

HALIFAX AREA WATER AND
SEWER AUTHORITY
DAUPHIN COUNTY, PENNSYLVANIA

2015 CHAPTER 94 REPORT
MUNICIPAL WASTELOAD
MANAGEMENT PLAN

PREPARED
March 2016

Glace Associates, Inc.
CONSULTING ENGINEERS
3705 TRINDLE ROAD
CAMP HILL, PENNSYLVANIA 17011



CHAPTER 94 MUNICIPAL WASTELOAD MANAGEMENT ANNUAL REPORT

For Calendar Year: 2015

- ☒ Permittee is owner and/or operator of a POTW or other sewage treatment facility
- ☐ Permittee is owner and/or operator of a collection system tributary to a POTW not owned/operated by permittee

GENERAL INFORMATION			
Permittee Name:	Halifax Area Water And Sewer Authority	Permit No.:	PA0024457
Mailing Address:	PO Box 443	Effective Date:	6/1/2011
City, State, Zip:	Halifax, PA 17032	Expiration Date:	5/31/2016
Contact Person:	Jeffrey Grosser	Renewal Due Date:	Submitted 11/20/2015
Title:	Operator	Municipality:	Halifax Boro, Halifax Twp
Phone:	717 896-3886	County:	Dauphin
Email:	jgrosser@hawasaonline.com	Consultant Name:	Glace Associates, Inc.
CHAPTER 94 REPORT COMPONENTS			
<p>1. Attach to this report a line graph depicting the monthly average flows (expressed in MGD) for each month for the past 5 years and projecting the flows for the next 5 years. The graph must also include a line depicting the hydraulic design capacity per the WQM permit. (<u>25 Pa. Code § 94.12(a)(1)</u>)</p> <p>Check the appropriate boxes:</p> <p><input type="checkbox"/> Line graph for flows attached (Attachment)</p> <p><input checked="" type="checkbox"/> DEP Chapter 94 Spreadsheet used (Attachment A)</p> <p><input type="checkbox"/> Section 1 is not applicable (report is for a collection system).</p>			
<p>2. Attach to this report a line graph depicting the monthly average organic loads (express as lbs BOD5/day) for each month for the past 5 years and projecting the organic loads for the next 5 years. The graph must also include a line depicting the organic design capacity of the treatment plant per the WQM permit. (<u>25 Pa. Code § 94.12(a)(2)</u>)</p> <p>Check the appropriate boxes:</p> <p><input type="checkbox"/> Line graph for organic loads attached (Attachment)</p> <p><input checked="" type="checkbox"/> DEP Chapter 94 Spreadsheet used (Attachment A)</p> <p><input type="checkbox"/> Section 2 is not applicable (report is for a collection system).</p>			

3. If the DEP Chapter 94 Spreadsheet was not used to determine projections, discuss the basis for the hydraulic and organic projections. In all cases, include a description of the time needed to expand the plant to meet the load projections, if necessary, and data used to support the projections should be included in an appendix to this report. (25 Pa. Code § 94.12(a)(3))

There is no need identified to expand the plant to meet the load projections, based on the use of the DEP Chapter 94 Spreadsheet included as Attachment A.

4. Attach a map showing all sewer extensions constructed within the past calendar year, sewer extensions approved or exempted in the past year in accordance with Act 537 and Chapter 71, but not yet constructed, and all known proposed projects which require public sewers but are in the preliminary planning stages. The map must be accompanied by a list summarizing each extension or project and the population to be served by the extension or project. If a sewer extension approval or proposed project includes schedules describing how the project will be completed over time, the listing should include that information and the effect this build-out-rate will have on populations served. (25 Pa. Code § 94.12(a)(4))

Check the appropriate boxes:

- ☒ Map showing sewer extensions constructed, approved/exempted but not yet constructed, and proposed projects attached (**Attachment B**)
- ☐ List summarizing each extension or project attached (**Attachment**)
- ☐ Schedules describing how each project will be completed over time and effects attached (**Attachment**)

Comments:

No sewer extensions were constructed in 2015. No sewer extensions were approved or exempted in 2015. A sewer extension to a new Sheetz convenience store was exempted in 2012 (2,000 gpd) but has not yet been constructed. The planned extension is shown on Attachment B. Construction is anticipated in early 2016.

