.038	EPA 608	3/6/17 17:25	ACD	3/8/17 00:00	RWS D
4,4'-DDD	ND		ug/L	0.022	0.0076	EPA 608	3/6/17 17:25	ACD	3/8/17 00:00	RWS D
4,4'-DDE	ND		ug/L	0.022	0.0076	EPA 608	3/6/17 17:25	ACD	3/8/17 00:00	RWS D
4,4'-DDT	ND	5	ug/L	0.022	0.0065	EPA 608	3/6/17 17:25	ACD	3/8/17 00:00	RWS D
Dieldrin	ND		ug/L	0.022	0.0033	EPA 608	3/6/17 17:25	ACD	3/8/17 00:00	RWS D
Endosulfan I	ND		ug/L	0.022	0.0033	EPA 608	3/6/17 17:25	ACD	3/8/17 00:00	RWS D
Endosulfan II	ND		ug/L	0.022	0.0065	EPA 608	3/6/17 17:25	ACD	3/8/17 00:00	RWS D

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**ANALYTICAL RESULTS**

Workorder: 2212605 WW/Influent Annul 03/02/17

 Lab ID: **2212605002** Date Collected: 3/2/2017 10:30 Matrix: Waste Water  
 Sample ID: **17-Influent A-Potomac CS-A** Date Received: 3/3/2017 20:40

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Endosulfan Sulfate	ND		ug/L	0.022	0.0043	EPA 608	3/6/17 17:25 ACD	3/8/17 00:00	RWS	D	
Endrin	ND		ug/L	0.022	0.0087	EPA 608	3/6/17 17:25 ACD	3/8/17 00:00	RWS	D	
Endrin Aldehyde	ND		ug/L	0.022	0.011	EPA 608	3/6/17 17:25 ACD	3/8/17 00:00	RWS	D	
Heptachlor	ND		ug/L	0.022	0.0033	EPA 608	3/6/17 17:25 ACD	3/8/17 00:00	RWS	D	
Heptachlor Epoxide	ND		ug/L	0.022	0.0043	EPA 608	3/6/17 17:25 ACD	3/8/17 00:00	RWS	D	
Mirex	ND	4	ug/L	0.022	0.0043	EPA 608	3/6/17 17:25 ACD	3/8/17 00:00	RWS	D	
Total Polychlorinated Biphenyl	ND		ug/L	0.54	0.54	EPA 608	3/6/17 17:25 ACD	3/8/17 00:00	RWS	D	
Toxaphene	ND		ug/L	1.1	0.21	EPA 608	3/6/17 17:25 ACD	3/8/17 00:00	RWS	D	
Aroclor-1016	ND		ug/L	0.54	0.35	EPA 608	3/6/17 17:25 ACD	3/8/17 00:00	RWS	D	
Aroclor-1221	ND		ug/L	0.54	0.36	EPA 608	3/6/17 17:25 ACD	3/8/17 00:00	RWS	D	
Aroclor-1232	ND		ug/L	0.54	0.25	EPA 608	3/6/17 17:25 ACD	3/8/17 00:00	RWS	D	
Aroclor-1242	ND		ug/L	0.54	0.26	EPA 608	3/6/17 17:25 ACD	3/8/17 00:00	RWS	D	
Aroclor-1248	ND		ug/L	0.54	0.16	EPA 608	3/6/17 17:25 ACD	3/8/17 00:00	RWS	D	
Aroclor-1254	ND		ug/L	0.54	0.15	EPA 608	3/6/17 17:25 ACD	3/8/17 00:00	RWS	D	
Aroclor-1260	ND		ug/L	0.54	0.28	EPA 608	3/6/17 17:25 ACD	3/8/17 00:00	RWS	D	
<b>Surrogate Recoveries</b>	<b>Results</b>	<b>Flag</b>	<b>Units</b>	<b>Limits</b>		<b>Method</b>	<b>Prepared</b>	<b>By</b>	<b>Analyzed</b>	<b>By</b>	<b>Cntr</b>
Decachlorobiphenyls (S)	32.7		%	30 - 150		EPA 608	3/6/17 17:25 ACD	3/8/17 00:00	RWS	D	
Tetrachloro-m-xylene (S)	44.3		%	36 - 112		EPA 608	3/6/17 17:25 ACD	3/8/17 00:00	RWS	D	
<b>WET CHEMISTRY</b>											
Chloride	107		mg/L	5.0	0.58	EPA 300.0		3/7/17 09:23	CHW		
<b>METALS</b>											
Antimony, Total	0.00068J	J	mg/L	0.0010	0.00010	EPA 200.8	3/6/17 00:00 ZMC	3/7/17 03:49	ZMC	A1	
Arsenic, Total	0.0011J	J	mg/L	0.0015	0.00032	EPA 200.8	3/6/17 00:00 ZMC	3/7/17 03:49	ZMC	A1	
Beryllium, Total	0.000060 J	J	mg/L	0.00050	0.00004 0	EPA 200.8	3/6/17 00:00 ZMC	3/7/17 12:27	MO	A1	
Cadmium, Total	0.00023J	J	mg/L	0.00050	0.00012	EPA 200.8	3/6/17 00:00 ZMC	3/7/17 03:49	ZMC	A1	
Chromium, Total	0.0021		mg/L	0.0010	0.00029	EPA 200.8	3/6/17 00:00 ZMC	3/7/17 03:49	ZMC	A1	
Copper, Total	0.049		mg/L	0.0025	0.00038	EPA 200.8	3/6/17 00:00 ZMC	3/7/17 03:49	ZMC	A1	
Lead, Total	0.0058		mg/L	0.0010	0.00011	EPA 200.8	3/6/17 00:00 ZMC	3/7/17 03:49	ZMC	A1	
Manganese, Total	0.12		mg/L	0.0025	0.00011	EPA 200.8	3/6/17 00:00 ZMC	3/7/17 03:49	ZMC		
Molybdenum, Total	0.0062		mg/L	0.0010	0.00004 0	EPA 200.8	3/6/17 00:00 ZMC	3/7/17 03:49	ZMC	A1	
Nickel, Total	0.0053		mg/L	0.0025	0.00012	EPA 200.8	3/6/17 00:00 ZMC	3/7/17 03:49	ZMC	A1	
Selenium, Total	0.00066J	J	mg/L	0.0020	0.00015	EPA 200.8	3/6/17 00:00 ZMC	3/7/17 03:49	ZMC	A1	
Silver, Total	0.0023		mg/L	0.0010	0.00003 0	EPA 200.8	3/6/17 00:00 ZMC	3/7/17 03:49	ZMC	A1	
Thallium, Total	ND		mg/L	0.00050	0.00003 0	EPA 200.8	3/6/17 00:00 ZMC	3/7/17 03:49	ZMC	A1	

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**ANALYTICAL RESULTS**

Workorder: 2212605 WW/Influent Annaul 03/02/17

 Lab ID: **2212605002** Date Collected: 3/2/2017 10:30 Matrix: Waste Water  
 Sample ID: **17-Influent A-Potomac CS-A** Date Received: 3/3/2017 20:40

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Zinc, Total	0.13		mg/L	0.0025	0.00057	EPA 200.8	3/6/17 00:00 ZMC	3/7/17 03:49	ZMC	A1
<b>Sub'd-EMSL Labs</b>										
Asbestos	See Attached					Subcontract		3/13/17 00:00	SUB	G



 Ms. Amy K Borden  
 Project Coordinator

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**ANALYTICAL RESULTS**

Workorder: 2212605 WWW/Influent Annul 03/02/17

 Lab ID: **2212605003** Date Collected: 3/2/2017 08:50 Matrix: Waste Water  
 Sample ID: **17-Influent B-Potomac SS-A** Date Received: 3/3/2017 20:40

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acrolein	ND		ug/L	50.0	9.5	EPA 624		3/7/17 02:12	TMP	D
Acrylonitrile	ND		ug/L	25.0	6.0	EPA 624		3/7/17 02:12	TMP	D
Benzene	ND		ug/L	5.0	1.2	EPA 624		3/7/17 02:12	TMP	D
Bromodichloromethane	ND		ug/L	5.0	1.4	EPA 624		3/7/17 02:12	TMP	D
Bromoform	ND		ug/L	5.0	2.0	EPA 624		3/7/17 02:12	TMP	D
Bromomethane	ND		ug/L	5.0	2.0	EPA 624		3/7/17 02:12	TMP	D
Carbon Tetrachloride	ND		ug/L	5.0	1.6	EPA 624		3/7/17 02:12	TMP	D
Chlorobenzene	ND		ug/L	5.0	0.95	EPA 624		3/7/17 02:12	TMP	D
Chlorodibromomethane	ND		ug/L	5.0	2.3	EPA 624		3/7/17 02:12	TMP	D
Chloroethane	ND		ug/L	5.0	1.7	EPA 624		3/7/17 02:12	TMP	D
2-Chloroethylvinyl ether	ND		ug/L	10.0	1.9	EPA 624		3/7/17 02:12	TMP	D
Chloroform	ND		ug/L	5.0	1.1	EPA 624		3/7/17 02:12	TMP	D
Chloromethane	ND		ug/L	5.0	1.6	EPA 624		3/7/17 02:12	TMP	D
1,2-Dichlorobenzene	ND		ug/L	5.0	1.9	EPA 624		3/7/17 02:12	TMP	D
1,3-Dichlorobenzene	ND		ug/L	5.0	1.3	EPA 624		3/7/17 02:12	TMP	D
1,4-Dichlorobenzene	ND		ug/L	5.0	1.4	EPA 624		3/7/17 02:12	TMP	D
1,1-Dichloroethane	ND		ug/L	5.0	1.4	EPA 624		3/7/17 02:12	TMP	D
1,2-Dichloroethane	ND		ug/L	5.0	1.6	EPA 624		3/7/17 02:12	TMP	D
1,1-Dichloroethene	ND		ug/L	5.0	1.5	EPA 624		3/7/17 02:12	TMP	D
trans-1,2-Dichloroethene	ND		ug/L	5.0	1.3	EPA 624		3/7/17 02:12	TMP	D
1,2-Dichloropropane	ND		ug/L	5.0	1.2	EPA 624		3/7/17 02:12	TMP	D
cis-1,3-Dichloropropene	ND		ug/L	5.0	1.6	EPA 624		3/7/17 02:12	TMP	D
trans-1,3-Dichloropropene	ND		ug/L	5.0	1.5	EPA 624		3/7/17 02:12	TMP	D
1,3-Dichloropropene, Total	ND		ug/L	10.0	2.4	EPA 624		3/7/17 02:12	TMP	D
Ethylbenzene	ND		ug/L	5.0	1.7	EPA 624		3/7/17 02:12	TMP	D
Methylene Chloride	ND		ug/L	5.0	2.3	EPA 624		3/7/17 02:12	TMP	D
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	1.7	EPA 624		3/7/17 02:12	TMP	D
Tetrachloroethene	4.0J	J	ug/L	5.0	1.8	EPA 624		3/7/17 02:12	TMP	D
Toluene	1.7J	J	ug/L	5.0	1.2	EPA 624		3/7/17 02:12	TMP	D
1,1,1-Trichloroethane	ND		ug/L	5.0	1.1	EPA 624		3/7/17 02:12	TMP	D
1,1,2-Trichloroethane	ND		ug/L	5.0	1.7	EPA 624		3/7/17 02:12	TMP	D
Trichloroethene	ND		ug/L	5.0	1.7	EPA 624		3/7/17 02:12	TMP	D
Trichlorofluoromethane	ND		ug/L	5.0	1.2	EPA 624		3/7/17 02:12	TMP	D
Vinyl Chloride	ND		ug/L	5.0	1.5	EPA 624		3/7/17 02:12	TMP	D
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
1,2-Dichloroethane-d4 (S)	102		%	72 - 142		EPA 624		3/7/17 02:12	TMP	D

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**ANALYTICAL RESULTS**

Workorder: 2212605 WWW/Influent Annaul 03/02/17

 Lab ID: **2212605003** Date Collected: 3/2/2017 08:50 Matrix: Waste Water  
 Sample ID: **17-Influent B-Potomac SS-A** Date Received: 3/3/2017 20:40

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
4-Bromofluorobenzene (S)	95		%	73 - 119		EPA 624		3/7/17 02:12	TMP	D
Dibromofluoromethane (S)	90.2		%	74 - 132		EPA 624		3/7/17 02:12	TMP	D
Toluene-d8 (S)	87.9		%	75 - 133		EPA 624		3/7/17 02:12	TMP	D
<b>WET CHEMISTRY</b>										
Cyanide, Total	0.0020J	J	mg/L	0.0050	0.0017	EPA 335.4	3/9/17 09:15	CTD	3/9/17 14:40	CTD A
Oil/Grease Hexane Extractable	28.2		mg/L	2.4	0.8	EPA 1664B			3/9/17 05:15	SJH B
Oil/Grease Silica Gel Treated	ND		mg/L	2.4	0.7	EPA 1664B			3/9/17 05:15	SJH B
Phenolics	0.034		mg/L	0.005	0.002	EPA 420.4	3/10/17 00:00	JLG	3/10/17 07:28	JLG F



 Ms. Amy K Borden  
 Project Coordinator

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**ANALYTICAL RESULTS**

Workorder: 2212605 VVV/Influent Annul 03/02/17

 Lab ID: **2212605004** Date Collected: 3/2/2017 10:20 Matrix: Waste Water  
 Sample ID: **17-Influent B-Potomac SS-A** Date Received: 3/3/2017 20:40

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>SEMIVOLATILES</b>										
Acenaphthene	ND		ug/L	1.6	0.16	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
Acenaphthylene	ND		ug/L	1.6	0.21	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
Anthracene	ND		ug/L	1.6	0.16	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
Benidine	ND		ug/L	8.7	3.4	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
Benzo(a)anthracene	ND		ug/L	1.6	0.14	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
Benzo(a)pyrene	ND		ug/L	1.6	0.24	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
Benzo(b)fluoranthene	ND		ug/L	1.6	0.12	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
Benzo(g,h,i)perylene	ND		ug/L	1.6	0.24	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
Benzo(k)fluoranthene	ND		ug/L	1.6	0.21	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
4-Bromophenyl-phenylether	ND		ug/L	3.3	0.18	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
Butylbenzylphthalate	ND		ug/L	3.3	0.12	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
4-Chloro-3-methylphenol	ND		ug/L	3.3	0.21	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
bis(2-Chloroethoxy)methane	ND		ug/L	3.3	0.23	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
bis(2-Chloroethyl)ether	ND		ug/L	3.3	0.18	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
bis(2-Chloroisopropyl)ether	ND		ug/L	3.3	0.30	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
2-Chloronaphthalene	ND		ug/L	3.3	0.20	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
2-Chlorophenol	ND		ug/L	3.3	0.36	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
4-Chlorophenyl-phenylether	ND		ug/L	3.3	0.15	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
Chrysene	ND		ug/L	1.6	0.13	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
Di-n-Butylphthalate	ND		ug/L	3.3	0.15	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
Di-n-Octylphthalate	ND		ug/L	3.3	0.11	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
Dibenzo(a,h)anthracene	ND		ug/L	1.6	0.23	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
3,3-Dichlorobenzidine	ND		ug/L	3.3	0.52	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
2,4-Dichlorophenol	ND		ug/L	3.3	0.35	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
Diethylphthalate	3.2J	J,1	ug/L	3.3	0.20	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
2,4-Dimethylphenol	ND		ug/L	3.3	0.23	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
Dimethylphthalate	ND		ug/L	3.3	0.15	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
2,4-Dinitrophenol	ND		ug/L	6.5	2.0	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
2,4-Dinitrotoluene	ND		ug/L	3.3	0.13	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
2,6-Dinitrotoluene	ND		ug/L	3.3	0.23	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
1,2-Diphenylhydrazine	ND		ug/L	3.3	0.28	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
bis(2-Ethylhexyl)phthalate	9.9		ug/L	3.3	0.24	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
Fluoranthene	ND		ug/L	1.6	0.18	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
Fluorene	ND		ug/L	1.6	0.22	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
Hexachlorobenzene	ND		ug/L	3.3	0.25	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
Hexachlorobutadiene	ND		ug/L	3.3	0.21	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B
Hexachlorocyclopentadiene	ND		ug/L	3.3	0.18	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B

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**ANALYTICAL RESULTS**

Workorder: 2212605 WW/Influent Annul 03/02/17

 Lab ID: **2212605004** Date Collected: 3/2/2017 10:20 Matrix: Waste Water  
 Sample ID: **17-Influent B-Potomac SS-A** Date Received: 3/3/2017 20:40

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Hexachloroethane	ND		ug/L	3.3	0.33	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B	
Indeno(1,2,3-cd)pyrene	ND		ug/L	1.6	0.11	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B	
Isophorone	ND		ug/L	3.3	0.16	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B	
2-Methyl-4,6-dinitrophenol	ND		ug/L	6.5	0.36	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B	
Naphthalene	ND		ug/L	1.6	0.13	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B	
Nitrobenzene	ND		ug/L	3.3	0.30	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B	
2-Nitrophenol	ND		ug/L	3.3	0.49	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B	
4-Nitrophenol	ND		ug/L	3.3	1.1	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B	
N-Nitrosodimethylamine	ND		ug/L	3.3	0.70	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B	
N-Nitroso-di-n-propylamine	ND		ug/L	3.3	0.26	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B	
N-Nitrosodiphenylamine	ND		ug/L	3.3	0.20	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B	
Pentachlorophenol	ND		ug/L	6.5	1.2	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B	
Phenanthrene	ND		ug/L	1.6	0.14	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B	
Phenol	10.3		ug/L	8.7	0.25	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B	
Pyrene	ND		ug/L	1.6	0.17	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B	
1,2,4-Trichlorobenzene	ND		ug/L	3.3	0.14	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B	
2,4,6-Trichlorophenol	ND		ug/L	3.3	0.62	EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
2,4,6-Tribromophenol (S)	105		%	47 - 128		EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B	
2-Fluorobiphenyl (S)	83.1		%	52 - 118		EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B	
2-Fluorophenol (S)	58.1		%	20 - 87		EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B	
Nitrobenzene-d5 (S)	89.9		%	27 - 139		EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B	
Phenol-d5 (S)	39.2		%	10 - 81		EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B	
Terphenyl-d14 (S)	93.3		%	46 - 133		EPA 625	3/8/17 08:45	JTH	3/9/17 10:48	DHF B	
Pesticides and PCBs											
Aldrin	ND		ug/L	0.022	0.0054	EPA 608	3/6/17 17:25	ACD	3/8/17 00:22	RWS	D
alpha-BHC	ND		ug/L	0.022	0.0022	EPA 608	3/6/17 17:25	ACD	3/8/17 00:22	RWS	D
beta-BHC	ND		ug/L	0.022	0.0086	EPA 608	3/6/17 17:25	ACD	3/8/17 00:22	RWS	D
delta-BHC	ND		ug/L	0.022	0.0032	EPA 608	3/6/17 17:25	ACD	3/8/17 00:22	RWS	D
gamma-BHC	ND		ug/L	0.022	0.0032	EPA 608	3/6/17 17:25	ACD	3/8/17 00:22	RWS	D
Chlordane	ND		ug/L	0.54	0.038	EPA 608	3/6/17 17:25	ACD	3/8/17 00:22	RWS	D
4,4'-DDD	ND		ug/L	0.022	0.0075	EPA 608	3/6/17 17:25	ACD	3/8/17 00:22	RWS	D
4,4'-DDE	ND		ug/L	0.022	0.0075	EPA 608	3/6/17 17:25	ACD	3/8/17 00:22	RWS	D
4,4'-DDT	ND	3	ug/L	0.022	0.0065	EPA 608	3/6/17 17:25	ACD	3/8/17 00:22	RWS	D
Dieldrin	ND		ug/L	0.022	0.0032	EPA 608	3/6/17 17:25	ACD	3/8/17 00:22	RWS	D
Endosulfan I	ND		ug/L	0.022	0.0032	EPA 608	3/6/17 17:25	ACD	3/8/17 00:22	RWS	D
Endosulfan II	ND		ug/L	0.022	0.0065	EPA 608	3/6/17 17:25	ACD	3/8/17 00:22	RWS	D

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**ANALYTICAL RESULTS**

Workorder: 2212605 WW/Influent Annul 03/02/17

 Lab ID: **2212605004** Date Collected: 3/2/2017 10:20 Matrix: Waste Water  
 Sample ID: **17-Influent B-Potomac SS-A** Date Received: 3/3/2017 20:40

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Endosulfan Sulfate	ND		ug/L	0.022	0.0043	EPA 608	3/6/17 17:25	ACD	3/8/17 00:22	RWS D	
Endrin	ND		ug/L	0.022	0.0086	EPA 608	3/6/17 17:25	ACD	3/8/17 00:22	RWS D	
Endrin Aldehyde	ND		ug/L	0.022	0.011	EPA 608	3/6/17 17:25	ACD	3/8/17 00:22	RWS D	
Heptachlor	ND		ug/L	0.022	0.0032	EPA 608	3/6/17 17:25	ACD	3/8/17 00:22	RWS D	
Heptachlor Epoxide	ND		ug/L	0.022	0.0043	EPA 608	3/6/17 17:25	ACD	3/8/17 00:22	RWS D	
Mirex	ND	2	ug/L	0.022	0.0043	EPA 608	3/6/17 17:25	ACD	3/8/17 00:22	RWS D	
Total Polychlorinated Biphenyl	ND		ug/L	0.54	0.54	EPA 608	3/6/17 17:25	ACD	3/8/17 00:22	RWS D	
Toxaphene	ND		ug/L	1.1	0.20	EPA 608	3/6/17 17:25	ACD	3/8/17 00:22	RWS D	
Aroclor-1016	ND		ug/L	0.54	0.34	EPA 608	3/6/17 17:25	ACD	3/8/17 00:22	RWS D	
Aroclor-1221	ND		ug/L	0.54	0.35	EPA 608	3/6/17 17:25	ACD	3/8/17 00:22	RWS D	
Aroclor-1232	ND		ug/L	0.54	0.25	EPA 608	3/6/17 17:25	ACD	3/8/17 00:22	RWS D	
Aroclor-1242	ND		ug/L	0.54	0.26	EPA 608	3/6/17 17:25	ACD	3/8/17 00:22	RWS D	
Aroclor-1248	ND		ug/L	0.54	0.16	EPA 608	3/6/17 17:25	ACD	3/8/17 00:22	RWS D	
Aroclor-1254	ND		ug/L	0.54	0.15	EPA 608	3/6/17 17:25	ACD	3/8/17 00:22	RWS D	
Aroclor-1260	ND		ug/L	0.54	0.28	EPA 608	3/6/17 17:25	ACD	3/8/17 00:22	RWS D	
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Decachlorobiphenyls (S)	52.6		%	30 - 150		EPA 608	3/6/17 17:25	ACD	3/8/17 00:22	RWS	D
Tetrachloro-m-xylene (S)	49.7		%	36 - 112		EPA 608	3/6/17 17:25	ACD	3/8/17 00:22	RWS	D
<b>WET CHEMISTRY</b>											
Chloride	111		mg/L	5.0	0.58	EPA 300.0			3/7/17 09:36	CHW	
<b>METALS</b>											
Antimony, Total	0.00084J	J	mg/L	0.0010	0.00010	EPA 200.8	3/6/17 00:00	ZMC	3/7/17 03:53	ZMC	A1
Arsenic, Total	0.0014J	J	mg/L	0.0015	0.00032	EPA 200.8	3/6/17 00:00	ZMC	3/7/17 03:53	ZMC	A1
Beryllium, Total	0.000099J	J	mg/L	0.00050	0.00004	EPA 200.8	3/6/17 00:00	ZMC	3/7/17 12:31	MO	A1
Cadmium, Total	0.00037J	J	mg/L	0.00050	0.00012	EPA 200.8	3/6/17 00:00	ZMC	3/7/17 03:53	ZMC	A1
Chromium, Total	0.012		mg/L	0.0010	0.00029	EPA 200.8	3/6/17 00:00	ZMC	3/7/17 03:53	ZMC	A1
Copper, Total	0.096		mg/L	0.0025	0.00038	EPA 200.8	3/6/17 00:00	ZMC	3/7/17 03:53	ZMC	A1
Lead, Total	0.0080		mg/L	0.0010	0.00011	EPA 200.8	3/6/17 00:00	ZMC	3/7/17 03:53	ZMC	A1
Manganese, Total	0.16		mg/L	0.0025	0.00011	EPA 200.8	3/6/17 00:00	ZMC	3/7/17 03:53	ZMC	
Molybdenum, Total	0.0080		mg/L	0.0010	0.00004	EPA 200.8	3/6/17 00:00	ZMC	3/7/17 03:53	ZMC	A1
Nickel, Total	0.0083		mg/L	0.0025	0.00012	EPA 200.8	3/6/17 00:00	ZMC	3/7/17 03:53	ZMC	A1
Selenium, Total	0.00081J	J	mg/L	0.0020	0.00015	EPA 200.8	3/6/17 00:00	ZMC	3/7/17 03:53	ZMC	A1
Silver, Total	0.0036		mg/L	0.0010	0.00003	EPA 200.8	3/6/17 00:00	ZMC	3/7/17 03:53	ZMC	A1
Thallium, Total	ND		mg/L	0.00050	0.00003	EPA 200.8	3/6/17 00:00	ZMC	3/7/17 03:53	ZMC	A1

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**ANALYTICAL RESULTS**

Workorder: 2212605 WWW/Influent Annaul 03/02/17

 Lab ID: **2212605004** Date Collected: 3/2/2017 10:20 Matrix: Waste Water  
 Sample ID: **17-Influent B-Potomac SS-A** Date Received: 3/3/2017 20:40

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Zinc, Total	0.25		mg/L	0.0025	0.00057	EPA 200.8	3/6/17 00:00 ZMC	3/7/17 03:53	ZMC	A1
<b>Sub'd-EMSL Labs</b>										
Asbestos	See Attached					Subcontract		3/13/17 00:00	SUB	G



 Ms. Amy K Borden  
 Project Coordinator

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**ANALYTICAL RESULTS**

Workorder: 2212605 WW/Influent Annul 03/02/17

 Lab ID: **2212605005** Date Collected: 3/2/2017 09:25 Matrix: Waste Water  
 Sample ID: **17-Influent C-Bolling-A** Date Received: 3/3/2017 20:40

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acrolein	ND		ug/L	50.0	9.5	EPA 624		3/7/17 02:30	TMP	D
Acrylonitrile	ND		ug/L	25.0	6.0	EPA 624		3/7/17 02:30	TMP	D
Benzene	ND		ug/L	5.0	1.2	EPA 624		3/7/17 02:30	TMP	D
Bromodichloromethane	ND		ug/L	5.0	1.4	EPA 624		3/7/17 02:30	TMP	D
Bromoform	ND		ug/L	5.0	2.0	EPA 624		3/7/17 02:30	TMP	D
Bromomethane	ND		ug/L	5.0	2.0	EPA 624		3/7/17 02:30	TMP	D
Carbon Tetrachloride	ND		ug/L	5.0	1.6	EPA 624		3/7/17 02:30	TMP	D
Chlorobenzene	ND		ug/L	5.0	0.95	EPA 624		3/7/17 02:30	TMP	D
Chlorodibromomethane	ND		ug/L	5.0	2.3	EPA 624		3/7/17 02:30	TMP	D
Chloroethane	ND		ug/L	5.0	1.7	EPA 624		3/7/17 02:30	TMP	D
2-Chloroethylvinyl ether	ND		ug/L	10.0	1.9	EPA 624		3/7/17 02:30	TMP	D
Chloroform	ND		ug/L	5.0	1.1	EPA 624		3/7/17 02:30	TMP	D
Chloromethane	ND		ug/L	5.0	1.6	EPA 624		3/7/17 02:30	TMP	D
1,2-Dichlorobenzene	ND		ug/L	5.0	1.9	EPA 624		3/7/17 02:30	TMP	D
1,3-Dichlorobenzene	ND		ug/L	5.0	1.3	EPA 624		3/7/17 02:30	TMP	D
1,4-Dichlorobenzene	ND		ug/L	5.0	1.4	EPA 624		3/7/17 02:30	TMP	D
1,1-Dichloroethane	ND		ug/L	5.0	1.4	EPA 624		3/7/17 02:30	TMP	D
1,2-Dichloroethane	ND		ug/L	5.0	1.6	EPA 624		3/7/17 02:30	TMP	D
1,1-Dichloroethene	ND		ug/L	5.0	1.5	EPA 624		3/7/17 02:30	TMP	D
trans-1,2-Dichloroethene	ND		ug/L	5.0	1.3	EPA 624		3/7/17 02:30	TMP	D
1,2-Dichloropropane	ND		ug/L	5.0	1.2	EPA 624		3/7/17 02:30	TMP	D
cis-1,3-Dichloropropene	ND		ug/L	5.0	1.6	EPA 624		3/7/17 02:30	TMP	D
trans-1,3-Dichloropropene	ND		ug/L	5.0	1.5	EPA 624		3/7/17 02:30	TMP	D
1,3-Dichloropropene, Total	ND		ug/L	10.0	2.4	EPA 624		3/7/17 02:30	TMP	D
Ethylbenzene	ND		ug/L	5.0	1.7	EPA 624		3/7/17 02:30	TMP	D
Methylene Chloride	ND		ug/L	5.0	2.3	EPA 624		3/7/17 02:30	TMP	D
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	1.7	EPA 624		3/7/17 02:30	TMP	D
Tetrachloroethene	6.1		ug/L	5.0	1.8	EPA 624		3/7/17 02:30	TMP	D
Toluene	2.2J	J	ug/L	5.0	1.2	EPA 624		3/7/17 02:30	TMP	D
1,1,1-Trichloroethane	ND		ug/L	5.0	1.1	EPA 624		3/7/17 02:30	TMP	D
1,1,2-Trichloroethane	ND		ug/L	5.0	1.7	EPA 624		3/7/17 02:30	TMP	D
Trichloroethene	ND		ug/L	5.0	1.7	EPA 624		3/7/17 02:30	TMP	D
Trichlorofluoromethane	ND		ug/L	5.0	1.2	EPA 624		3/7/17 02:30	TMP	D
Vinyl Chloride	ND		ug/L	5.0	1.5	EPA 624		3/7/17 02:30	TMP	D
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
1,2-Dichloroethane-d4 (S)	98.4		%	72 - 142		EPA 624		3/7/17 02:30	TMP	D

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**ANALYTICAL RESULTS**

Workorder: 2212605 WW/Influent Annul 03/02/17

 Lab ID: **2212605005** Date Collected: 3/2/2017 09:25 Matrix: Waste Water  
 Sample ID: **17-Influent C-Bolling-A** Date Received: 3/3/2017 20:40

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
4-Bromofluorobenzene (S)	93.7		%	73 - 119		EPA 624		3/7/17 02:30	TMP	D	
Dibromofluoromethane (S)	88.1		%	74 - 132		EPA 624		3/7/17 02:30	TMP	D	
Toluene-d8 (S)	85		%	75 - 133		EPA 624		3/7/17 02:30	TMP	D	
<b>WET CHEMISTRY</b>											
Cyanide, Total	0.0020J	J	mg/L	0.0050	0.0017	EPA 335.4	3/9/17 09:15	CTD	3/9/17 14:40	CTD	A
Oil/Grease Hexane Extractable	20.8		mg/L	2.3	0.7	EPA 1664B		3/9/17 05:15	SJH	B	
Oil/Grease Silica Gel Treated	ND		mg/L	2.3	0.7	EPA 1664B		3/9/17 05:15	SJH	B	
Phenolics	0.022		mg/L	0.005	0.002	EPA 420.4	3/10/17 00:00	JLG	3/10/17 07:28	JLG	F



 Ms. Amy K Borden  
 Project Coordinator

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**ANALYTICAL RESULTS**

Workorder: 2212605 WW/Influent Annul 03/02/17

 Lab ID: **2212605006** Date Collected: 3/2/2017 09:55 Matrix: Waste Water  
 Sample ID: **17-Influent C-Bolling-A** Date Received: 3/3/2017 20:40

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>SEMIVOLATILES</b>										
Acenaphthene	ND		ug/L	1.6	0.16	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
Acenaphthylene	ND		ug/L	1.6	0.20	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
Anthracene	ND		ug/L	1.6	0.16	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
Benzidine	ND		ug/L	8.6	3.3	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
Benzo(a)anthracene	ND		ug/L	1.6	0.14	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
Benzo(a)pyrene	ND		ug/L	1.6	0.24	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
Benzo(b)fluoranthene	ND		ug/L	1.6	0.12	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
Benzo(g,h,i)perylene	ND		ug/L	1.6	0.24	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
Benzo(k)fluoranthene	ND		ug/L	1.6	0.20	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
4-Bromophenyl-phenylether	ND		ug/L	3.2	0.18	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
Butylbenzylphthalate	ND		ug/L	3.2	0.12	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
4-Chloro-3-methylphenol	ND		ug/L	3.2	0.20	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
bis(2-Chloroethoxy)methane	ND		ug/L	3.2	0.23	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
bis(2-Chloroethyl)ether	ND		ug/L	3.2	0.18	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
bis(2-Chloroisopropyl)ether	ND		ug/L	3.2	0.30	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
2-Chloronaphthalene	ND		ug/L	3.2	0.19	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
2-Chlorophenol	ND		ug/L	3.2	0.35	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
4-Chlorophenyl-phenylether	ND		ug/L	3.2	0.15	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
Chrysene	ND		ug/L	1.6	0.13	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
Di-n-Butylphthalate	2.6J	J,2	ug/L	3.2	0.15	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
Di-n-Octylphthalate	ND		ug/L	3.2	0.11	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
Dibenzo(a,h)anthracene	ND		ug/L	1.6	0.23	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
3,3-Dichlorobenzidine	ND		ug/L	3.2	0.52	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
2,4-Dichlorophenol	ND		ug/L	3.2	0.34	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
Diethylphthalate	3.3	1	ug/L	3.2	0.19	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
2,4-Dimethylphenol	ND		ug/L	3.2	0.23	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
Dimethylphthalate	ND		ug/L	3.2	0.15	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
2,4-Dinitrophenol	ND		ug/L	6.5	1.9	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
2,4-Dinitrotoluene	ND		ug/L	3.2	0.13	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
2,6-Dinitrotoluene	ND		ug/L	3.2	0.23	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
1,2-Diphenylhydrazine	ND		ug/L	3.2	0.28	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
bis(2-Ethylhexyl)phthalate	19.4		ug/L	3.2	0.24	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
Fluoranthene	ND		ug/L	1.6	0.18	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
Fluorene	ND		ug/L	1.6	0.22	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
Hexachlorobenzene	ND		ug/L	3.2	0.25	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
Hexachlorobutadiene	ND		ug/L	3.2	0.20	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B
Hexachlorocyclopentadiene	ND		ug/L	3.2	0.18	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B

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**ANALYTICAL RESULTS**

Workorder: 2212605 WW/Influent Annul 03/02/17

 Lab ID: **2212605006** Date Collected: 3/2/2017 09:55 Matrix: Waste Water  
 Sample ID: **17-Influent C-Bolling-A** Date Received: 3/3/2017 20:40

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Hexachloroethane	ND		ug/L	3.2	0.32	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B	
Indeno(1,2,3-cd)pyrene	ND		ug/L	1.6	0.11	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B	
Isophorone	ND		ug/L	3.2	0.16	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B	
2-Methyl-4,6-dinitrophenol	ND		ug/L	6.5	0.35	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B	
Naphthalene	ND		ug/L	1.6	0.13	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B	
Nitrobenzene	ND		ug/L	3.2	0.30	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B	
2-Nitrophenol	ND		ug/L	3.2	0.48	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B	
4-Nitrophenol	ND		ug/L	3.2	1.1	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B	
N-Nitrosodimethylamine	ND		ug/L	3.2	0.69	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B	
N-Nitroso-di-n-propylamine	ND		ug/L	3.2	0.26	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B	
N-Nitrosodiphenylamine	ND		ug/L	3.2	0.19	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B	
Pentachlorophenol	ND		ug/L	6.5	1.2	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B	
Phenanthrene	0.15J	J	ug/L	1.6	0.14	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B	
Phenol	5.7J	J	ug/L	8.6	0.25	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B	
Pyrene	0.18J	J	ug/L	1.6	0.17	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B	
1,2,4-Trichlorobenzene	ND		ug/L	3.2	0.14	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B	
2,4,6-Trichlorophenol	ND		ug/L	3.2	0.61	EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B	
Surrogate Recoveries	Results	Flag	Units	Limits		Method	Prepared	By	Analyzed	By	Cntr
2,4,6-Tribromophenol (S)	112		%	47 - 128		EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B	
2-Fluorobiphenyl (S)	86.3		%	52 - 118		EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B	
2-Fluorophenol (S)	56		%	20 - 87		EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B	
Nitrobenzene-d5 (S)	88.7		%	27 - 139		EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B	
Phenol-d5 (S)	38.5		%	10 - 81		EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B	
Terphenyl-d14 (S)	97.7		%	46 - 133		EPA 625	3/8/17 08:45	JTH	3/9/17 11:12	DHF B	
Pesticides and PCBs											
Aldrin	ND		ug/L	0.022	0.0054	EPA 608	3/6/17 17:25	ACD	3/7/17 20:15	RWS D	
alpha-BHC	ND		ug/L	0.022	0.0022	EPA 608	3/6/17 17:25	ACD	3/7/17 20:15	RWS D	
beta-BHC	ND		ug/L	0.022	0.0086	EPA 608	3/6/17 17:25	ACD	3/7/17 20:15	RWS D	
delta-BHC	ND		ug/L	0.022	0.0032	EPA 608	3/6/17 17:25	ACD	3/7/17 20:15	RWS D	
gamma-BHC	ND		ug/L	0.022	0.0032	EPA 608	3/6/17 17:25	ACD	3/7/17 20:15	RWS D	
Chlordane	ND		ug/L	0.54	0.038	EPA 608	3/6/17 17:25	ACD	3/7/17 20:15	RWS D	
4,4'-DDD	ND		ug/L	0.022	0.0075	EPA 608	3/6/17 17:25	ACD	3/7/17 20:15	RWS D	
4,4'-DDE	ND		ug/L	0.022	0.0075	EPA 608	3/6/17 17:25	ACD	3/7/17 20:15	RWS D	
4,4'-DDT	ND		ug/L	0.022	0.0065	EPA 608	3/6/17 17:25	ACD	3/7/17 20:15	RWS D	
Dieldrin	ND		ug/L	0.022	0.0032	EPA 608	3/6/17 17:25	ACD	3/7/17 20:15	RWS D	
Endosulfan I	ND		ug/L	0.022	0.0032	EPA 608	3/6/17 17:25	ACD	3/7/17 20:15	RWS D	
Endosulfan II	ND		ug/L	0.022	0.0065	EPA 608	3/6/17 17:25	ACD	3/7/17 20:15	RWS D	