5. Discuss the permittee's program for sewer system monitoring, maintenance, repair and rehabilitation, including routine and special activities, personnel and equipment used, sampling frequency, quality assurance, data analyses, infiltration/inflow monitoring, and, where applicable, maintenance and control of combined sewer regulators during the past year. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(5))

Analysis of WWTP influent, effluent and sludge was conducted at minimum at permit frequencies through certified lab(s). The plant operator completes the daily samples such as pH, dissolved oxygen and chlorine residual. All other testing is contracted to Microbac Laboratories. Repairs to the system are conducted on an as-needed basis. There are 2 full-time operators of the sewer system, shared with the water system. Special activities included: Received new trailer mounted generator. Continued work with PRWA to GPS locate collection system. Repaired digester in kind from insurance claim. The collection system maintenance program consists of checks on manholes throughout the collection system. Manhole inserts have been placed in manholes that appear to be affected by inflow. No serious problems observed in collection system. Not a combined system, no regulators present.

6. Discuss the condition of the sewer system including portions of the system where conveyance capacity is being exceeded or will be exceeded in the next 5 years and portions where rehabilitation or cleaning is needed or is underway to maintain the integrity of the system and prevent or eliminate bypassing, CSOs, SSOs, excessive infiltration and other system problems. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(6))

Check the appropriate boxes:

- ☐ System experienced capacity-related bypassing, SSOs or surcharging during the report year. On a separate sheet, list the date, location, and reason for each bypass, SSO or surcharge event.
- ☒ System did not experience capacity-related bypassing, SSOs or surcharging during the report year.

Comments:

No serious conditions observed in the collection system. Pump speed control adjustments were made late in the year to minimize routine running of 2nd pump at Main pumping station. Corrective Action Plan (CAP) agreed with DEP in December 2015, and permit for larger force main submitted in January 2016, aimed to avoid routine running of 2nd pump.

7. Attach a discussion on the condition of sewage pumping (pump) stations. Include a comparison of the maximum pumping rate with present maximum flows and the projected 2-year maximum flows for each station. (25 Pa. Code § 94.12(a)(7))

Check the appropriate boxes:

- ☐ The collection system does not contain pump stations
- ☒ The collection system does contain pump stations (Number – 2)
- ☒ Discussion of condition of each pump station attached (**Attachment C**)

8. If the sewage collection system receives industrial wastes (i.e., non-sanitary wastes), attach a report with the information listed below. (25 Pa. Code § 94.12(a)(8))

- a. A copy of any ordinance or regulation governing industrial waste discharges to the sewer system or a copy of amendments adopted since the initial submission of the ordinance or regulation under Chapter 94, if it has not previously been submitted.
- b. A discussion of the permittee's or municipality's program for surveillance and monitoring of industrial waste discharges into the sewer system during the past year.
- c. A discussion of specific problems in the sewer system or at the plant, known or suspected to be caused by industrial waste discharges and a summary of the steps being taken to alleviate or eliminate the problems. The discussion shall include a list of industries known to be discharging wastes which create problems in the plant or in the sewer system and action taken to eliminate the problem or prevent its recurrence. The report may describe pollution prevention techniques in the summary of steps taken to alleviate current problems caused by industrial waste dischargers and in actions taken to eliminate or prevent potential or recurring problems caused by industrial waste dischargers.

Check the appropriate boxes:

- ☐ Industrial waste report as described in 8 a., b. and c. attached (**Attachment**)
- ☐ Industrial pretreatment report as required in an NPDES permit attached (**Attachment**)

9. Existing or Projected Overload.

Check the appropriate boxes:

- ☐ This report demonstrates an existing hydraulic overload condition.
☐ This report demonstrates a projected hydraulic overload condition.
☐ This report demonstrates an existing organic overload condition.
☐ This report demonstrates a projected organic overload condition.