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**ANALYTICAL RESULTS**

Workorder: 2212605 VVV/Influent Annul 03/02/17

 Lab ID: **2212605006** Date Collected: 3/2/2017 09:55 Matrix: Waste Water  
 Sample ID: **17-Influent C-Bolling-A** Date Received: 3/3/2017 20:40

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Endosulfan Sulfate	ND		ug/L	0.022	0.0043	EPA 608	3/6/17 17:25 ACD	3/7/17 20:15	RWS	D	
Endrin	ND		ug/L	0.022	0.0086	EPA 608	3/6/17 17:25 ACD	3/7/17 20:15	RWS	D	
Endrin Aldehyde	ND		ug/L	0.022	0.011	EPA 608	3/6/17 17:25 ACD	3/7/17 20:15	RWS	D	
Heptachlor	ND		ug/L	0.022	0.0032	EPA 608	3/6/17 17:25 ACD	3/7/17 20:15	RWS	D	
Heptachlor Epoxide	ND		ug/L	0.022	0.0043	EPA 608	3/6/17 17:25 ACD	3/7/17 20:15	RWS	D	
Mirex	ND		ug/L	0.022	0.0043	EPA 608	3/6/17 17:25 ACD	3/7/17 20:15	RWS	D	
Total Polychlorinated Biphenyl	ND		ug/L	0.54	0.54	EPA 608	3/6/17 17:25 ACD	3/7/17 20:15	RWS	D	
Toxaphene	ND		ug/L	1.1	0.20	EPA 608	3/6/17 17:25 ACD	3/7/17 20:15	RWS	D	
Aroclor-1016	ND		ug/L	0.54	0.34	EPA 608	3/6/17 17:25 ACD	3/7/17 20:15	RWS	D	
Aroclor-1221	ND		ug/L	0.54	0.35	EPA 608	3/6/17 17:25 ACD	3/7/17 20:15	RWS	D	
Aroclor-1232	ND		ug/L	0.54	0.25	EPA 608	3/6/17 17:25 ACD	3/7/17 20:15	RWS	D	
Aroclor-1242	ND		ug/L	0.54	0.26	EPA 608	3/6/17 17:25 ACD	3/7/17 20:15	RWS	D	
Aroclor-1248	ND		ug/L	0.54	0.16	EPA 608	3/6/17 17:25 ACD	3/7/17 20:15	RWS	D	
Aroclor-1254	ND		ug/L	0.54	0.15	EPA 608	3/6/17 17:25 ACD	3/7/17 20:15	RWS	D	
Aroclor-1260	ND		ug/L	0.54	0.28	EPA 608	3/6/17 17:25 ACD	3/7/17 20:15	RWS	D	
<b>Surrogate Recoveries</b>	<b>Results</b>	<b>Flag</b>	<b>Units</b>	<b>Limits</b>		<b>Method</b>	<b>Prepared</b>	<b>By</b>	<b>Analyzed</b>	<b>By</b>	<b>Cntr</b>
Decachlorobiphenyls (S)	45.6		%	30 - 150		EPA 608	3/6/17 17:25 ACD		3/7/17 20:15	RWS	D
Tetrachloro-m-xylene (S)	54.7		%	36 - 112		EPA 608	3/6/17 17:25 ACD		3/7/17 20:15	RWS	D
<b>WET CHEMISTRY</b>											
Chloride	116		mg/L	5.0	0.58	EPA 300.0			3/7/17 09:49	CHW	
<b>METALS</b>											
Antimony, Total	0.00060J	J	mg/L	0.0010	0.00010	EPA 200.8	3/6/17 00:00 ZMC		3/7/17 03:56	ZMC	A1
Arsenic, Total	0.0015J	J	mg/L	0.0015	0.00032	EPA 200.8	3/6/17 00:00 ZMC		3/7/17 03:56	ZMC	A1
Beryllium, Total	0.000044J	J	mg/L	0.00050	0.000040	EPA 200.8	3/6/17 00:00 ZMC		3/7/17 12:35	MO	A1
Cadmium, Total	0.00018J	J	mg/L	0.00050	0.00012	EPA 200.8	3/6/17 00:00 ZMC		3/7/17 03:56	ZMC	A1
Chromium, Total	0.0026		mg/L	0.0010	0.00029	EPA 200.8	3/6/17 00:00 ZMC		3/7/17 03:56	ZMC	A1
Copper, Total	0.039		mg/L	0.0025	0.00038	EPA 200.8	3/6/17 00:00 ZMC		3/7/17 03:56	ZMC	A1
Lead, Total	0.0066		mg/L	0.0010	0.00011	EPA 200.8	3/6/17 00:00 ZMC		3/7/17 03:56	ZMC	A1
Manganese, Total	0.14		mg/L	0.0025	0.00011	EPA 200.8	3/6/17 00:00 ZMC		3/7/17 03:56	ZMC	A1
Molybdenum, Total	0.0082		mg/L	0.0010	0.000040	EPA 200.8	3/6/17 00:00 ZMC		3/7/17 03:56	ZMC	A1
Nickel, Total	0.0054		mg/L	0.0025	0.00012	EPA 200.8	3/6/17 00:00 ZMC		3/7/17 03:56	ZMC	A1
Selenium, Total	0.00066J	J	mg/L	0.0020	0.00015	EPA 200.8	3/6/17 00:00 ZMC		3/7/17 03:56	ZMC	A1
Silver, Total	0.00090J	J	mg/L	0.0010	0.000030	EPA 200.8	3/6/17 00:00 ZMC		3/7/17 03:56	ZMC	A1
Thallium, Total	ND		mg/L	0.00050	0.000030	EPA 200.8	3/6/17 00:00 ZMC		3/7/17 03:56	ZMC	A1

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### ANALYTICAL RESULTS

Workorder: 2212605 WW/Influent Annaul 03/02/17

Lab ID: **2212605006** Date Collected: 3/2/2017 09:55 Matrix: Waste Water  
 Sample ID: **17-Influent C-Bolling-A** Date Received: 3/3/2017 20:40

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Zinc, Total	0.091		mg/L	0.0025	0.00057	EPA 200.8	3/6/17 00:00 ZMC	3/7/17 03:56	ZMC	A1
<b>Sub'd-EMSL Labs</b>										
Asbestos	See Attached					Subcontract		3/13/17 00:00	SUB	G



Ms. Amy K Borden  
 Project Coordinator

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**PARAMETER QUALIFIERS**

Lab ID	#	Sample ID	Analytical Method	Analyte
<b>2212605002</b>	1	17-Influent A-Potomac CS-A	EPA 625	Phenol
The QC sample type DUP for method EPA 625 was outside the control limits for the analyte Phenol. The RPD was reported as 39.3 and the upper control limit is 30.				
<b>2212605002</b>	2	17-Influent A-Potomac CS-A	EPA 625	Diethylphthalate
The QC sample type LCS for method EPA 625 was outside the control limits for the analyte Diethylphthalate. The % Recovery was reported as 118 and the control limits were 3 to 114.				
<b>2212605002</b>	3	17-Influent A-Potomac CS-A	EPA 625	Di-n-Butylphthalate
The QC sample type LCS for method EPA 625 was outside the control limits for the analyte Di-n-Butylphthalate. The % Recovery was reported as 128 and the control limits were 3 to 118.				
<b>2212605002</b>	4	17-Influent A-Potomac CS-A	EPA 608	Mirex
Method criteria requires continuing calibration verification (CCV) standards be less than or equal to 15% of the initial calibration for the 608 analysis. This compound was biased low 18% in the bracketing CCV. Data for this compound may have been impacted.				
<b>2212605002</b>	5	17-Influent A-Potomac CS-A	EPA 608	4,4'-DDT
Method criteria requires continuing calibration verification (CCV) standards be less than or equal to 15% of the initial calibration for the 608 analysis. This compound was biased low 76% in the bracketing CCV. Data for this compound may have been impacted.				
<b>2212605004</b>	1	17-Influent B-Potomac SS-A	EPA 625	Diethylphthalate
The QC sample type LCS for method EPA 625 was outside the control limits for the analyte Diethylphthalate. The % Recovery was reported as 118 and the control limits were 3 to 114.				
<b>2212605004</b>	2	17-Influent B-Potomac SS-A	EPA 608	Mirex
Method criteria requires continuing calibration verification (CCV) standards be less than or equal to 15% of the initial calibration for the 608 analysis. This compound was biased low 18% in the bracketing CCV. Data for this compound may have been impacted.				
<b>2212605004</b>	3	17-Influent B-Potomac SS-A	EPA 608	4,4'-DDT
Method criteria requires continuing calibration verification (CCV) standards be less than or equal to 15% of the initial calibration for the 608 analysis. This compound was biased low 76% in the bracketing CCV. Data for this compound may have been impacted.				
<b>2212605006</b>	1	17-Influent C-Bolling-A	EPA 625	Diethylphthalate
The QC sample type LCS for method EPA 625 was outside the control limits for the analyte Diethylphthalate. The % Recovery was reported as 118 and the control limits were 3 to 114.				
<b>2212605006</b>	2	17-Influent C-Bolling-A	EPA 625	Di-n-Butylphthalate
The QC sample type LCS for method EPA 625 was outside the control limits for the analyte Di-n-Butylphthalate. The % Recovery was reported as 128 and the control limits were 3 to 118.				

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**Analytical Laboratory Services, Inc.**  
Environmental & Industrial Hygiene & Field Services

34 Dogwood Lane W Middletown, PA 17057 W 717.944.5541 W Fax: 717.944.1430

**CHAIN OF CUSTODY / REQUEST FOR ANALYSIS**  
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Generated by ALSi

ZXZX of XYXY

Client Name: DCWASA - OTHERS  
Address: 5000 Overlook Ave, SW  
Washington, D.C. 20032  
Contact: Elaine Wilson  
Phone#: 202-787-4177  
Project Name#: WW/Influent Annual  
Bill To: Accounts Payable Office- 4th Floor

TAT  Normal-Standard TAT is 10-12 business days.  
 Rush-Subject to ALSi approval and surcharges.  
Date Required: \_\_\_\_\_ Approved By: \_\_\_\_\_  
Email?  -Y  
Fax?  -Y No.

Container Type	PL	AG/CG	CG	PL	PL	AG	AG	AG	PL
500 mL	1L	40 mL	500 mL	250 mL	1L	1L	1L	1L	1L
Preservative	NaOH	H2SO4	HCl	HNO3	None	None	H2SO4	None	None

Sample Description/Location (as it will appear on the lab report)	Matrix	G	C	Enter Number of Containers Per Sample or Field Results Below:																			
				Cyanide	TPH plus total O&G	VOC - B24	Se, Ag, Zn, Sb, Be, Tl	Chloride	Semivolatiles - EPA 625 - including TCDD dioxin	Pesticides/PCBs EPA 608	Total Phenolic Compounds	Asbestos											
17 - Influent A - Potomac CS - Annual	G	WW	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
17 - Influent B - Potomac SS - Annual	G	WW	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17 - Influent C - Bolling - Annual	G	WW	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17 - Influent C - Bolling - Annual	C	WW	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Project Comments: Need lowest detection limit available for all metals, report J Flags

LOGGED BY (signature): \_\_\_\_\_  
REVIEWED BY (signature): \_\_\_\_\_

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 <i>[Signature]</i>	3/2/17	840	2 <i>[Signature]</i>	3/2/17	1040
3 <i>[Signature]</i>	3/2/17	2040	4 <i>[Signature]</i>	3/2/17	2040
5 <i>[Signature]</i>			6 <i>[Signature]</i>		
7 <i>[Signature]</i>			8 <i>[Signature]</i>		
9			10		

State Samples Collected In:  NY  NJ  PA  NC

Special Processing:  USACE  Navy

Sample Disposal:  Lab  Special

Reportable to PADEP? Yes  No

PWSID # \_\_\_\_\_

EDDS: Format Type: \_\_\_\_\_

\* G=Grab; C=Composite \*\*Matrix: A=Air; DW=Drinking Water; GW=Groundwater; O=Oil; OL=Other; Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

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34 Dogwood Lane  
Middletown, PA 17057  
P. 717-944-5541  
F. 717-944-1430

Environmental

Client Name: ALS Environmental

Address: 34 Dogwood Lane

Middletown PA 17057

Contact: Amy Borden

Phone#: 717-944-5541

Project Name#: 2212605

Bill To: Same

TAT  Normal-Standard TAT is 10-12 business days.  
 Rush-Subject to ALS approval and surcharges.

Date Required: \_\_\_\_\_ Approved By: \_\_\_\_\_

Email?  Y amy.borden@alsglobal.com

Fax?  Y No.:

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time
2212605 001-002 SSL	3/2/17	1030
2212605 002-004 3/6/17	3/2/17	1020
2212605 003-006	3/2/17	0955

Generated by ALS

2212605

1 of 1

**CHAIN OF CUSTODY/  
REQUEST FOR ANALYSIS**  
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /  
SAMPLER. INSTRUCTIONS ON THE BACK.

ALSI Quote #:

Receipt Information (Completed by Receiving Lab)

Cooler Temp: \_\_\_\_\_ Therm ID: \_\_\_\_\_

No. of Coolers: \_\_\_\_\_ Y \_\_\_\_\_ N \_\_\_\_\_

Custody Seals Present?  Y  N Initial \_\_\_\_\_

(If present) Seals Intact?  Y  N \_\_\_\_\_

Received on Ice?  Y  N \_\_\_\_\_

COC Labels Complete/Accurate?  Y  N \_\_\_\_\_

Cont. in Good Cond?  Y  N \_\_\_\_\_

Correct Containers?  Y  N \_\_\_\_\_

Correct Sample Volume?  Y  N \_\_\_\_\_

Correct Preservation?  Y  N \_\_\_\_\_

Headspace/Volatiles?  Y  N \_\_\_\_\_

ANALYSES/METHOD REQUESTED	Container Type	Plastic	Container Size	Preservative	Matrix	Enter Number of Containers Per Sample or Field Results Below.
			1L	none	Asbestos - PLM	

Sample Description/Location	Sample Date	Time	Matrix
2212605 001-002 SSL	3/2/17	1030	Asbestos - PLM
2212605 002-004 3/6/17	3/2/17	1020	Asbestos - PLM
2212605 003-006	3/2/17	0955	Asbestos - PLM

Sample Description/Location	Sample Date	Time	Matrix
2212605 001-002 SSL	3/2/17	1030	Asbestos - PLM
2212605 002-004 3/6/17	3/2/17	1020	Asbestos - PLM
2212605 003-006	3/2/17	0955	Asbestos - PLM

Sample Description/Location	Sample Date	Time	Matrix
2212605 001-002 SSL	3/2/17	1030	Asbestos - PLM
2212605 002-004 3/6/17	3/2/17	1020	Asbestos - PLM
2212605 003-006	3/2/17	0955	Asbestos - PLM

Sample Description/Location	Sample Date	Time	Matrix	Enter Number of Containers Per Sample or Field Results Below.
2212605 001-002 SSL	3/2/17	1030	Asbestos - PLM	
2212605 002-004 3/6/17	3/2/17	1020	Asbestos - PLM	
2212605 003-006	3/2/17	0955	Asbestos - PLM	

Project Comments:

LOGGED BY (signature): \_\_\_\_\_ Date: \_\_\_\_\_

REVIEWED BY (signature): \_\_\_\_\_ Date: \_\_\_\_\_

Relinquished By / Company Name: *Amy Borden* Date: 3/6/17 Time: 1705

1  
3  
5  
7  
9

ALSI Field Services:  Pickup  Labor  Composite Sampling  Rental Equipment  Other:

Special Processing:  USACE  Navy  USACE

State Samples Collected In:  NY  NJ  PA  NC  MD

Reportable to PADEP?  Yes  No

Sample Disposal:  Lab  Special

PWSID # \_\_\_\_\_

EDOS: Format Type: \_\_\_\_\_



# EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077  
Phone/Fax: (800) 220-3675 / (856) 786-5974  
<http://www.EMSL.com> / [cinnaslab@EMSL.com](mailto:cinnaslab@EMSL.com)

EMSL Order ID: 041706281  
Customer ID: WRIG51  
Customer PO:  
Project ID:

Attn: Amy Borden  
ALS Environmental  
34 Dogwood Lane  
Middletown, PA 17057

Phone: (717) 944-5541  
Fax: (717) 944-1430  
Collected: 03/02/2017  
Received: 03/07/2017  
Analyzed: 03/13/2017

Proj: 2212605

## Test Report: Determination of Asbestos Structures > 10µm in Water Performed by the 100.2 Method (EPA 600/R-94/134)

### ASBESTOS

Sample ID Client / EMSL	Sample Filtration Date/Time	Original Sample Vol. Filtered (ml)	Effective Filter Area (mm <sup>2</sup> )	Area Analyzed (mm <sup>2</sup> )	Asbestos Types	Fibers Detected	Analytical Sensitivity	Confidence Limits	
								Concentration	MFL (million fibers per liter)
2212605 002 041706281-0001	3/7/2017 12:45 PM	1	1350	0.2720	None Detected	ND	5.00	<5.00	0.00 - 18.00

Due to excessive particulate the analytical sensitivity of 0.2 MFL as required by the method was not reached. Sample ozonated prior to analysis due to lab receipt time exceeding 48hr method hold time.

2212605 004 041706281-0002	3/7/2017 12:45 PM	0.30	1350	0.2720	None Detected	ND	17.00	<17.00	0.00 - 61.00
-------------------------------	----------------------	------	------	--------	---------------	----	-------	--------	--------------

Due to excessive particulate the analytical sensitivity of 0.2 MFL as required by the method was not reached. Sample ozonated prior to analysis due to lab receipt time exceeding 48hr method hold time.

2212605 006 041706281-0003	3/7/2017 12:45 PM	0.20	1350	0.2720	None Detected	ND	25.00	<25.00	0.00 - 92.00
-------------------------------	----------------------	------	------	--------	---------------	----	-------	--------	--------------

Due to excessive particulate the analytical sensitivity of 0.2 MFL as required by the method was not reached. Sample ozonated prior to analysis due to lab receipt time exceeding 48hr method hold time.

#### Analyst(s)

Matthew Dare (2)  
Sandy Burany, Ph.D (1)

Benjamin Ellis, Laboratory Manager  
or Other Approved Signatory

Any questions please contact Benjamin Ellis.

Initial report from: 03/13/2017 11:05:30

Sample collection and containers provided by the client, acceptable bottle blank level is defined as ≤0.01MFL > 10µm. ND= None Detected. This report may not be reproduced, except in full, without written permission by EMSL Analytical, Inc. The test results contained within this report meet the requirements of NELAP unless otherwise noted. This report relates only to the samples reported above. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP NJ DEP 03036, PA ID# 69-00397

## ***Biosolids Priority Pollutant Data***



March 31, 2017

Ms. Elaine Wilson  
DC WASA  
5000 Overlook Avenue, S.W.  
Washington, DC 20032

## Certificate of Analysis

Project Name: <b>Biosolids 03/02/17</b>	Workorder: <b>2212546</b>
Purchase Order: <b>170211</b>	Workorder ID: <b>Biosolids 03/02/17</b>

Dear Ms. Wilson:

Enclosed are the analytical results for samples received by the laboratory on Friday, March 3, 2017.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Amy K Borden (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at [www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads](http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads).

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Mr. Ryan Maisano, Mr. Mark Ramirez, Accounts Payable-4th Floor

*This page is included as part of the Analytical Report and must be retained as a permanent record thereof.*

Ms. Amy K Borden  
Project Coordinator

### ALS Environmental Laboratory Locations Across North America

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Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

**SAMPLE SUMMARY**

Workorder: 2212546 Biosolids 03/02/17

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2212546001	17-Digest BFP BOCA Jan-Mar	Solid	3/2/2017 11:30	3/3/2017 20:40	Collected by Client
2212546002	17-Digest BFP BOCA Annual	Solid	3/2/2017 11:30	3/3/2017 20:40	Collected by Client

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**SAMPLE SUMMARY**

Workorder: 2212546 Biosolids 03/02/17

**Notes**

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.

**Standard Acronyms/Flags**

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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### PROJECT SUMMARY

Workorder: 2212546 Biosolids 03/02/17

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#### Workorder Comments

See attached subcontracted asbestos results from EMSL. SSL 03/13/17

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#### Sample Comments

Lab ID: 2212546001

Sample ID: 17-Digest BFP BOCA  
Jan-Mar

Sample Type: SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

One or more of the method 8260 internal standards were recovered outside of the control limits. The sample was re-analyzed with similar results, indicating a significant matrix interference.

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**ANALYTICAL RESULTS**

Workorder: 2212546 Biosolids 03/02/17

 Lab ID: **2212546001** Date Collected: 3/2/2017 11:30 Matrix: Solid  
 Sample ID: **17-Digest BFP BOCA Jan-Mar** Date Received: 3/3/2017 20:40

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	1700		ug/kg	34.1	15.7	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
Benzene	15.2		ug/kg	6.8	1.7	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
Bromochloromethane	ND		ug/kg	6.8	1.7	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
Bromodichloromethane	ND		ug/kg	6.8	2.4	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
Bromoform	ND		ug/kg	6.8	1.8	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
Bromomethane	ND		ug/kg	6.8	1.8	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
2-Butanone	847		ug/kg	34.1	10.9	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
Carbon Disulfide	28.9		ug/kg	6.8	2.1	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
Carbon Tetrachloride	ND		ug/kg	6.8	1.7	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
Chlorobenzene	1.9J	J	ug/kg	6.8	1.7	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
Chlorodibromomethane	ND		ug/kg	6.8	2.3	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
Chloroethane	ND		ug/kg	17.1	2.9	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
Chloroform	ND		ug/kg	6.8	1.8	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
Chloromethane	ND		ug/kg	6.8	1.9	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
1,2-Dibromo-3-chloropropane	ND		ug/kg	17.1	9.9	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
1,2-Dibromoethane	ND		ug/kg	6.8	1.8	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
1,1-Dichloroethane	ND		ug/kg	6.8	1.7	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
1,2-Dichloroethane	ND		ug/kg	6.8	1.7	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
1,1-Dichloroethene	ND		ug/kg	6.8	1.8	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
cis-1,2-Dichloroethene	ND		ug/kg	6.8	1.7	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
trans-1,2-Dichloroethene	ND		ug/kg	6.8	1.8	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
1,2-Dichloropropane	ND		ug/kg	6.8	2.0	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
cis-1,3-Dichloropropene	ND		ug/kg	6.8	1.9	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
trans-1,3-Dichloropropene	ND		ug/kg	6.8	2.0	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
Ethylbenzene	11.6		ug/kg	6.8	2.3	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
2-Hexanone	ND		ug/kg	34.1	9.6	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
4-Methyl-2-Pentanone(MIBK)	ND		ug/kg	34.1	13.0	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
Methylene Chloride	19.2		ug/kg	6.8	2.7	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
Styrene	1.7J	J	ug/kg	6.8	1.7	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
1,1,2,2-Tetrachloroethane	ND		ug/kg	6.8	1.9	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
Tetrachloroethene	2.8J	J	ug/kg	6.8	2.0	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
Toluene	122		ug/kg	6.8	2.3	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
Total Xylenes	165		ug/kg	20.5	4.8	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
1,1,1-Trichloroethane	ND		ug/kg	6.8	2.1	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
1,1,2-Trichloroethane	ND		ug/kg	6.8	1.9	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2
Trichloroethene	ND		ug/kg	6.8	1.7	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2

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**ANALYTICAL RESULTS**

Workorder: 2212546 Biosolids 03/02/17

 Lab ID: **2212546001** Date Collected: 3/2/2017 11:30 Matrix: Solid  
 Sample ID: **17-Digest BFP BOCA Jan-Mar** Date Received: 3/3/2017 20:40

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Vinyl Chloride	ND		ug/kg	6.8	1.7	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2	
o-Xylene	5.3J	J	ug/kg	6.8	2.0	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2	
mp-Xylene	159		ug/kg	13.6	2.8	SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2	
<b>Surrogate Recoveries</b>	<b>Results</b>	<b>Flag</b>	<b>Units</b>	<b>Limits</b>		<b>Method</b>	<b>Prepared</b>	<b>By</b>	<b>Analyzed</b>	<b>By</b>	<b>Cntr</b>
1,2-Dichloroethane-d4 (S)	101		%	56 - 124		SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2	
4-Bromofluorobenzene (S)	110		%	51 - 128		SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2	
Dibromofluoromethane (S)	96.1		%	62 - 123		SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2	
Toluene-d8 (S)	118		%	59 - 131		SW846 8260B	3/2/17 11:30	TMP	3/7/17 13:53	TMP E2	
<b>SEMIVOLATILES</b>											
Acenaphthene	184J	J	ug/kg	1170	140	SW846 8270D	3/6/17 04:55	VLM	3/7/17 15:54	CGS A	
Acenaphthylene	ND		ug/kg	1170	164	SW846 8270D	3/6/17 04:55	VLM	3/7/17 15:54	CGS A	
Anthracene	ND		ug/kg	1170	187	SW846 8270D	3/6/17 04:55	VLM	3/7/17 15:54	CGS A	
Benzo(a)anthracene	465J	J	ug/kg	1170	117	SW846 8270D	3/6/17 04:55	VLM	3/7/17 15:54	CGS A	
Benzo(a)pyrene	351J	J	ug/kg	1170	93.5	SW846 8270D	3/6/17 04:55	VLM	3/7/17 15:54	CGS A	
Benzo(b)fluoranthene	423J	J	ug/kg	1170	117	SW846 8270D	3/6/17 04:55	VLM	3/7/17 15:54	CGS A	
Benzo(g,h,i)perylene	ND		ug/kg	1170	117	SW846 8270D	3/6/17 04:55	VLM	3/7/17 15:54	CGS A	
Benzo(k)fluoranthene	271J	J	ug/kg	1170	117	SW846 8270D	3/6/17 04:55	VLM	3/7/17 15:54	CGS A	
4-Bromophenyl-phenylether	ND		ug/kg	2340	210	SW846 8270D	3/6/17 04:55	VLM	3/7/17 15:54	CGS A	
Butylbenzylphthalate	1730J	J	ug/kg	2340	164	SW846 8270D	3/6/17 04:55	VLM	3/7/17 15:54	CGS A	
Carbazole	770J	J	ug/kg	2340	164	SW846 8270D	3/6/17 04:55	VLM	3/7/17 15:54	CGS A	
4-Chloro-3-methylphenol	ND		ug/kg	4680	234	SW846 8270D	3/6/17 04:55	VLM	3/7/17 15:54	CGS A	
4-Chloroaniline	811J	J	ug/kg	4680	281	SW846 8270D	3/6/17 04:55	VLM	3/7/17 15:54	CGS A	
bis(2-Chloroethoxy)methane	ND		ug/kg	2340	210	SW846 8270D	3/6/17 04:55	VLM	3/7/17 15:54	CGS A	
bis(2-Chloroethyl)ether	ND		ug/kg	2340	304	SW846 8270D	3/6/17 04:55	VLM	3/7/17 15:54	CGS A	
bis(2-Chloroisopropyl)ether	ND		ug/kg	2340	351	SW846 8270D	3/6/17 04:55	VLM	3/7/17 15:54	CGS A	
2-Chloronaphthalene	ND		ug/kg	2340	140	SW846 8270D	3/6/17 04:55	VLM	3/7/17 15:54	CGS A	
2-Chlorophenol	ND		ug/kg	4680	187	SW846 8270D	3/6/17 04:55	VLM	3/7/17 15:54	CGS A	
4-Chlorophenyl-phenylether	ND		ug/kg	2340	187	SW846 8270D	3/6/17 04:55	VLM	3/7/17 15:54	CGS A	
Chrysene	343J	J	ug/kg	1170	117	SW846 8270D	3/6/17 04:55	VLM	3/7/17 15:54	CGS A	
mp-Cresol	1580J	J	ug/kg	4680	187	SW846 8270D	3/6/17 04:55	VLM	3/7/17 15:54	CGS A	
o-Cresol	ND		ug/kg	4680	257	SW846 8270D	3/6/17 04:55	VLM	3/7/17 15:54	CGS A	
Di-n-Butylphthalate	882J	J	ug/kg	2340	187	SW846 8270D	3/6/17 04:55	VLM	3/7/17 15:54	CGS A	
Di-n-Octylphthalate	1490J	J	ug/kg	2340	164	SW846 8270D	3/6/17 04:55	VLM	3/7/17 15:54	CGS A	
Dibenzo(a,h)anthracene	ND		ug/kg	1170	140	SW846 8270D	3/6/17 04:55	VLM	3/7/17 15:54	CGS A	
Dibenzofuran	ND		ug/kg	2340	187	SW846 8270D	3/6/17 04:55	VLM	3/7/17 15:54	CGS A	
1,2-Dichlorobenzene	ND		ug/kg	2340	210	SW846 8270D	3/6/17 04:55	VLM	3/7/17 15:54	CGS A	
1,3-Dichlorobenzene	ND		ug/kg	2340	164	SW846 8270D	3/6/17 04:55	VLM	3/7/17 15:54	CGS A	

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**ANALYTICAL RESULTS**

Workorder: 2212546 Biosolids 03/02/17

 Lab ID: **2212546001** Date Collected: 3/2/2017 11:30 Matrix: Solid  
 Sample ID: **17-Digest BFP BOCA Jan-Mar** Date Received: 3/3/2017 20:40

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
1,4-Dichlorobenzene	ND		ug/kg	2340	164	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
3,3-Dichlorobenzidine	ND		ug/kg	4680	889	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
2,4-Dichlorophenol	ND		ug/kg	4680	187	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
Diethylphthalate	ND		ug/kg	2340	187	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
2,4-Dimethylphenol	ND		ug/kg	4680	351	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
Dimethylphthalate	ND		ug/kg	2340	164	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
2,4-Dinitrophenol	ND		ug/kg	4680	935	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
2,4-Dinitrotoluene	ND		ug/kg	2340	210	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
2,6-Dinitrotoluene	ND		ug/kg	2340	281	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
bis(2-Ethylhexyl)phthalate	52100		ug/kg	2340	164	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
Fluoranthene	574J	J	ug/kg	1170	117	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
Fluorene	ND		ug/kg	1170	140	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
Hexachlorobenzene	ND		ug/kg	2340	257	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
Hexachlorobutadiene	ND		ug/kg	2340	234	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
Hexachlorocyclopentadiene	ND		ug/kg	4680	257	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
Hexachloroethane	ND		ug/kg	2340	210	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
Indeno(1,2,3-cd)pyrene	1620		ug/kg	1170	164	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
Isophorone	ND		ug/kg	2340	140	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
2-Methyl-4,6-dinitrophenol	ND		ug/kg	4680	608	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
2-Methylnaphthalene	226J	J	ug/kg	2340	117	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
Naphthalene	183J	J	ug/kg	1170	140	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
2-Nitroaniline	ND		ug/kg	4680	281	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
3-Nitroaniline	ND		ug/kg	4680	468	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
4-Nitroaniline	ND		ug/kg	4680	187	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
Nitrobenzene	ND		ug/kg	2340	281	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
2-Nitrophenol	ND		ug/kg	4680	257	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
4-Nitrophenol	ND		ug/kg	4680	327	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
N-Nitrosodimethylamine	ND		ug/kg	2340	351	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
N-Nitroso-di-n-propylamine	ND		ug/kg	2340	187	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
N-Nitrosodiphenylamine	ND		ug/kg	2340	187	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
Pentachlorophenol	ND		ug/kg	4680	608	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
Phenanthrene	507J	J	ug/kg	1170	117	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
Phenol	28700		ug/kg	4680	234	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
Pyrene	547J	J	ug/kg	1170	117	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
1,2,4-Trichlorobenzene	ND		ug/kg	2340	140	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
2,4,5-Trichlorophenol	ND		ug/kg	4680	281	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
2,4,6-Trichlorophenol	ND		ug/kg	4680	281	SW846 8270D	3/6/17 04:55	VLM 3/7/17 15:54	CGS	A	
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>

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**ANALYTICAL RESULTS**

Workorder: 2212546 Biosolids 03/02/17

Lab ID: **2212546001** Date Collected: 3/2/2017 11:30 Matrix: Solid  
Sample ID: **17-Digest BFP BOCA Jan-Mar** Date Received: 3/3/2017 20:40

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
2,4,6-Tribromophenol (S)	74.4		%	19 - 132		SW846 8270D	3/6/17 04:55 VLM	3/7/17 15:54	CGS	A
2-Fluorobiphenyl (S)	96.6		%	40 - 110		SW846 8270D	3/6/17 04:55 VLM	3/7/17 15:54	CGS	A
2-Fluorophenol (S)	71		%	26 - 116		SW846 8270D	3/6/17 04:55 VLM	3/7/17 15:54	CGS	A
Nitrobenzene-d5 (S)	82.3		%	38 - 112		SW846 8270D	3/6/17 04:55 VLM	3/7/17 15:54	CGS	A
Phenol-d5 (S)	79.5		%	35 - 111		SW846 8270D	3/6/17 04:55 VLM	3/7/17 15:54	CGS	A
Terphenyl-d14 (S)	87.4		%	45 - 126		SW846 8270D	3/6/17 04:55 VLM	3/7/17 15:54	CGS	A
<b>PESTICIDES</b>										
Aldrin	ND		ug/kg	64.5	20.9	SW846 8081B	3/6/17 03:50 CMA	3/6/17 17:55	RWS	A
alpha-BHC	ND		ug/kg	64.5	5.7	SW846 8081B	3/6/17 03:50 CMA	3/6/17 17:55	RWS	A
beta-BHC	ND		ug/kg	64.5	6.8	SW846 8081B	3/6/17 03:50 CMA	3/6/17 17:55	RWS	A
delta-BHC	ND		ug/kg	64.5	4.9	SW846 8081B	3/6/17 03:50 CMA	3/6/17 17:55	RWS	A
gamma-BHC	ND		ug/kg	64.5	5.3	SW846 8081B	3/6/17 03:50 CMA	3/6/17 17:55	RWS	A
alpha-Chlordane	ND		ug/kg	64.5	6.8	SW846 8081B	3/6/17 03:50 CMA	3/6/17 17:55	RWS	A
gamma-Chlordane	ND		ug/kg	64.5	11.0	SW846 8081B	3/6/17 03:50 CMA	3/6/17 17:55	RWS	A
4,4'-DDD	ND		ug/kg	125	10.2	SW846 8081B	3/6/17 03:50 CMA	3/6/17 17:55	RWS	A
4,4'-DDE	ND		ug/kg	125	17.1	SW846 8081B	3/6/17 03:50 CMA	3/6/17 17:55	RWS	A
4,4'-DDT	ND		ug/kg	125	14.4	SW846 8081B	3/6/17 03:50 CMA	3/6/17 17:55	RWS	A
Dieldrin	ND		ug/kg	125	14.4	SW846 8081B	3/6/17 03:50 CMA	3/6/17 17:55	RWS	A
Endosulfan I	ND		ug/kg	64.5	8.0	SW846 8081B	3/6/17 03:50 CMA	3/6/17 17:55	RWS	A
Endosulfan II	ND		ug/kg	125	26.2	SW846 8081B	3/6/17 03:50 CMA	3/6/17 17:55	RWS	A
Endosulfan Sulfate	ND		ug/kg	125	8.4	SW846 8081B	3/6/17 03:50 CMA	3/6/17 17:55	RWS	A
Endrin	ND		ug/kg	125	9.1	SW846 8081B	3/6/17 03:50 CMA	3/6/17 17:55	RWS	A
Endrin Aldehyde	ND		ug/kg	125	13.7	SW846 8081B	3/6/17 03:50 CMA	3/6/17 17:55	RWS	A
Endrin Ketone	ND		ug/kg	125	17.5	SW846 8081B	3/6/17 03:50 CMA	3/6/17 17:55	RWS	A
Heptachlor	ND		ug/kg	64.5	6.5	SW846 8081B	3/6/17 03:50 CMA	3/6/17 17:55	RWS	A
Heptachlor Epoxide	ND		ug/kg	64.5	6.5	SW846 8081B	3/6/17 03:50 CMA	3/6/17 17:55	RWS	A
Methoxychlor	ND		ug/kg	125	16.7	SW846 8081B	3/6/17 03:50 CMA	3/6/17 17:55	RWS	A
Toxaphene	ND		ug/kg	1330	220	SW846 8081B	3/6/17 03:50 CMA	3/6/17 17:55	RWS	A
<b>Surrogate Recoveries</b>										
Decachlorobiphenyls (S)	55.4		%	30 - 135		SW846 8081B	3/6/17 03:50 CMA	3/6/17 17:55	RWS	A
Tetrachloro-m-xylene (S)	44.7		%	30 - 111		SW846 8081B	3/6/17 03:50 CMA	3/6/17 17:55	RWS	A
<b>WET CHEMISTRY</b>										
Cyanide, Total	0.66J	J	mg/kg	0.82	0.29	SW846 9012B	3/6/17 11:54 CTD	3/6/17 13:15	CTD	A
Hexane Extractable Material	85500		mg/kg	672	200	SW846 9071B		3/8/17 14:00	AT	A
Moisture	70.5		%	0.1	0.01	S2540G-11		3/6/17 12:47	VKB	A
Silica Gel Treated HEM	17100		mg/kg	672	200	SW846 9071B		3/8/17 14:00	AT	A
Total Solids	29.5		%	0.1	0.01	S2540G-11		3/6/17 12:47	VKB	A