If one or more boxes above have been checked, attach a Corrective Action Plan (CAP) to reduce or eliminate present or projected overloaded conditions under §§ 94.21 and/or 94.22 (relating to existing overload and projected overload). (25 Pa. Code § 94.12(a)(9))

- ☐ Corrective Action Plan attached (**Attachment**)

10. Where required by the NPDES permit, attach a Sewage Sludge Management inventory that demonstrates a mass balance of solids coming in and leaving the facility over the previous calendar year.

- ☒ Sewage Sludge Management Inventory attached (**Attachment D**)

11. For facilities with CSOs and where required by the NPDES permit, attach an Annual CSO Report (including satellite combined sewer systems).

- ☐ Annual CSO Report attached (**Attachment**)

12. For POTWs, attach a calibration report documenting that flow measuring, indicating and recording equipment has been calibrated annually. (25 Pa. Code § 94.13(b))

- ☒ Flow calibration report attached (**Attachment E**)

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Fred L. Ford, Jr., Chairman

Name of Responsible Official

717 896-3886

Telephone No.


Signature

Date

PREPARER CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared by me or otherwise under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Joseph A. Bluge, Glace Associates, Inc.

Name of Preparer



Signature

717 731-1579

Telephone No.

3/15/16
Date

ATTACHMENTS

- A. HYDRAULIC AND ORGANIC LOADING DATA & PROJECTIONS
GRAPH (DEP SPREADSHEET)
- B. GENERAL PLAN
- C. DISCUSSION ON THE CONDITION OF PUMP STATIONS
- D. SOLIDS MANAGEMENT INVENTORY
- E. FLOW METER CALIBRATION REPORT
- F. MONTHLY DISCHARGE MONITORING REPORTS

ATTACHMENT A

HYDRAULIC AND ORGANIC LOADING DATA
PROJECTIONS GRAPH
(DEP Spreadsheet)

PADEP Chapter 94 Spreadsheet
Sewage Treatment Plants

Reporting Year: 2015

Facility Name: Halifax Wastewater Treatment Plant

Permit No.: PA0024457

Persons/EDU: 3.5

Existing Hydraulic Design Capacity: 0.21 MGD
 Upgrade Planned in Next 5 Years? NO Year:
 Future Hydraulic Design Capacity: MGD

Existing Organic Design Capacity: 527 lbs BOD5/day
 Upgrade Planned in Next 5 Years? NO Year:
 Future Organic Design Capacity: lbs BOD5/day

Monthly Average Flows for Past Five Years (MGD)

Month	2011	2012	2013	2014	2015
January	0.106	0.098	0.098	0.0866	0.0774
February	0.124	0.102	0.101	0.0822	0.0691
March	0.19	0.102	0.103	0.102	0.0976
April	0.213	0.095	0.102	0.1446	0.1123
May	0.225	0.122	0.105	0.1525	0.121
June	0.177	0.113	0.115	0.1541	0.129
July	0.157	0.117	0.116	0.1284	0.1264
August	0.15	0.111	0.108	0.1155	0.1181
September	0.267	0.106	0.104	0.1117	0.11
October	0.215	0.098	0.109	0.1009	0.0985
November	0.171	0.093	0.096	0.0832	0.0924
December	0.163	0.102	0.102	0.095	0.0996

Annual Avg	0.18	0.105	0.105	0.1131	0.1043
Max 3-Mo Avg	0.218	0.144	0.113	0.1504	0.1255
Max : Avg Ratio	1.21	1.37	1.08	1.33	1.20
Existing EDUs	737.0	737.0	737.0	739.0	739.0
Flow/EDU (GPD)	244.2	142.5	142.5	153.0	141.1
Flow/Capita (GPD)	69.8	40.7	40.7	43.7	40.3
Exist. Overload?	NO	NO	NO	NO	NO