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### ANALYTICAL RESULTS

Workorder: 2212546 Biosolids 03/02/17

Lab ID: **2212546001** Date Collected: 3/2/2017 11:30 Matrix: Solid  
 Sample ID: **17-Digest BFP BOCA Jan-Mar** Date Received: 3/3/2017 20:40

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
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Ms. Amy K Borden  
 Project Coordinator

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**ANALYTICAL RESULTS**

Workorder: 2212546 Biosolids 03/02/17

 Lab ID: **2212546002** Date Collected: 3/2/2017 11:30 Matrix: Solid  
 Sample ID: **17-Digest BFP BOCA Annual** Date Received: 3/3/2017 20:40

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>WET CHEMISTRY</b>										
Moisture	72.7		%	0.1	0.01	S2540G-11		3/6/17 12:47	VKB	
Phenolics	92.6		mg/kg	3.7	2	SW846 9066	3/9/17 18:45 JAL	3/19/17 10:53	KXK	A
Total Solids	27.3		%	0.1	0.01	S2540G-11		3/6/17 12:47	VKB	
<b>SUBCONTRACTED ANALYSIS</b>										
Subcontracted Analysis	See Attached					Subcontract		3/10/17 00:00	SUB	



 Ms. Amy K Borden  
 Project Coordinator

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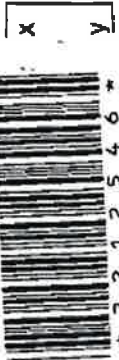


**Analytical Laboratory Services, Inc.**  
Environmental w/ Industrial Hygiene w/ Field Services  
34 Dogwood Lane w/ Middletown, PA 17057 w/ 717.944.5541 w/ Fax: 717.944.1430

**CHAIN OF CUSTODY / REQUEST FOR ANALYSIS SAMPLER. INSTRUCTIONS ON THE BACK.**

Generated by ALS

COC #: **A**  
ALSI Quo



\* 2 2 1 2 5 4 6 \*

Client Name: DCWASA - Others  
Address: 5000 Overlook Ave, SW Washington, D.C. 20032  
Contact: Mark Ramirez  
Phone#: 202-787-4002  
Project Name#: Bio/Annual  
Bill To: Accounts Payable Office-4th Floor

TAT  Normal-Standard TAT is 10-12 business days.  
Date Required:  Rush-Subject to ALSI approval and surcharges. Approved By: \_\_\_\_\_  
Email?  -Y  
Fax?  -Y No.

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time
17 - Digest BFP BOCA JAN-MAR	3/2/17	1130
17 - Digest BFP BOCA Annual	3/2/17	1130

Container Type	AG	AG	AG	AG	AG	AG	AG	AG
Container Size	8 OZ	8 OZ	8 OZ	8 OZ	8 OZ	8 OZ	8 OZ	8 OZ
Preservative	None	None	None	None	None	None	None	None

ANALYSES/METHOD REQUESTED	Enter Number of Containers Per Sample or Field Results Below.
Cyanide, % solids	1
TPH & Total O&G - SW846-9071	1
VOC (SW846-8260)	1
semi-volatiles (SW846-8270) - including TCDD dioxin (see comments)	1*
Pesticides (SW846-9081)	1
Phenols (SW846-9066), Asbestos	1

Project Comments: \*Run % solids and report data as mg/kg dry weight  
 Refiniquished By / Company Name: *Debra H. Ware*  
 Date / Time: 3/2/17 1130  
 Received By / Company Name: *Debra H. Ware*  
 Date / Time: 3/2/17 1130  
 Reported to PADEP?  Yes  No  
 PWSID #: 313 2040  
 EDDS: Formal Type: \_\_\_\_\_

Receives information (completed by Receiving Lab)  
 Cooler Temp: *LC* Therm ID: *318*  
 No. of Coolers: Y  N   
 Custody Seals Present? (if present) Seals Intact? Received on Ice? COCLabels Complete/Accurate? Cont. in Good Cond.? Correct Containers? Correct Sample Volumes? Correct Preservation? Headspace/Volatiles? Courier Tracking #: \_\_\_\_\_ Sample/COC Comments: \*plus hexachlorobenzene, hexachlorobutadiene and toxaphene

ALSI Field Services: oPickup oLabor oComposite Sampling oRental Equipment oOther:  
 Standard  CLP-like  USACE   
 Special Processing: USACE  Navy   
 State Samples Collected In: NY  NJ  PA  NC   
 State Disposal: Lab  Special



34 Dogwood Lane  
Middletown, PA 17057  
P. 717-944-5541  
F. 717-944-1430

**Environmental**

### CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

Generated by ALSI

2212546

1 of 1

ALSI Quote #:

Client Name: ALS Environmental  
Address: 34 Dogwood Lane  
Middletown PA 17057  
Contact: Amy Borden  
Phone#: 717-944-5541  
Project Name#: \_\_\_\_\_  
Bill To: Same

TAT  Normal-Standard TAT is 10-12 business days.  
Date Required:  Rush-Subject to ALS approval and surcharges.  
Approved By: \_\_\_\_\_  
Email?  amy.borden@aisglobal.com  
Fax?  No.

Container Type: Plastic  
Cooler Temp: 16 oz  
No. of Coolers: none  
Therm ID: \_\_\_\_\_  
Y \_\_\_\_\_ N \_\_\_\_\_

Receipt Information (Completed by Receiving Lab)  
Cooler Temp: \_\_\_\_\_ Therm ID: \_\_\_\_\_  
No. of Coolers: \_\_\_\_\_ Y \_\_\_\_\_ N \_\_\_\_\_  
Custody Seals Present? \_\_\_\_\_  
(if present) Seals Intact? \_\_\_\_\_  
Received on Ice? \_\_\_\_\_  
COCL Labels Complete/Accurate? \_\_\_\_\_  
Cont. in Good Cond.? \_\_\_\_\_  
Correct Containers? \_\_\_\_\_  
Correct Sample Volumes? \_\_\_\_\_  
Correct Preservation? \_\_\_\_\_  
Headspace/Volatiles? \_\_\_\_\_  
Counter/Tracking #: \_\_\_\_\_  
Sample/COC Comments: \_\_\_\_\_

ANALYSES/METHOD REQUESTED			Enter Number of Containers Per Sample or Field Results Below.				Special Processing		State Samples Collected In					
Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	G	S	C	Matrix	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> CLP-like <input type="checkbox"/> USACE	USACE	Navy	NY	NJ	PA	NC	MD
Project Comments:	Refinshed By / Company Name	Date	Time	Received By / Company Name		Date	Time	Reportable to PADEP?	Sample Disposal	Lab	Special	PWSID #	EDDS: Format Type	
2212546 002	3/16/17	1130	C	S	1	Asbestos - PLM								
<p>LOGGED BY (signature): _____ DATE: _____</p> <p>REVIEWED BY (signature): _____ DATE: _____</p>														
1	_____	_____	_____	_____		_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	_____	_____	_____	_____		_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	_____	_____	_____	_____		_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	_____	_____	_____	_____		_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	_____	_____	_____	_____		_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ALSI Field Services:  oPickup  oLabor  
oComposite Sampling  oRental Equipment  
oOther: \_\_\_\_\_

Matrix: \*G=Grab, C=Composite  
Copies: WHITE - ORIGINAL CANARY - CUSTOMER MAILING PINK - FILE GOLDENROD - CUSTOMER COPY  
Rev 8/04





**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077  
Phone/Fax: (800) 220-3675 / (856) 786-5974  
<http://www.EMSL.com> [cinncslab@EMSL.com](mailto:cinncslab@EMSL.com)

EMSL Order: 041706366  
CustomerID: WRIG51  
CustomerPO:  
ProjectID:

Attn: **Amy Borden**  
**ALS Environmental**  
**34 Dogwood Lane**  
**Middletown, PA 17057**

Phone: (717) 944-5541  
Fax: (717) 944-1430  
Received: 03/07/17 11:00 AM  
Analysis Date: 3/10/2017  
Collected:

Project: 2212546

**Test Report: Asbestos Analysis via Polarized Light Microscopy, Qualitative**

Sample	Description	Appearance	Result	Notes
2212546 002		Black	None Detected	
041706366-0001		Fibrous Homogeneous		

Analyst(s)  
Garret Vifet (1)

  
Benjamin Ellis, Laboratory Manager  
or other approved signatory

EMSL maintains liability limited to the cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.  
Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NYS ELAP 10872, PA ID# 68-00367

Initial report from 03/10/2017 17:12:11

***Additional Biosolids Toxic Organics Pollutant Data***

May 31, 2017

Ms. Elaine Wilson  
DC WASA  
5000 Overlook Avenue, S.W.  
Washington, DC 20032

## Certificate of Analysis

Project Name:	<b>Biosolids 05/11/17</b>	Workorder:	<b>2229337</b>
Purchase Order:	<b>170211</b>	Workorder ID:	<b>Biosolids 05/11/17</b>

Dear Ms. Wilson:

Enclosed are the analytical results for samples received by the laboratory on Thursday, May 11, 2017.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Amy K Borden (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at [www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads](http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads).

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Mr. Ryan Maisano, Mr. Mark Ramirez, Accounts Payable-4th Floor

*This page is included as part of the Analytical Report and must be retained as a permanent record thereof.*

Ms. Amy K Borden  
Project Coordinator

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### SAMPLE SUMMARY

Workorder: 2229337 Biosolids 05/11/17

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2229337001	Digest BFP BOCA 2nd Qtr 2017	Solid	5/10/2017 10:00	5/11/2017 21:15	Ms. Elaine Wilson

#### Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.

#### Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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### PROJECT SUMMARY

Workorder: 2229337 Biosolids 05/11/17

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#### Sample Comments

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Lab ID: 2229337001

Sample ID: Digest BFP BOCA 2nd  
Qtr 2017

Sample Type: SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

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**ANALYTICAL RESULTS**

Workorder: 2229337 Biosolids 05/11/17

 Lab ID: **2229337001** Date Collected: 5/10/2017 10:00 Matrix: Solid  
 Sample ID: **Digest BFP BOCA 2nd Qtr 2017** Date Received: 5/11/2017 21:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	5180	1,2	ug/kg	67.3	31.0	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
Benzene	13.5J	J	ug/kg	13.5	3.4	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
Bromochloromethane	ND		ug/kg	13.5	3.4	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
Bromodichloromethane	ND		ug/kg	13.5	4.8	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
Bromoform	ND		ug/kg	13.5	3.5	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
Bromomethane	ND		ug/kg	13.5	3.5	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
2-Butanone	1750		ug/kg	67.3	21.5	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
Carbon Disulfide	94.1	6	ug/kg	13.5	4.2	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
Carbon Tetrachloride	ND		ug/kg	13.5	3.4	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
Chlorobenzene	ND		ug/kg	13.5	3.4	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
Chlorodibromomethane	ND		ug/kg	13.5	4.6	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
Chloroethane	ND		ug/kg	33.7	5.7	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
Chloroform	ND		ug/kg	13.5	3.6	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
Chloromethane	ND		ug/kg	13.5	3.7	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
1,2-Dibromo-3-chloropropane	ND		ug/kg	33.7	19.5	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
1,2-Dibromoethane	ND		ug/kg	13.5	3.6	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
1,1-Dichloroethane	ND		ug/kg	13.5	3.4	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
1,2-Dichloroethane	ND		ug/kg	13.5	3.4	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
1,1-Dichloroethene	ND		ug/kg	13.5	3.5	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
cis-1,2-Dichloroethene	ND		ug/kg	13.5	3.4	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
trans-1,2-Dichloroethene	ND		ug/kg	13.5	3.5	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
1,2-Dichloropropane	ND		ug/kg	13.5	4.0	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
cis-1,3-Dichloropropene	ND		ug/kg	13.5	3.7	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
trans-1,3-Dichloropropene	ND		ug/kg	13.5	3.9	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
Ethylbenzene	11.3J	J	ug/kg	13.5	4.6	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
2-Hexanone	24.9J	J	ug/kg	67.3	18.9	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
4-Methyl-2-Pentanone(MIBK)	42.5J	J	ug/kg	67.3	25.6	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
Methylene Chloride	48.0	3,4,5	ug/kg	13.5	5.3	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
Styrene	ND		ug/kg	13.5	3.4	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
1,1,2,2-Tetrachloroethane	ND		ug/kg	13.5	3.8	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
Tetrachloroethene	ND		ug/kg	13.5	4.0	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
Toluene	81.3		ug/kg	13.5	4.5	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
Total Xylenes	93.0		ug/kg	40.4	9.4	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
1,1,1-Trichloroethane	ND		ug/kg	13.5	4.2	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2
1,1,2-Trichloroethane	ND		ug/kg	13.5	3.8	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2

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**ANALYTICAL RESULTS**

Workorder: 2229337 Biosolids 05/11/17

 Lab ID: **2229337001**

Date Collected: 5/10/2017 10:00

Matrix: Solid

 Sample ID: **Digest BFP BOCA 2nd Qtr 2017**

Date Received: 5/11/2017 21:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Trichloroethene	ND		ug/kg	13.5	3.4	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2	
Vinyl Chloride	ND		ug/kg	13.5	3.4	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2	
o-Xylene	ND		ug/kg	13.5	3.9	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2	
mp-Xylene	93.0		ug/kg	26.9	5.6	SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2	
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	88.3		%	56 - 124		SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2	
4-Bromofluorobenzene (S)	98.6		%	51 - 128		SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2	
Dibromofluoromethane (S)	93.8		%	62 - 123		SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2	
Toluene-d8 (S)	82.3		%	59 - 131		SW846 8260B	5/12/17 01:27 SYB	5/12/17 03:46	SYB	E2	
<b>SEMIVOLATILES</b>											
Acenaphthene	ND		ug/kg	1990	239	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A	
Acenaphthylene	ND		ug/kg	1990	279	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A	
Anthracene	ND		ug/kg	1990	318	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A	
Benzo(a)anthracene	ND		ug/kg	1990	199	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A	
Benzo(a)pyrene	349J	J	ug/kg	1990	159	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A	
Benzo(b)fluoranthene	ND		ug/kg	1990	199	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A	
Benzo(g,h,i)perylene	342J	J	ug/kg	1990	199	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A	
Benzo(k)fluoranthene	ND		ug/kg	1990	199	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A	
4-Bromophenyl-phenylether	ND		ug/kg	3980	358	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A	
Butylbenzylphthalate	1710J	J	ug/kg	3980	279	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A	
Carbazole	632J	J	ug/kg	3980	279	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A	
4-Chloro-3-methylphenol	ND		ug/kg	7960	398	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A	
4-Chloroaniline	1250J	J	ug/kg	7960	478	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A	
bis(2-Chloroethoxy)methane	ND		ug/kg	3980	358	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A	
bis(2-Chloroethyl)ether	ND		ug/kg	3980	517	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A	
bis(2-Chloroisopropyl)ether	ND		ug/kg	3980	597	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A	
2-Chloronaphthalene	ND		ug/kg	3980	239	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A	
2-Chlorophenol	ND		ug/kg	7960	318	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A	
4-Chlorophenyl-phenylether	ND		ug/kg	3980	318	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A	
Chrysene	ND		ug/kg	1990	199	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A	
mp-Cresol	1030J	J	ug/kg	7960	318	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A	
o-Cresol	ND		ug/kg	7960	438	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A	
Di-n-Butylphthalate	738J	J	ug/kg	3980	318	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A	
Di-n-Octylphthalate	ND		ug/kg	3980	279	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A	
Dibenzo(a,h)anthracene	ND		ug/kg	1990	239	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A	
Dibenzofuran	ND		ug/kg	3980	318	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A	
1,2-Dichlorobenzene	ND		ug/kg	3980	358	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A	

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**ANALYTICAL RESULTS**

Workorder: 2229337 Biosolids 05/11/17

 Lab ID: **2229337001** Date Collected: 5/10/2017 10:00 Matrix: Solid  
 Sample ID: **Digest BFP BOCA 2nd Qtr 2017** Date Received: 5/11/2017 21:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
1,3-Dichlorobenzene	ND		ug/kg	3980	279	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
1,4-Dichlorobenzene	ND		ug/kg	3980	279	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
3,3-Dichlorobenzidine	ND		ug/kg	7960	1510	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
2,4-Dichlorophenol	ND		ug/kg	7960	318	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
Diethylphthalate	ND		ug/kg	3980	318	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
2,4-Dimethylphenol	ND		ug/kg	7960	597	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
Dimethylphthalate	ND		ug/kg	3980	279	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
2,4-Dinitrophenol	ND		ug/kg	7960	1590	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
2,4-Dinitrotoluene	ND		ug/kg	3980	358	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
2,6-Dinitrotoluene	ND		ug/kg	3980	478	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
bis(2-Ethylhexyl)phthalate	35900		ug/kg	3980	279	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
Fluoranthene	ND		ug/kg	1990	199	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
Fluorene	ND		ug/kg	1990	239	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
Hexachlorobenzene	ND		ug/kg	3980	438	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
Hexachlorobutadiene	ND		ug/kg	3980	398	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
Hexachlorocyclopentadiene	ND		ug/kg	7960	438	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
Hexachloroethane	ND		ug/kg	3980	358	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
Indeno(1,2,3-cd)pyrene	1290J	J	ug/kg	1990	279	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
Isophorone	ND		ug/kg	3980	239	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
2-Methyl-4,6-dinitrophenol	ND		ug/kg	7960	1030	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
2-Methylnaphthalene	ND		ug/kg	3980	199	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
Naphthalene	ND		ug/kg	1990	239	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
2-Nitroaniline	ND		ug/kg	7960	478	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
3-Nitroaniline	ND		ug/kg	7960	796	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
4-Nitroaniline	ND		ug/kg	7960	318	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
Nitrobenzene	ND		ug/kg	3980	478	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
2-Nitrophenol	ND		ug/kg	7960	438	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
4-Nitrophenol	ND		ug/kg	7960	557	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
N-Nitrosodimethylamine	ND		ug/kg	3980	597	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
N-Nitroso-di-n-propylamine	ND		ug/kg	3980	318	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
N-Nitrosodiphenylamine	ND		ug/kg	3980	318	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
Pentachlorophenol	ND		ug/kg	7960	1030	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
Phenanthrene	504J	J	ug/kg	1990	199	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
Phenol	24500		ug/kg	7960	398	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
Pyrene	852J	J	ug/kg	1990	199	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
1,2,4-Trichlorobenzene	ND		ug/kg	3980	239	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
2,4,5-Trichlorophenol	ND		ug/kg	7960	478	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A
2,4,6-Trichlorophenol	ND		ug/kg	7960	478	SW846 8270D	5/16/17 04:30 CMA	5/17/17 21:56	CGS	A

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**ANALYTICAL RESULTS**

Workorder: 2229337 Biosolids 05/11/17

 Lab ID: **2229337001** Date Collected: 5/10/2017 10:00 Matrix: Solid  
 Sample ID: **Digest BFP BOCA 2nd Qtr 2017** Date Received: 5/11/2017 21:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>Surrogate Recoveries</b>										
2,4,6-Tribromophenol (S)	68.7		%	19 - 132		SW846 8270D	5/16/17 04:30	CMA	5/17/17 21:56	CGS A
2-Fluorobiphenyl (S)	78.1		%	40 - 110		SW846 8270D	5/16/17 04:30	CMA	5/17/17 21:56	CGS A
2-Fluorophenol (S)	67.5		%	26 - 116		SW846 8270D	5/16/17 04:30	CMA	5/17/17 21:56	CGS A
Nitrobenzene-d5 (S)	65.2		%	38 - 112		SW846 8270D	5/16/17 04:30	CMA	5/17/17 21:56	CGS A
Phenol-d5 (S)	74.7		%	35 - 111		SW846 8270D	5/16/17 04:30	CMA	5/17/17 21:56	CGS A
Terphenyl-d14 (S)	92.7		%	45 - 126		SW846 8270D	5/16/17 04:30	CMA	5/17/17 21:56	CGS A
<b>PESTICIDES</b>										
Aldrin	ND		ug/kg	74.3	24.0	SW846 8081B	5/17/17 03:10	CMA	5/17/17 23:27	RWS A
alpha-BHC	ND		ug/kg	74.3	6.6	SW846 8081B	5/17/17 03:10	CMA	5/17/17 23:27	RWS A
beta-BHC	65.1J	J	ug/kg	74.3	7.9	SW846 8081B	5/17/17 03:10	CMA	5/17/17 23:27	RWS A
delta-BHC	ND		ug/kg	74.3	5.7	SW846 8081B	5/17/17 03:10	CMA	5/17/17 23:27	RWS A
gamma-BHC	22.6J	J	ug/kg	74.3	6.1	SW846 8081B	5/17/17 03:10	CMA	5/17/17 23:27	RWS A
alpha-Chlordane	ND		ug/kg	74.3	7.9	SW846 8081B	5/17/17 03:10	CMA	5/17/17 23:27	RWS A
gamma-Chlordane	ND		ug/kg	74.3	12.7	SW846 8081B	5/17/17 03:10	CMA	5/17/17 23:27	RWS A
4,4'-DDD	ND		ug/kg	144	11.8	SW846 8081B	5/17/17 03:10	CMA	5/17/17 23:27	RWS A
4,4'-DDE	ND		ug/kg	144	19.7	SW846 8081B	5/17/17 03:10	CMA	5/17/17 23:27	RWS A
4,4'-DDT	ND		ug/kg	144	16.6	SW846 8081B	5/17/17 03:10	CMA	5/17/17 23:27	RWS A
Dieldrin	ND		ug/kg	144	16.6	SW846 8081B	5/17/17 03:10	CMA	5/17/17 23:27	RWS A
Endosulfan I	ND		ug/kg	74.3	9.2	SW846 8081B	5/17/17 03:10	CMA	5/17/17 23:27	RWS A
Endosulfan II	ND		ug/kg	144	30.2	SW846 8081B	5/17/17 03:10	CMA	5/17/17 23:27	RWS A
Endosulfan Sulfate	ND		ug/kg	144	9.6	SW846 8081B	5/17/17 03:10	CMA	5/17/17 23:27	RWS A
Endrin	ND		ug/kg	144	10.5	SW846 8081B	5/17/17 03:10	CMA	5/17/17 23:27	RWS A
Endrin Aldehyde	ND		ug/kg	144	15.7	SW846 8081B	5/17/17 03:10	CMA	5/17/17 23:27	RWS A
Endrin Ketone	ND		ug/kg	144	20.1	SW846 8081B	5/17/17 03:10	CMA	5/17/17 23:27	RWS A
Heptachlor	ND		ug/kg	74.3	7.4	SW846 8081B	5/17/17 03:10	CMA	5/17/17 23:27	RWS A
Heptachlor Epoxide	ND		ug/kg	74.3	7.4	SW846 8081B	5/17/17 03:10	CMA	5/17/17 23:27	RWS A
Methoxychlor	ND		ug/kg	144	19.2	SW846 8081B	5/17/17 03:10	CMA	5/17/17 23:27	RWS A
Toxaphene	ND		ug/kg	1530	254	SW846 8081B	5/17/17 03:10	CMA	5/17/17 23:27	RWS A
<b>Surrogate Recoveries</b>										
Decachlorobiphenyls (S)	73.8		%	30 - 135		SW846 8081B	5/17/17 03:10	CMA	5/17/17 23:27	RWS A
Tetrachloro-m-xylene (S)	58.2		%	30 - 111		SW846 8081B	5/17/17 03:10	CMA	5/17/17 23:27	RWS A
<b>WET CHEMISTRY</b>										
Cyanide, Total	3.4		mg/kg	0.85	0.30	SW846 9012B	5/15/17 13:30	CTD	5/15/17 16:16	CTD A
Hexane Extractable Material	78900		mg/kg	711	200	SW846 9071B			5/17/17 06:30	MPP A
Moisture	71.9		%	0.1	0.01	S2540G-11			5/13/17 17:56	MLM A

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**ANALYTICAL RESULTS**

Workorder: 2229337 Biosolids 05/11/17

 Lab ID: **2229337001** Date Collected: 5/10/2017 10:00 Matrix: Solid  
 Sample ID: **Digest BFP BOCA 2nd Qtr 2017** Date Received: 5/11/2017 21:15

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Phenolics	140		mg/kg	8.9	3	SW846 9066	5/25/17 09:30 JAL	5/30/17 14:00	SEH	A
Silica Gel Treated HEM	10300		mg/kg	711	200	SW846 9071B		5/17/17 06:30	MPP	A
Total Solids	28.1		%	0.1	0.01	S2540G-11		5/13/17 17:56	MLM	A



 Ms. Amy K Borden  
 Project Coordinator

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**PARAMETER QUALIFIERS**

Lab ID	#	Sample ID	Analytical Method	Analyte
<b>2229337001</b>	1	Digest BFP BOCA 2nd Qtr 2017	SW846 8260B	Acetone
The QC sample type LCS for method SW846 8260B was outside the control limits for the analyte Acetone. The % Recovery was reported as 151 and the control limits were 58 to 146.				
<b>2229337001</b>	2	Digest BFP BOCA 2nd Qtr 2017	SW846 8260B	Acetone
The QC sample type LCSD for method SW846 8260B was outside the control limits for the analyte Acetone. The % Recovery was reported as 195 and the control limits were 58 to 146.				
<b>2229337001</b>	3	Digest BFP BOCA 2nd Qtr 2017	SW846 8260B	Methylene Chloride
The Method Blank for method SW846 8260B reported a value greater than the reporting level for the analyte Methylene Chloride.				
<b>2229337001</b>	4	Digest BFP BOCA 2nd Qtr 2017	SW846 8260B	Methylene Chloride
The QC sample type LCS for method SW846 8260B was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 162 and the control limits were 68 to 133.				
<b>2229337001</b>	5	Digest BFP BOCA 2nd Qtr 2017	SW846 8260B	Methylene Chloride
The QC sample type LCSD for method SW846 8260B was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 210 and the control limits were 68 to 133.				
<b>2229337001</b>	6	Digest BFP BOCA 2nd Qtr 2017	SW846 8260B	Carbon Disulfide
The QC sample type LCSD for method SW846 8260B was outside the control limits for the analyte Carbon Disulfide. The % Recovery was reported as 169 and the control limits were 47 to 144.				

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**Analytical Laboratory Services, Inc.**  
Environmental w/ Industrial Hygiene w/ Field Services

34 Dogwood Lane w/ Middletown, PA 17057 w/ 717.944.5541 w/ Fax: 717.944.1430

**CHAIN OF CUSTODY/  
REQUEST FOR ANALYSIS**  
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/  
SAMPLER. INSTRUCTIONS ON THE BACK.

Generated by ALSI

COC  
ALSI



ZXZX  
of  
XYXY  
\* 2 2 9 3 3 7 \*

Client Name: DCWASA-OTHER  
Address: 5000 Overlook Ave, SW  
Washington, D.C. 20032  
Contact: Elaine Wilson  
Phone#: 202-787-4177  
Project Name#: Bto/Quarterly  
Bill To: Accounts Payable Office- 4th Floor  
TAT  Normal-Standard TAT is 10-12 business days.  
 Rush-Subject to ALSI approval and surcharges.  
Date Required: \_\_\_\_\_ Approved By: \_\_\_\_\_  
Email?  -Y  -N  
Fax?  -Y  -N

Sample Description/Location: \_\_\_\_\_ Sample Date: 5/10/17 Time: 1000  
(as it will appear on the lab report)

Digest BFP BOCA 2nd Qtr 2017

Container Type/Size/Preservative	CG	CG	CG	AG	AG	AG	AG	AG	AG
8 OZ	8 OZ	4 oz	8 OZ	8 OZ	8 OZ	8 OZ	8 OZ	8 OZ	8 OZ
None	None	None	None	None	None	None	None	None	None

**ANALYSES/METHOD REQUESTED**

Matrix	Enter Number of Containers	Per Sample or Field Results Below.
Cyanide, % solids	1	1
TPH & O&G- SW 846-9071	1	1
VOC (SW846-8260) including TCDD dioxin (see comments)	1*	1
Pesticides (SW846-8081)	1	1
Phenols (SW846-9065, Asbestos)	1	1

Receipt Information (Completed by Receiving Lab)  
Cooler Temp: 1 C Therm ID: 318  
No. of Coolers: Y N Initial: *Edw*

Custody Seals Present? (if present) Seals Intact?  
Received on Ice?  
COCLabels Complete/Accurate?  
Cont. in Good Cond.?  
Correct Containers?  
Correct Sample Volumes?  
Correct Preservation?  
Headspace/Volatiles?

Courier/Tracking #: \_\_\_\_\_ Sample/COC Comments: \*plus hexachlorobenzene, hexachlorobutadiene and toxaphene

ALSI Field Services:  Pickup  Labor  Composite Sampling  Rental Equipment  Other:

Special Processing: USACE  Navy  State Samples Collected In: NY  NJ  PA  NC

Deliverables: Standard  CLP-like  USACE  Reportable to PADEP? Yes  PWSID #: \_\_\_\_\_  
EDOS: Format Type: \_\_\_\_\_

Project Comments: \*Run % solids and report data as mg/kg dry weight  
LOGGED BY (signature): \_\_\_\_\_  
REVIEWED BY (signature): \_\_\_\_\_

Requisitioned By / Company Name	Date	Time	Received By / Company Name	Date	Time
<i>Edw Wilson</i>	5-11-17	1345	<i>Edw Wilson</i>	5/11	1345
<i>Edw Wilson</i>	5/11	2105	<i>Edw Wilson</i>	5/11	2105

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September 12, 2017

Ms. Elaine Wilson  
DC WASA  
5000 Overlook Avenue, S.W.  
Washington, DC 20032

## Certificate of Analysis

Project Name:	<b>Biosolids 08/31/17</b>	Workorder:	<b>2258377</b>
Purchase Order:	<b>170211</b>	Workorder ID:	<b>Biosolids 08/31/17</b>

Dear Ms. Wilson:

Enclosed are the analytical results for samples received by the laboratory on Thursday, August 31, 2017.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Amy K Borden (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at [www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads](http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads).

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Mr. Ryan Maisano, Mr. Mark Ramirez, Accounts Payable-4th Floor

*This page is included as part of the Analytical Report and must be retained as a permanent record thereof.*

Ms. Amy K Borden  
Project Coordinator

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### SAMPLE SUMMARY

Workorder: 2258377 Biosolids 08/31/17

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2258377001	Digest BFP BOC 3rd Qtr 2017	Solid	8/31/2017 10:45	8/31/2017 22:30	Collected by Client

#### Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.

#### Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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## PROJECT SUMMARY

Workorder: 2258377 Biosolids 08/31/17

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### Sample Comments

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**Lab ID:** 2258377001

**Sample ID:** Digest BFP BOC 3rd  
Qtr 2017

**Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

This sample was collected in a soil jar for the volatile analysis. The sample was prepared by Method 5035 after the 48-hour holding time.

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**ANALYTICAL RESULTS**

Workorder: 2258377 Biosolids 08/31/17

 Lab ID: **2258377001** Date Collected: 8/31/2017 10:45 Matrix: Solid  
 Sample ID: **Digest BFP BOC 3rd Qtr 2017** Date Received: 8/31/2017 22:30

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Acetone	6360		ug/kg	74.7	34.3	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
Benzene	11.1J	J	ug/kg	14.9	3.7	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
Bromochloromethane	ND		ug/kg	14.9	3.7	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
Bromodichloromethane	ND		ug/kg	14.9	5.3	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
Bromoform	ND		ug/kg	14.9	3.9	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
Bromomethane	ND		ug/kg	14.9	3.9	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
2-Butanone	2100		ug/kg	74.7	23.9	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
Carbon Disulfide	49.5		ug/kg	14.9	4.7	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
Carbon Tetrachloride	ND		ug/kg	14.9	3.8	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
Chlorobenzene	ND		ug/kg	14.9	3.8	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
Chlorodibromomethane	ND		ug/kg	14.9	5.1	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
Chloroethane	ND		ug/kg	37.3	6.3	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
Chloroform	ND		ug/kg	14.9	4.0	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
Chloromethane	ND		ug/kg	14.9	4.1	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
1,2-Dibromo-3-chloropropane	ND		ug/kg	37.3	21.7	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
1,2-Dibromoethane	ND		ug/kg	14.9	4.0	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
1,1-Dichloroethane	ND		ug/kg	14.9	3.7	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
1,2-Dichloroethane	ND		ug/kg	14.9	3.7	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
1,1-Dichloroethene	ND		ug/kg	14.9	3.9	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
cis-1,2-Dichloroethene	ND		ug/kg	14.9	3.7	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
trans-1,2-Dichloroethene	ND		ug/kg	14.9	3.9	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
1,2-Dichloropropane	ND		ug/kg	14.9	4.5	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
cis-1,3-Dichloropropene	ND		ug/kg	14.9	4.1	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
trans-1,3-Dichloropropene	ND		ug/kg	14.9	4.3	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
Ethylbenzene	ND		ug/kg	14.9	5.1	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
2-Hexanone	ND		ug/kg	74.7	20.9	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
4-Methyl-2-Pentanone(MIBK)	ND		ug/kg	74.7	28.4	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
Methylene Chloride	44.4	1,2,3	ug/kg	14.9	5.8	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
Styrene	ND		ug/kg	14.9	3.7	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
1,1,2,2-Tetrachloroethane	ND		ug/kg	14.9	4.2	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
Tetrachloroethene	ND		ug/kg	14.9	4.5	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
Toluene	134		ug/kg	14.9	5.0	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
Total Xylenes	64.0		ug/kg	44.8	10.5	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
1,1,1-Trichloroethane	ND		ug/kg	14.9	4.6	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
1,1,2-Trichloroethane	ND		ug/kg	14.9	4.2	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2

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**ANALYTICAL RESULTS**

Workorder: 2258377 Biosolids 08/31/17

Lab ID: **2258377001** Date Collected: 8/31/2017 10:45 Matrix: Solid  
Sample ID: **Digest BFP BOC 3rd Qtr 2017** Date Received: 8/31/2017 22:30

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Trichloroethene	ND		ug/kg	14.9	3.7	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
Vinyl Chloride	ND		ug/kg	14.9	3.7	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
o-Xylene	ND		ug/kg	14.9	4.3	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
mp-Xylene	64.0		ug/kg	29.9	6.2	SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
1,2-Dichloroethane-d4 (S)	96.1		%	56 - 124		SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
4-Bromofluorobenzene (S)	95.1		%	51 - 128		SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
Dibromofluoromethane (S)	108		%	62 - 123		SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
Toluene-d8 (S)	98		%	59 - 131		SW846 8260B	9/6/17 13:19	TMP	9/6/17 18:01	TMP A2
<b>DIOXIN SCREEN</b>										
2,3,7,8-TCDD	ND	4	ug/kg	308	308	SW846 8270D	9/5/17 03:25	CMA	9/6/17 20:24	CGS A
<b>SEMIVOLATILES</b>										
Acenaphthene	ND		ug/kg	2200	264	SW846 8270D	9/5/17 03:25	CMA	9/5/17 14:22	CGS A
Acenaphthylene	ND		ug/kg	2200	308	SW846 8270D	9/5/17 03:25	CMA	9/5/17 14:22	CGS A
Anthracene	ND		ug/kg	2200	352	SW846 8270D	9/5/17 03:25	CMA	9/5/17 14:22	CGS A
Benzo(a)anthracene	ND		ug/kg	2200	220	SW846 8270D	9/5/17 03:25	CMA	9/5/17 14:22	CGS A
Benzo(a)pyrene	ND		ug/kg	2200	176	SW846 8270D	9/5/17 03:25	CMA	9/5/17 14:22	CGS A
Benzo(b)fluoranthene	ND		ug/kg	2200	220	SW846 8270D	9/5/17 03:25	CMA	9/5/17 14:22	CGS A
Benzo(g,h,i)perylene	ND		ug/kg	2200	220	SW846 8270D	9/5/17 03:25	CMA	9/5/17 14:22	CGS A
Benzo(k)fluoranthene	ND		ug/kg	2200	220	SW846 8270D	9/5/17 03:25	CMA	9/5/17 14:22	CGS A
4-Bromophenyl-phenylether	ND		ug/kg	4400	396	SW846 8270D	9/5/17 03:25	CMA	9/5/17 14:22	CGS A
Butylbenzylphthalate	2220J	J	ug/kg	4400	308	SW846 8270D	9/5/17 03:25	CMA	9/5/17 14:22	CGS A
Carbazole	ND		ug/kg	4400	308	SW846 8270D	9/5/17 03:25	CMA	9/5/17 14:22	CGS A
4-Chloro-3-methylphenol	ND		ug/kg	8790	440	SW846 8270D	9/5/17 03:25	CMA	9/5/17 14:22	CGS A
4-Chloroaniline	ND		ug/kg	8790	528	SW846 8270D	9/5/17 03:25	CMA	9/5/17 14:22	CGS A
bis(2-Chloroethoxy)methane	ND		ug/kg	4400	396	SW846 8270D	9/5/17 03:25	CMA	9/5/17 14:22	CGS A
bis(2-Chloroethyl)ether	ND		ug/kg	4400	572	SW846 8270D	9/5/17 03:25	CMA	9/5/17 14:22	CGS A
bis(2-Chloroisopropyl)ether	ND		ug/kg	4400	659	SW846 8270D	9/5/17 03:25	CMA	9/5/17 14:22	CGS A
2-Chloronaphthalene	ND		ug/kg	4400	264	SW846 8270D	9/5/17 03:25	CMA	9/5/17 14:22	CGS A
2-Chlorophenol	ND		ug/kg	8790	352	SW846 8270D	9/5/17 03:25	CMA	9/5/17 14:22	CGS A
4-Chlorophenyl-phenylether	ND		ug/kg	4400	352	SW846 8270D	9/5/17 03:25	CMA	9/5/17 14:22	CGS A
Chrysene	ND		ug/kg	2200	220	SW846 8270D	9/5/17 03:25	CMA	9/5/17 14:22	CGS A
mp-Cresol	738J	J	ug/kg	8790	352	SW846 8270D	9/5/17 03:25	CMA	9/5/17 14:22	CGS A
o-Cresol	ND		ug/kg	8790	484	SW846 8270D	9/5/17 03:25	CMA	9/5/17 14:22	CGS A
Di-n-Butylphthalate	ND		ug/kg	4400	352	SW846 8270D	9/5/17 03:25	CMA	9/5/17 14:22	CGS A
Di-n-Octylphthalate	ND		ug/kg	4400	308	SW846 8270D	9/5/17 03:25	CMA	9/5/17 14:22	CGS A
Dibenzo(a,h)anthracene	ND		ug/kg	2200	264	SW846 8270D	9/5/17 03:25	CMA	9/5/17 14:22	CGS A