Projected Flows for Next Five Years (MGD)

	2016	2017	2018	2019	2020
New EDUs	10.0	2.0	2.0	2.0	2.0
New EDU Flow	0.0016	0.0003	0.0003	0.0003	0.0003
Proj. Annual Avg	0.1231	0.1234	0.1237	0.124	0.1243
Proj. Max 3-Mo Avg	0.1524	0.1528	0.1532	0.1536	0.1539
Proj. Overload?	NO	NO	NO	NO	NO

Monthly Average BOD5 Loads for Past Five Years (lbs/day)

Month	2011	2012	2013	2014	2015
January	297	90	90	96	136
February	154	155	163	140	101
March	279	144	105	155	142
April	176	249	166	153	199
May	147	197	133	241	347
June	210	77	15	317	513
July	185	156	179	362	317
August	205	130	181	200	171
September	299	210	157	168	357
October	179	112	158	190	273
November	278	90	185	156	100
December	158	135	157	153	147

Annual Avg	214	145	141	194	234
Max Mo Avg	299	249	185	362	513
Max : Avg Ratio	1.40	1.71	1.31	1.86	2.20
Existing EDUs	737	737	737	739	739
Load/EDU	0.290	0.197	0.191	0.263	0.316
Load/Capita	0.083	0.056	0.055	0.075	0.090
Exist. Overload?	NO	NO	NO	NO	NO

Projected BOD5 Loads for Next Five Years (lbs/day)

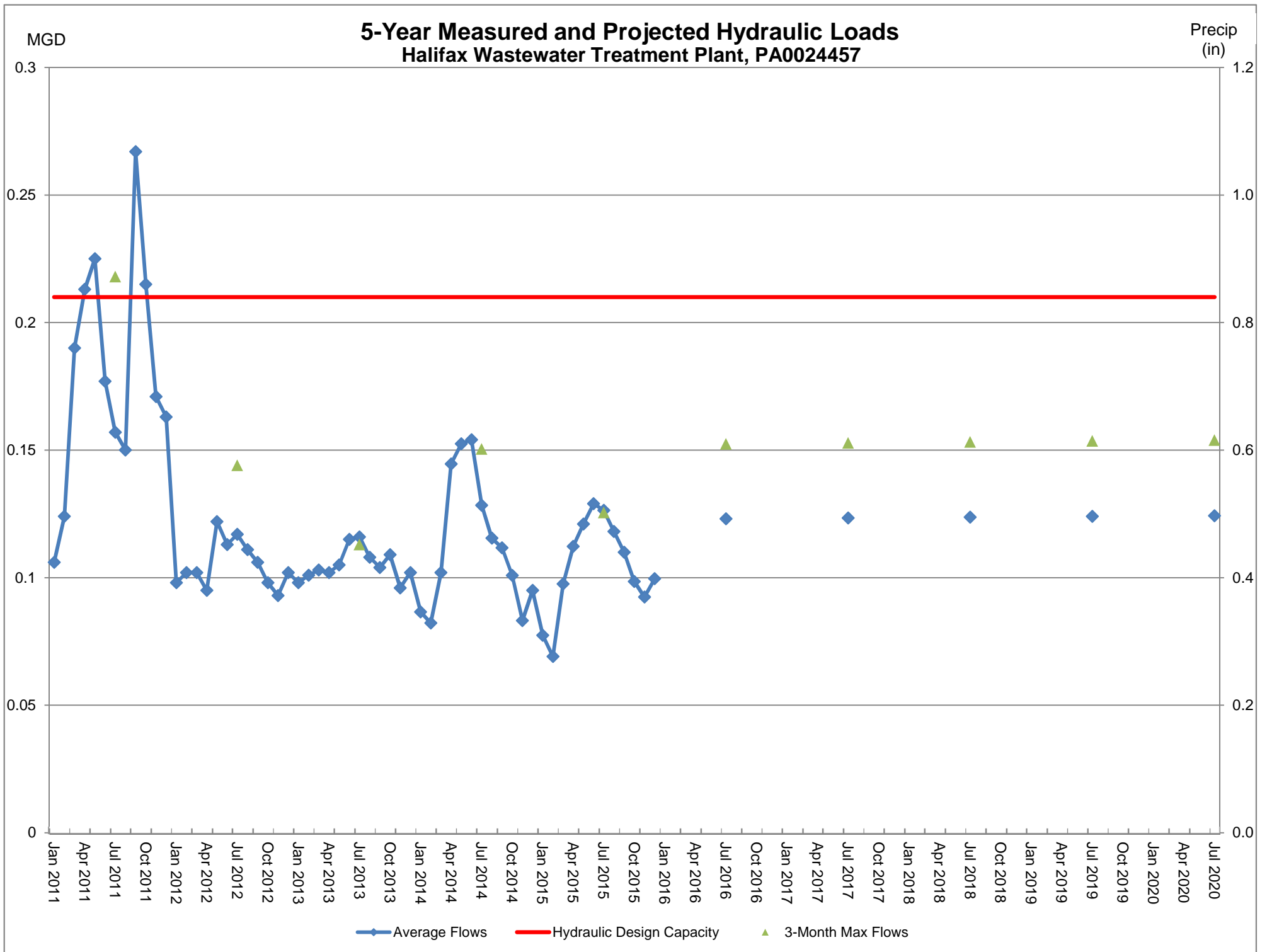
	2016	2017	2018	2019	2020
New EDUs	10	2	2	2	2
New EDU Load	2.515	0.503	0.503	0.503	0.503
Proj. Annual Avg	188	189	189	190	190
Proj. Max Avg	319	320	321	322	323
Proj. Overload?	NO	NO	NO	NO	NO

Show Precipitation Data on Hydraulic Graph?

Total Monthly Precipitation for Past Five Years (Inches)

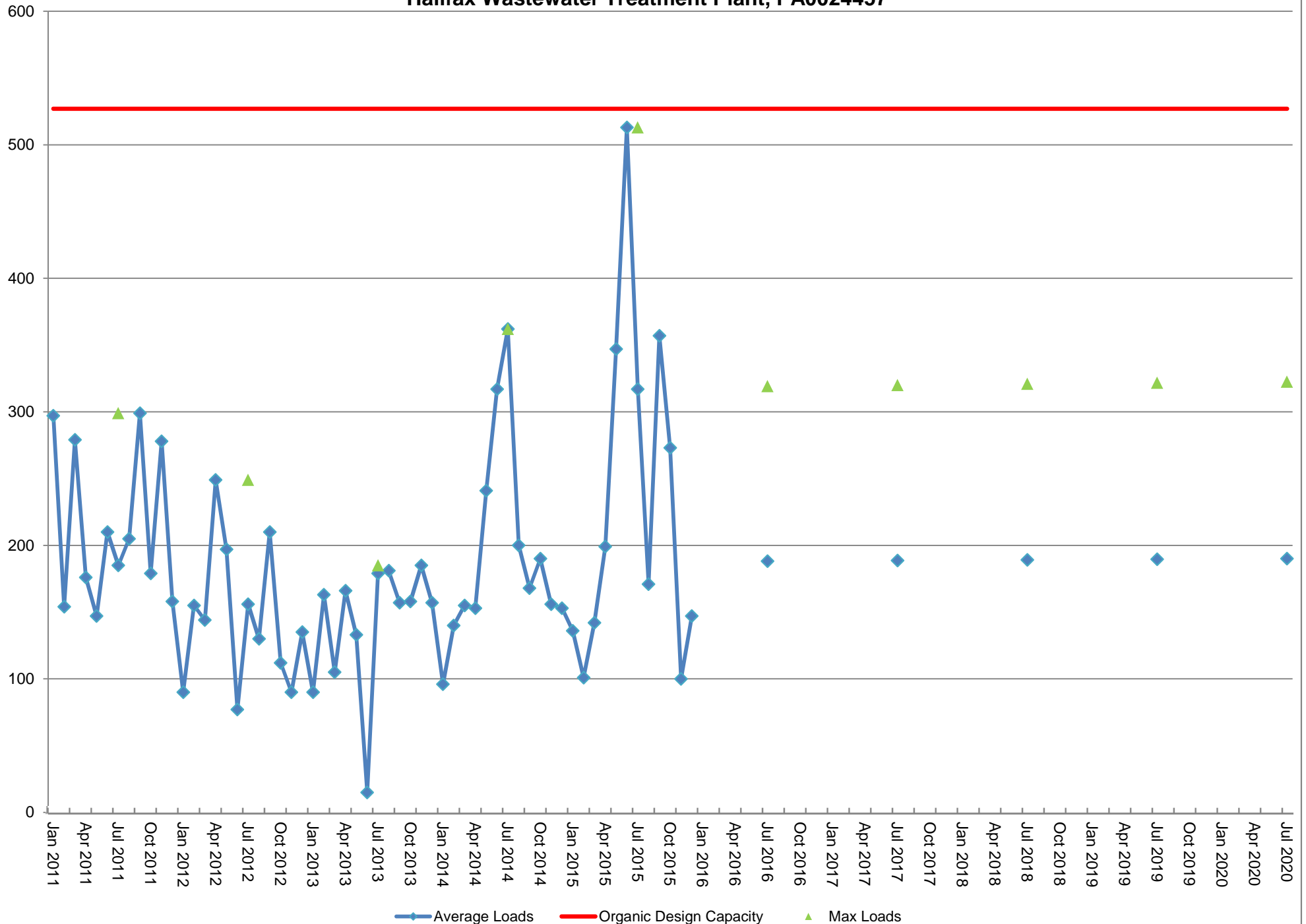
Month	2011	2012	2013	2014	2015
January					
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					

5-Year Measured and Projected Hydraulic Loads Halifax Wastewater Treatment Plant, PA0024457