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**ANALYTICAL RESULTS**

Workorder: 2258377 Biosolids 08/31/17

 Lab ID: **2258377001** Date Collected: 8/31/2017 10:45 Matrix: Solid  
 Sample ID: **Digest BFP BOC 3rd Qtr 2017** Date Received: 8/31/2017 22:30

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Dibenzofuran	ND		ug/kg	4400	352	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
1,2-Dichlorobenzene	ND		ug/kg	4400	396	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
1,3-Dichlorobenzene	ND		ug/kg	4400	308	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
1,4-Dichlorobenzene	ND		ug/kg	4400	308	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
3,3-Dichlorobenzidine	ND		ug/kg	8790	1670	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
2,4-Dichlorophenol	ND		ug/kg	8790	352	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
Diethylphthalate	ND		ug/kg	4400	352	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
2,4-Dimethylphenol	ND		ug/kg	8790	659	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
Dimethylphthalate	ND		ug/kg	4400	308	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
2,4-Dinitrophenol	ND		ug/kg	8790	1760	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
2,4-Dinitrotoluene	ND		ug/kg	4400	396	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
2,6-Dinitrotoluene	ND		ug/kg	4400	528	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
bis(2-Ethylhexyl)phthalate	37600		ug/kg	4400	308	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
Fluoranthene	682J	J	ug/kg	2200	220	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
Fluorene	498J	J	ug/kg	2200	264	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
Hexachlorobenzene	ND		ug/kg	4400	484	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
Hexachlorobutadiene	ND		ug/kg	4400	440	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
Hexachlorocyclopentadiene	ND		ug/kg	8790	484	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
Hexachloroethane	ND		ug/kg	4400	396	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
Indeno(1,2,3-cd)pyrene	ND		ug/kg	2200	308	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
Isophorone	ND		ug/kg	4400	264	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
2-Methyl-4,6-dinitrophenol	ND		ug/kg	8790	1140	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
2-Methylnaphthalene	871J	J	ug/kg	4400	220	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
Naphthalene	ND		ug/kg	2200	264	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
2-Nitroaniline	ND		ug/kg	8790	528	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
3-Nitroaniline	ND		ug/kg	8790	879	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
4-Nitroaniline	ND		ug/kg	8790	352	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
Nitrobenzene	ND		ug/kg	4400	528	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
2-Nitrophenol	ND		ug/kg	8790	484	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
4-Nitrophenol	ND		ug/kg	8790	616	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
N-Nitrosodimethylamine	ND		ug/kg	4400	659	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
N-Nitroso-di-n-propylamine	ND		ug/kg	4400	352	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
N-Nitrosodiphenylamine	ND		ug/kg	4400	352	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
Pentachlorophenol	ND		ug/kg	8790	1140	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
Phenanthrene	837J	J	ug/kg	2200	220	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
Phenol	26900		ug/kg	8790	440	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
Pyrene	795J	J	ug/kg	2200	220	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A
1,2,4-Trichlorobenzene	ND		ug/kg	4400	264	SW846 8270D	9/5/17 03:25	CMA 9/5/17 14:22	CGS	A

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**ANALYTICAL RESULTS**

Workorder: 2258377 Biosolids 08/31/17

 Lab ID: **2258377001** Date Collected: 8/31/2017 10:45 Matrix: Solid  
 Sample ID: **Digest BFP BOC 3rd Qtr 2017** Date Received: 8/31/2017 22:30

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
2,4,5-Trichlorophenol	ND		ug/kg	8790	528	SW846 8270D	9/5/17 03:25 CMA	9/5/17 14:22	CGS	A	
2,4,6-Trichlorophenol	ND		ug/kg	8790	528	SW846 8270D	9/5/17 03:25 CMA	9/5/17 14:22	CGS	A	
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	73.1		%	19 - 132		SW846 8270D	9/5/17 03:25 CMA	9/5/17 14:22	CGS	A	
2-Fluorobiphenyl (S)	80.7		%	40 - 110		SW846 8270D	9/5/17 03:25 CMA	9/5/17 14:22	CGS	A	
2-Fluorophenol (S)	72.4		%	26 - 116		SW846 8270D	9/5/17 03:25 CMA	9/5/17 14:22	CGS	A	
Nitrobenzene-d5 (S)	76.9		%	38 - 112		SW846 8270D	9/5/17 03:25 CMA	9/5/17 14:22	CGS	A	
Phenol-d5 (S)	74.4		%	35 - 111		SW846 8270D	9/5/17 03:25 CMA	9/5/17 14:22	CGS	A	
Terphenyl-d14 (S)	89.5		%	45 - 126		SW846 8270D	9/5/17 03:25 CMA	9/5/17 14:22	CGS	A	
<b>PESTICIDES</b>											
Aldrin	ND		ug/kg	68.4	22.1	SW846 8081B	9/5/17 00:05 CMA	9/6/17 00:14	RWS	A	
alpha-BHC	ND		ug/kg	68.4	6.0	SW846 8081B	9/5/17 00:05 CMA	9/6/17 00:14	RWS	A	
beta-BHC	ND		ug/kg	68.4	7.2	SW846 8081B	9/5/17 00:05 CMA	9/6/17 00:14	RWS	A	
delta-BHC	ND		ug/kg	68.4	5.2	SW846 8081B	9/5/17 00:05 CMA	9/6/17 00:14	RWS	A	
gamma-BHC	ND		ug/kg	68.4	5.6	SW846 8081B	9/5/17 00:05 CMA	9/6/17 00:14	RWS	A	
alpha-Chlordane	8.2J	J	ug/kg	68.4	7.2	SW846 8081B	9/5/17 00:05 CMA	9/6/17 00:14	RWS	A	
gamma-Chlordane	ND		ug/kg	68.4	11.7	SW846 8081B	9/5/17 00:05 CMA	9/6/17 00:14	RWS	A	
4,4'-DDD	ND		ug/kg	133	10.9	SW846 8081B	9/5/17 00:05 CMA	9/6/17 00:14	RWS	A	
4,4'-DDE	ND		ug/kg	133	18.1	SW846 8081B	9/5/17 00:05 CMA	9/6/17 00:14	RWS	A	
4,4'-DDT	ND		ug/kg	133	15.3	SW846 8081B	9/5/17 00:05 CMA	9/6/17 00:14	RWS	A	
Dieldrin	ND		ug/kg	133	15.3	SW846 8081B	9/5/17 00:05 CMA	9/6/17 00:14	RWS	A	
Endosulfan I	ND		ug/kg	68.4	8.5	SW846 8081B	9/5/17 00:05 CMA	9/6/17 00:14	RWS	A	
Endosulfan II	ND		ug/kg	133	27.8	SW846 8081B	9/5/17 00:05 CMA	9/6/17 00:14	RWS	A	
Endosulfan Sulfate	ND		ug/kg	133	8.9	SW846 8081B	9/5/17 00:05 CMA	9/6/17 00:14	RWS	A	
Endrin	ND		ug/kg	133	9.7	SW846 8081B	9/5/17 00:05 CMA	9/6/17 00:14	RWS	A	
Endrin Aldehyde	ND		ug/kg	133	14.5	SW846 8081B	9/5/17 00:05 CMA	9/6/17 00:14	RWS	A	
Endrin Ketone	ND		ug/kg	133	18.5	SW846 8081B	9/5/17 00:05 CMA	9/6/17 00:14	RWS	A	
Heptachlor	ND		ug/kg	68.4	6.8	SW846 8081B	9/5/17 00:05 CMA	9/6/17 00:14	RWS	A	
Heptachlor Epoxide	ND		ug/kg	68.4	6.8	SW846 8081B	9/5/17 00:05 CMA	9/6/17 00:14	RWS	A	
Methoxychlor	ND		ug/kg	133	17.7	SW846 8081B	9/5/17 00:05 CMA	9/6/17 00:14	RWS	A	
Toxaphene	ND		ug/kg	1410	233	SW846 8081B	9/5/17 00:05 CMA	9/6/17 00:14	RWS	A	
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Decachlorobiphenyls (S)	74.3		%	30 - 135		SW846 8081B	9/5/17 00:05 CMA	9/6/17 00:14	RWS	A	
Tetrachloro-m-xylene (S)	64.9		%	30 - 111		SW846 8081B	9/5/17 00:05 CMA	9/6/17 00:14	RWS	A	
<b>WET CHEMISTRY</b>											
Cyanide, Total	1.6		mg/kg	0.78	0.28	SW846 9012B	9/11/17 17:10 AHI	9/12/17 06:21	KXK	A	

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### ANALYTICAL RESULTS

Workorder: 2258377 Biosolids 08/31/17

Lab ID: <b>2258377001</b>	Date Collected: 8/31/2017 10:45	Matrix: Solid
Sample ID: <b>Digest BFP BOC 3rd Qtr 2017</b>	Date Received: 8/31/2017 22:30	

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Hexane Extractable Material	60800		mg/kg	633	200	SW846 9071B		9/7/17 06:30	MPP	A
Moisture	68.4		%	0.1	0.01	S2540G-11		9/5/17 10:11	AXD	A
Silica Gel Treated HEM	12900		mg/kg	633	100	SW846 9071B		9/7/17 06:30	MPP	A
Total Solids	31.6		%	0.1	0.01	S2540G-11		9/5/17 10:11	AXD	A



Ms. Amy K Borden  
Project Coordinator

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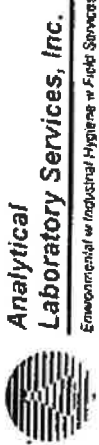


**PARAMETER QUALIFIERS**

Lab ID	#	Sample ID	Analytical Method	Analyte
<b>2258377001</b>	1	Digest BFP BOC 3rd Qtr 2017	SW846 8260B	Methylene Chloride
The Method Blank for method SW846 8260B reported a value greater than the reporting level for the analyte Methylene Chloride.				
<b>2258377001</b>	2	Digest BFP BOC 3rd Qtr 2017	SW846 8260B	Methylene Chloride
The QC sample type LCS for method SW846 8260B was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 148 and the control limits were 68 to 133.				
<b>2258377001</b>	3	Digest BFP BOC 3rd Qtr 2017	SW846 8260B	Methylene Chloride
The QC sample type LCSD for method SW846 8260B was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 152 and the control limits were 68 to 133.				
<b>2258377001</b>	4	Digest BFP BOC 3rd Qtr 2017	SW846 8270D	2,3,7,8-TCDD
A SIM screen analysis was run for Dioxin and no peaks were observed.				

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340 Dogwood Lane w Middletown, PA 17057 w 717.944.5541 w Fax 717.944.1430

**CHAIN OF CUSTODY/  
REQUEST FOR ANALYSIS**  
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/  
SAMPLER. INSTRUCTIONS ON THE BACK.

Generated by ALS  
ZXXZ  
of  
XYXY  
17  
\* 2 5 8 3 7 7 \*

Client Name: District of Columbia Water and Sewer Authority  
Address: 5000 Overlook Ave, SW  
Washington, D.C. 20032

Contact: Mark Ramirez  
Phone#: 202-787-4002

Project Name#: Bio/Quarterly  
Bill To: Accounts Payable Office-4th Floor

TAT  
Normal-Standard TAT is 10-12 business days.  
Rush-Subject to ALSI approval and surcharges.

Date Required: \_\_\_\_\_ Approved By: \_\_\_\_\_  
Email?  -Y  -N  
Fax?  -Y No:  -N

Container Type	CG	CG	CG	CG	AG	AG
Container Size	8 OZ	8 OZ	8 OZ	8 OZ	8oz	8oz
Preservative	None	None	None	None	None	None

ANALYSES/METHOD REQUESTED		Enter Number of Containers Per Sample or Field Results Below.	
Cyanide, % solids	Total O&G plus TPH - SW9071	1	1
VOC (SW 8260)	semi-volatiles (SW846-8270) - including TCDD dioxin (see comments)	1*	1
Pesticides (SW846-8081)			

Matrix	G or C	Sample Date	Time	Received By / Company Name	Date	Time
Digest BFP BOC 3rd Qtr 2017	G SL	8/31/2017	1045	[Signature]	8/31	1530
				[Signature]	8/31	1530
				[Signature]	8/31	1530

Project Comments: \*Run % solids and report data as mg/kg dry weight  
LOGGED BY (signature): \_\_\_\_\_  
REVIEWED BY (signature): \_\_\_\_\_

Requester By / Company Name	Date	Time	Received By / Company Name	Date	Time
[Signature]	8/31	1530	[Signature]	8/31	1530
[Signature]	8/31	1530	[Signature]	8/31	1530
[Signature]	8/31	1530	[Signature]	8/31	1530

Cooler Temp: 49C Therm ID: 309  
No. of Coolers: 1 Y N Initial: [Signature]

Custody Seals Present?   
(if present) Seals Intact?   
Received on Ice?   
COC Labels Completed/Accurate?   
Cont. In Good Cond.?   
Correct Containers?   
Correct Sample Volumes?   
Correct Preservation?   
Headspace/Volatiles?

Courier/Tracking #: \_\_\_\_\_  
Sample/COC Comments:  
\*plus hexachlorobenzene, hexachlorobutadiene  
and toxaphene

ALSI Field Services: oPickup oLabor oComposite Sampling oRental Equipment oOther: \_\_\_\_\_

Standard	Special Processing	State Samples Collected In
<input type="checkbox"/> Standard	<input type="checkbox"/> USACE	<input type="checkbox"/> NY
<input type="checkbox"/> CLP-like	<input type="checkbox"/> Navy	<input type="checkbox"/> NJ
<input type="checkbox"/> USACE	<input type="checkbox"/> Sample Disposal	<input type="checkbox"/> PA
<input type="checkbox"/> Reportable to PADEP?	<input type="checkbox"/> Lab	<input type="checkbox"/> NC
Yes <input type="checkbox"/>	<input type="checkbox"/> Special	<input type="checkbox"/>
PWSID # _____		
EDDS: Fomel Type: _____		

G=Grab; C=Composite  
Matrix: A=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WM=Wastewater  
Copies: WHITE - ORIGINAL CANARY - CUSTOMER MAILING PINK - FILE GOLDENROD - CUSTOMER COPY  
Rev 8/04



December 8, 2017

Ms. Elaine Wilson  
DC WASA  
5000 Overlook Avenue, S.W.  
Washington, DC 20032

## Certificate of Analysis

Project Name: <b>Biosolids 11/29/17</b>	Workorder: <b>2280205</b>
Purchase Order: <b>180018</b>	Workorder ID: <b>Biosolids 11/29/17</b>

Dear Ms. Wilson:

Enclosed are the analytical results for samples received by the laboratory on Thursday, November 30, 2017.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Amy K Borden (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at [www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads](http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads).

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Mr. Ryan Maisano, Mr. Mark Ramirez, Accounts Payable-4th Floor

*This page is included as part of the Analytical Report and must be retained as a permanent record thereof.*

Ms. Amy K Borden  
Project Coordinator

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### SAMPLE SUMMARY

Workorder: 2280205 Biosolids 11/29/17

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2280205001	17-4th Qtr - Digest BFP BOC	Solid	11/29/2017 12:15	11/30/2017 22:00	Collected by Client

**Notes**

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.

**Standard Acronyms/Flags**

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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### PROJECT SUMMARY

Workorder: 2280205 Biosolids 11/29/17

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#### Sample Comments

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**Lab ID:** 2280205001

**Sample ID:** 17-4th Qtr - Digest BFP  
BOC

**Sample Type:** SAMPLE

This sample was collected in a soil jar for the volatile analysis. The sample was prepared by Method 5035 after the 48-hour holding time.

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

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**ANALYTICAL RESULTS**

Workorder: 2280205 Biosolids 11/29/17

Lab ID: **2280205001** Date Collected: 11/29/2017 12:15 Matrix: Solid  
Sample ID: **17-4th Qtr - Digest BFP BOC** Date Received: 11/30/2017 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	11.2J	J	ug/kg	16.3	4.1	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
Bromochloromethane	ND		ug/kg	16.3	4.1	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
Bromodichloromethane	ND		ug/kg	16.3	5.8	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
Bromoform	ND		ug/kg	16.3	4.2	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
Bromomethane	ND		ug/kg	16.3	4.2	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
2-Butanone	2830		ug/kg	81.4	26.0	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
Carbon Disulfide	86.5		ug/kg	16.3	5.1	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
Carbon Tetrachloride	ND		ug/kg	16.3	4.1	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
Chlorobenzene	ND		ug/kg	16.3	4.1	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
Chlorodibromomethane	ND		ug/kg	16.3	5.5	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
Chloroethane	ND		ug/kg	40.7	6.9	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
Chloroform	ND		ug/kg	16.3	4.3	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
Chloromethane	4.5J	J	ug/kg	16.3	4.5	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
1,2-Dibromo-3-chloropropane	ND		ug/kg	40.7	23.6	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
1,2-Dibromoethane	ND		ug/kg	16.3	4.4	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
1,1-Dichloroethane	ND		ug/kg	16.3	4.1	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
1,2-Dichloroethane	ND		ug/kg	16.3	4.1	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
1,1-Dichloroethene	ND		ug/kg	16.3	4.2	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
cis-1,2-Dichloroethene	ND		ug/kg	16.3	4.1	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
trans-1,2-Dichloroethene	ND		ug/kg	16.3	4.2	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
1,2-Dichloropropane	ND		ug/kg	16.3	4.9	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
cis-1,3-Dichloropropene	ND		ug/kg	16.3	4.5	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
trans-1,3-Dichloropropene	ND		ug/kg	16.3	4.7	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
Ethylbenzene	8.4J	J	ug/kg	16.3	5.5	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
2-Hexanone	ND		ug/kg	81.4	22.8	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
4-Methyl-2-Pentanone(MIBK)	ND		ug/kg	81.4	30.9	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
Methylene Chloride	125	5,6,7	ug/kg	16.3	6.3	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
Styrene	ND		ug/kg	16.3	4.1	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
1,1,2,2-Tetrachloroethane	ND		ug/kg	16.3	4.6	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
Tetrachloroethene	ND		ug/kg	16.3	4.9	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
Toluene	81.8		ug/kg	16.3	5.5	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
Total Xylenes	93.1		ug/kg	48.8	11.4	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
1,1,1-Trichloroethane	ND		ug/kg	16.3	5.0	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
1,1,2-Trichloroethane	ND		ug/kg	16.3	4.6	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2
Trichloroethene	17.5		ug/kg	16.3	4.1	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2

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**ANALYTICAL RESULTS**

Workorder: 2280205 Biosolids 11/29/17

 Lab ID: **2280205001** Date Collected: 11/29/2017 12:15 Matrix: Solid  
 Sample ID: **17-4th Qtr - Digest BFP BOC** Date Received: 11/30/2017 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr	
Vinyl Chloride	ND		ug/kg	16.3	4.1	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2	
o-Xylene	ND		ug/kg	16.3	4.7	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2	
mp-Xylene	93.1		ug/kg	32.5	6.8	SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2	
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	107		%	56 - 124		SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2	
4-Bromofluorobenzene (S)	111		%	51 - 128		SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2	
Dibromofluoromethane (S)	122		%	62 - 123		SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2	
Toluene-d8 (S)	108		%	59 - 131		SW846 8260B	12/5/17 11:01 PDK	12/5/17 18:10	TMP	C2	
<b>SEMIVOLATILES</b>											
Acenaphthene	52.4J	J	ug/kg	164	19.6	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A	
Acenaphthylene	ND		ug/kg	164	22.9	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A	
Anthracene	ND		ug/kg	164	26.2	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A	
Benzo(a)anthracene	ND		ug/kg	164	16.4	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A	
Benzo(a)pyrene	ND		ug/kg	164	13.1	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A	
Benzo(b)fluoranthene	119J	J	ug/kg	164	16.4	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A	
Benzo(g,h,i)perylene	ND		ug/kg	164	16.4	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A	
Benzo(k)fluoranthene	48.3J	J	ug/kg	164	16.4	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A	
4-Bromophenyl-phenylether	ND		ug/kg	327	29.5	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A	
Butylbenzylphthalate	556		ug/kg	327	22.9	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A	
Carbazole	239J	J	ug/kg	327	22.9	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A	
4-Chloro-3-methylphenol	ND		ug/kg	655	32.7	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A	
4-Chloroaniline	315J	J	ug/kg	655	39.3	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A	
bis(2-Chloroethoxy)methane	ND		ug/kg	327	29.5	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A	
bis(2-Chloroethyl)ether	ND		ug/kg	327	42.6	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A	
bis(2-Chloroisopropyl)ether	ND		ug/kg	327	49.1	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A	
2-Chloronaphthalene	ND		ug/kg	327	19.6	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A	
2-Chlorophenol	ND		ug/kg	655	26.2	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A	
4-Chlorophenyl-phenylether	ND		ug/kg	327	26.2	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A	
Chrysene	96.9J	J	ug/kg	164	16.4	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A	
mp-Cresol	1300		ug/kg	655	26.2	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A	
o-Cresol	ND		ug/kg	655	36.0	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A	
Di-n-Butylphthalate	282J	J	ug/kg	327	26.2	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A	
Di-n-Octylphthalate	ND		ug/kg	327	22.9	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A	
Dibenzo(a,h)anthracene	45.7J	J	ug/kg	164	19.6	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A	
Dibenzofuran	44.8J	J	ug/kg	327	26.2	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A	
1,2-Dichlorobenzene	ND		ug/kg	327	29.5	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A	
1,3-Dichlorobenzene	ND		ug/kg	327	22.9	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A	

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**ANALYTICAL RESULTS**

Workorder: 2280205 Biosolids 11/29/17

 Lab ID: **2280205001** Date Collected: 11/29/2017 12:15 Matrix: Solid  
 Sample ID: **17-4th Qtr - Digest BFP BOC** Date Received: 11/30/2017 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
1,4-Dichlorobenzene	ND		ug/kg	327	22.9	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
3,3-Dichlorobenzidine	ND		ug/kg	655	124	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
2,4-Dichlorophenol	162J	J	ug/kg	655	26.2	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
Diethylphthalate	ND		ug/kg	327	26.2	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
2,4-Dimethylphenol	ND		ug/kg	655	49.1	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
Dimethylphthalate	ND		ug/kg	327	22.9	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
2,4-Dinitrophenol	ND		ug/kg	655	131	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
2,4-Dinitrotoluene	ND		ug/kg	327	29.5	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
2,6-Dinitrotoluene	ND		ug/kg	327	39.3	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
bis(2-Ethylhexyl)phthalate	37800		ug/kg	1310	91.7	SW846 8270D	12/5/17 03:10 JTH	12/6/17 10:21	GEC	A
Fluoranthene	240		ug/kg	164	16.4	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
Fluorene	61.5J	J	ug/kg	164	19.6	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
Hexachlorobenzene	ND		ug/kg	327	36.0	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
Hexachlorobutadiene	ND		ug/kg	327	32.7	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
Hexachlorocyclopentadiene	ND		ug/kg	655	36.0	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
Hexachloroethane	ND		ug/kg	327	29.5	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
Indeno(1,2,3-cd)pyrene	742		ug/kg	164	22.9	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
Isophorone	ND		ug/kg	327	19.6	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
2-Methyl-4,6-dinitrophenol	ND		ug/kg	655	85.1	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
2-Methylnaphthalene	121J	J	ug/kg	327	16.4	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
Naphthalene	84.9J	J	ug/kg	164	19.6	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
2-Nitroaniline	ND		ug/kg	655	39.3	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
3-Nitroaniline	ND		ug/kg	655	65.5	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
4-Nitroaniline	ND		ug/kg	655	26.2	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
Nitrobenzene	ND		ug/kg	327	39.3	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
2-Nitrophenol	ND		ug/kg	655	36.0	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
4-Nitrophenol	ND		ug/kg	655	45.8	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
N-Nitrosodimethylamine	ND		ug/kg	327	49.1	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
N-Nitroso-di-n-propylamine	ND		ug/kg	327	26.2	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
N-Nitrosodiphenylamine	ND		ug/kg	327	26.2	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
Pentachlorophenol	ND		ug/kg	655	85.1	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
Phenanthrene	231		ug/kg	164	16.4	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
Phenol	23200		ug/kg	655	32.7	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
Pyrene	329		ug/kg	164	16.4	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
1,2,4-Trichlorobenzene	ND		ug/kg	327	19.6	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
2,4,5-Trichlorophenol	ND		ug/kg	655	39.3	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
2,4,6-Trichlorophenol	ND		ug/kg	655	39.3	SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A

**DIOXIN SCREEN**
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**ANALYTICAL RESULTS**

Workorder: 2280205 Biosolids 11/29/17

 Lab ID: **2280205001** Date Collected: 11/29/2017 12:15 Matrix: Solid  
 Sample ID: **17-4th Qtr - Digest BFP BOC** Date Received: 11/30/2017 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
2,3,7,8-TCDD	ND	4	ug/kg	22.9	22.9	SW846 8270D	12/5/17 03:10 JTH	12/5/17 20:27	DHF	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	43.3		%	19 - 132		SW846 8270D	12/5/17 03:10 JTH	12/6/17 10:21	GEC	A
2,4,6-Tribromophenol (S)	41.9		%	19 - 132		SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
2-Fluorobiphenyl (S)	50.7		%	40 - 110		SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
2-Fluorobiphenyl (S)	55.7		%	40 - 110		SW846 8270D	12/5/17 03:10 JTH	12/6/17 10:21	GEC	A
2-Fluorophenol (S)	35.4		%	26 - 116		SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
2-Fluorophenol (S)	36.6		%	26 - 116		SW846 8270D	12/5/17 03:10 JTH	12/6/17 10:21	GEC	A
Nitrobenzene-d5 (S)	38.5		%	38 - 112		SW846 8270D	12/5/17 03:10 JTH	12/6/17 10:21	GEC	A
Nitrobenzene-d5 (S)	37.5	8	%	38 - 112		SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
Phenol-d5 (S)	39.2		%	35 - 111		SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
Phenol-d5 (S)	50.2		%	35 - 111		SW846 8270D	12/5/17 03:10 JTH	12/6/17 10:21	GEC	A
Terphenyl-d14 (S)	63.9		%	45 - 126		SW846 8270D	12/5/17 03:10 JTH	12/6/17 10:21	GEC	A
Terphenyl-d14 (S)	56.1		%	45 - 126		SW846 8270D	12/5/17 03:10 JTH	12/5/17 15:49	GEC	A
<b>PESTICIDES</b>										
Aldrin	ND		ug/kg	29.1	9.4	SW846 8081B	12/5/17 02:40 JTH	12/5/17 17:43	RWS	A
alpha-BHC	ND		ug/kg	29.1	2.6	SW846 8081B	12/5/17 02:40 JTH	12/5/17 17:43	RWS	A
beta-BHC	ND		ug/kg	29.1	3.1	SW846 8081B	12/5/17 02:40 JTH	12/5/17 17:43	RWS	A
delta-BHC	ND		ug/kg	29.1	2.2	SW846 8081B	12/5/17 02:40 JTH	12/5/17 17:43	RWS	A
gamma-BHC	ND		ug/kg	29.1	2.4	SW846 8081B	12/5/17 02:40 JTH	12/5/17 17:43	RWS	A
alpha-Chlordane	21.1J	J	ug/kg	29.1	3.1	SW846 8081B	12/5/17 02:40 JTH	12/5/17 17:43	RWS	A
gamma-Chlordane	ND		ug/kg	29.1	5.0	SW846 8081B	12/5/17 02:40 JTH	12/5/17 17:43	RWS	A
4,4'-DDD	ND		ug/kg	56.5	4.6	SW846 8081B	12/5/17 02:40 JTH	12/5/17 17:43	RWS	A
4,4'-DDE	ND		ug/kg	56.5	7.7	SW846 8081B	12/5/17 02:40 JTH	12/5/17 17:43	RWS	A
4,4'-DDT	ND	3	ug/kg	56.5	6.5	SW846 8081B	12/5/17 02:40 JTH	12/5/17 17:43	RWS	A
Dieldrin	14.4J	J	ug/kg	56.5	6.5	SW846 8081B	12/5/17 02:40 JTH	12/5/17 17:43	RWS	A
Endosulfan I	ND		ug/kg	29.1	3.6	SW846 8081B	12/5/17 02:40 JTH	12/5/17 17:43	RWS	A
Endosulfan II	ND		ug/kg	56.5	11.8	SW846 8081B	12/5/17 02:40 JTH	12/5/17 17:43	RWS	A
Endosulfan Sulfate	ND		ug/kg	56.5	3.8	SW846 8081B	12/5/17 02:40 JTH	12/5/17 17:43	RWS	A
Endrin	ND		ug/kg	56.5	4.1	SW846 8081B	12/5/17 02:40 JTH	12/5/17 17:43	RWS	A
Endrin Aldehyde	ND		ug/kg	56.5	6.2	SW846 8081B	12/5/17 02:40 JTH	12/5/17 17:43	RWS	A
Endrin Ketone	ND	2	ug/kg	56.5	7.9	SW846 8081B	12/5/17 02:40 JTH	12/5/17 17:43	RWS	A
Heptachlor	ND		ug/kg	29.1	2.9	SW846 8081B	12/5/17 02:40 JTH	12/5/17 17:43	RWS	A
Heptachlor Epoxide	ND		ug/kg	29.1	2.9	SW846 8081B	12/5/17 02:40 JTH	12/5/17 17:43	RWS	A
Methoxychlor	ND		ug/kg	56.5	7.5	SW846 8081B	12/5/17 02:40 JTH	12/5/17 17:43	RWS	A
Toxaphene	ND		ug/kg	600	99.4	SW846 8081B	12/5/17 02:40 JTH	12/5/17 17:43	RWS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>

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**ANALYTICAL RESULTS**

Workorder: 2280205 Biosolids 11/29/17

 Lab ID: **2280205001** Date Collected: 11/29/2017 12:15 Matrix: Solid  
 Sample ID: **17-4th Qtr - Digest BFP BOC** Date Received: 11/30/2017 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
Decachlorobiphenyls (S)	58		%	30 - 135		SW846 8081B	12/5/17 02:40 JTH	12/5/17 17:43	RWS	A
Tetrachloro-m-xylene (S)	77.2		%	30 - 111		SW846 8081B	12/5/17 02:40 JTH	12/5/17 17:43	RWS	A
<b>WET CHEMISTRY</b>										
Cyanide, Total	2.3	1	mg/kg	0.83	0.30	SW846 9012B	12/7/17 10:05 C_D	12/7/17 16:06	AK	A
Hexane Extractable Material	57500		mg/kg	676	200	SW846 9071B		12/6/17 12:30	JXS	A
Moisture	71.0		%	0.1	0.01	S2540G-11		12/5/17 10:48	AXD	A
Silica Gel Treated HEM	12600		mg/kg	676	200	SW846 9071B		12/6/17 12:30	JXS	A
Total Solids	29.0		%	0.1	0.01	S2540G-11		12/5/17 10:48	AXD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>		<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i> <i>Cntr</i>
1,2-Dichloroethane-d4 (S)	85.8		%	71 - 146		SW846 8260B	12/5/17 11:00 TMP	12/6/17 14:35	TMP	C1
4-Bromofluorobenzene (S)	79.6		%	46 - 138		SW846 8260B	12/5/17 11:00 TMP	12/6/17 14:35	TMP	C1
Dibromofluoromethane (S)	78.7		%	42 - 143		SW846 8260B	12/5/17 11:00 TMP	12/6/17 14:35	TMP	C1
Toluene-d8 (S)	96.9		%	54 - 141		SW846 8260B	12/5/17 11:00 TMP	12/6/17 14:35	TMP	C1



 Ms. Amy K Borden  
 Project Coordinator

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### ANALYTICAL RESULTS

Workorder: 2280205 Biosolids 11/29/17

**PARAMETER QUALIFIERS**

Lab ID	#	Sample ID	Analytical Method	Analyte
<b>2280205001</b>	1	17-4th Qtr - Digest BFP BOC	SW846 9012B	Cyanide, Total
The method blank associated with this analyte had a result of 0.006 mg/L. Criteria states that the method blank should be less than or equal to 0.005 mg/L.				
<b>2280205001</b>	2	17-4th Qtr - Digest BFP BOC	SW846 8081B	Endrin Ketone
Method criteria requires continuing calibration verification (CCV) standards be less than or equal to 20% of the initial calibration for the 8081 analysis. This compound was biased low 36% in the bracketing CCV. Data for this compound may have been impacted.				
<b>2280205001</b>	3	17-4th Qtr - Digest BFP BOC	SW846 8081B	4,4'-DDT
Method criteria requires continuing calibration verification (CCV) standards be less than or equal to 20% of the initial calibration for the 8081 analysis. This compound was biased low 43% in the bracketing CCV. Data for this compound may have been impacted.				
<b>2280205001</b>	4	17-4th Qtr - Digest BFP BOC	SW846 8270D	2,3,7,8-TCDD
A SIM screen analysis was run for Dioxin and no peaks were observed.				
<b>2280205001</b>	5	17-4th Qtr - Digest BFP BOC	SW846 8260B	Methylene Chloride
The Method Blank for method SW846 8260B reported a value greater than the reporting level for the analyte Methylene Chloride.				
<b>2280205001</b>	6	17-4th Qtr - Digest BFP BOC	SW846 8260B	Methylene Chloride
The QC sample type LCS for method SW846 8260B was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 201 and the control limits were 68 to 133.				
<b>2280205001</b>	7	17-4th Qtr - Digest BFP BOC	SW846 8260B	Methylene Chloride
The QC sample type LCSD for method SW846 8260B was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 190 and the control limits were 68 to 133.				
<b>2280205001</b>	8	17-4th Qtr - Digest BFP BOC	SW846 8270D	Nitrobenzene-d5
The surrogate Nitrobenzene-d5 for method SW846 8270D was outside of control limits. The % Recovery was reported as 37.5 and the control limits were 38 to 112. This result was reported at a dilution of 1.				

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Analytical Laboratory Services, Inc.  
Environmental and Industrial Hygiene & Field Services

34 Dogwood Lane w/ Middletown, PA 17057 w/ 717.946.5541 w/ Fax 717.944.1430

Client Name: DCWASA - OTHERS

Address: 5000 Overlook Ave, SW  
Washington, D.C. 20032

Contact: Elaine Wilson  
Phone#: 202-787-4177

Project Name/ft: Bio/Quarterly

Bill To: Accounts Payable Office- 4th Floor

TAT  Normal-Standard TAT is 10-12 business days.  
 Rush-Subject to ALSI approval and surcharges.

Date Required: \_\_\_\_\_ Approved By: \_\_\_\_\_

Email?  -Y  
Fax?  -Y No: \_\_\_\_\_

Sample Description/Location  
(as it will appear on the lab report)

Sample Date

Time

17-4th Qtr-Digest BFP BOC

11/29/2017

1215

Generated by ALS

**CHAIN OF CUSTODY/  
REQUEST FOR ANALYSIS**

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /  
SAMPLER. INSTRUCTIONS ON THE BACK.

COOLERS: (Completed by Receiving Lab)

Cooler Temp: 5 Therm ID: 4102

No. of Coolers: 2 Y N Initial AWN

Custody Seals Present?	<input type="checkbox"/>
(if present) Seals Intact?	<input type="checkbox"/>
Received on Ice?	<input type="checkbox"/>
COCLabels Complete/Accurate?	<input type="checkbox"/>
Cont. in Good Cond.?	<input type="checkbox"/>
Correct Containers?	<input type="checkbox"/>
Correct Sample Volumes?	<input type="checkbox"/>
Correct Preservation?	<input type="checkbox"/>
HeadSpace/Volatiles?	<input type="checkbox"/>

Courier/Tracking #:

Sample/COC Comments

\*plus hexachlorobenzene, hexachlorobutadiene  
and toxaphene

ALSI Field Services:  Pickup  oLabor  
 Composite Sampling  Rental Equipment  
 Other:

Project	Comments: *Run % solids and report data as mg/kg dry weight	LOGGED BY (signature):		REVIEWED BY (signature):	
		Date	Time	Date	Time
1		11/29/17	1930	[Signature]	4:30
3		12/1/17		[Signature]	1900
5		12/01/17		[Signature]	2200
7					
9					

Data Deliverables	Special Processing	State Samples Collected In
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reportable to PADEP?		
Yes <input type="checkbox"/>	Navy <input type="checkbox"/>	PA <input type="checkbox"/>
PWSID #	Special Disposal	NC <input type="checkbox"/>
EDDS: Format Type-	Lab <input type="checkbox"/>	Special <input type="checkbox"/>