5-Year Measured and Projected Organic Loads

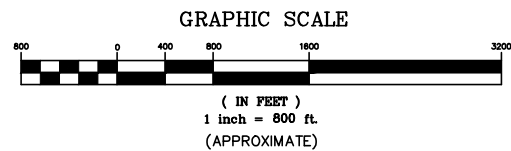
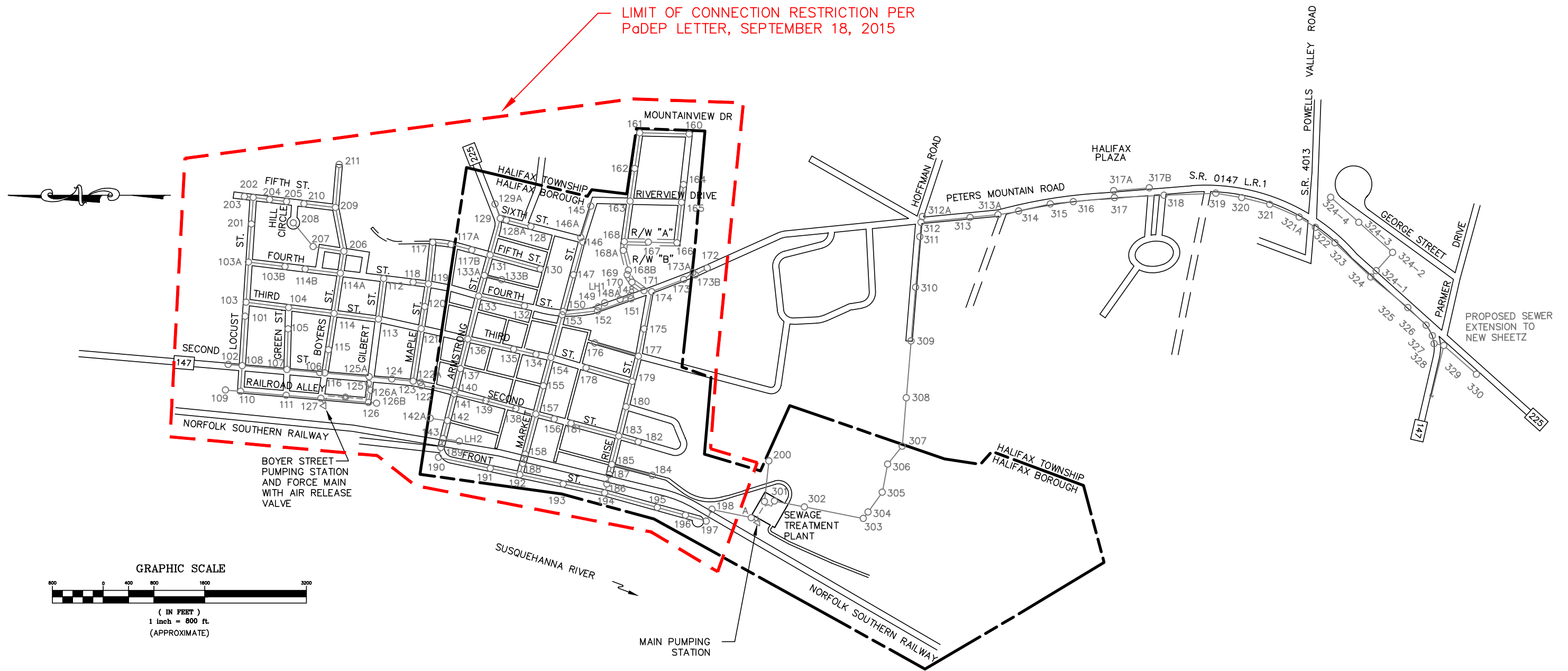
Halifax Wastewater Treatment Plant, PA0024457



ATTACHMENT B

GENERAL PLAN

LIMIT OF CONNECTION RESTRICTION PER
PaDEP LETTER, SEPTEMBER 18, 2015



COMPUTER DRAWING FILE NAME:
S-GENPLAN - CAP.DWG

HALIFAX AREA WATER AND SEWER AUTHORITY
DAUPHIN COUNTY, PENNSYLVANIA

GENERAL PLAN OF
SANITARY SEWERAGE FACILITIES
FOR CORRECTIVE ACTION PLAN

SCALE	DATE	FILE CODE	PLAN NO.
1"=800'	OCT., 2015	6071502	3

GLACE ASSOCIATES, INC., CAMP HILL, PA.

ATTACHMENT C

DISCUSSION ON THE CONDITIONS OF PUMP STATIONS

ATTACHMENT C. CONDITION OF PUMP STATIONS

The sewerage system contains two pumping stations.

Boyer Street Pumping Station - Location: Boyer Street, Halifax Township

Design Capacity:	50 gpm (1 pump basis) or 477 EDUs
Present Flows:	Average: 0.6 gpm Maximum (Peak Hourly Flow estimated): 50 gpm Projected two-year maximum peak hourly flow estimated: 50 gpm (design basis of new Boyer Street Pump Station for maintaining velocity in 4-inch force main)

The Boyer Street Pump Station was upgraded to submersible pumps at the end of 2014 and began operations in 2015. The single phase pumps run full speed. Attached runtime records indicate total runtime for both pumps is approximately 2 hours per week, usually divided equally between the pumps. However, the operator reports the floats electrically shorted on 3 occasions, but the float operation has since been corrected. The float timer did not record any events in 2015. It was returned to the vendor to verify proper operation. Procedures are being reviewed to ensure proper data recording for the remainder of 2016.

Main Pumping Station - Location: At the Treatment Plant, conveying all flow from the Borough and the northern Halifax Township service area (including flows from Boyer Street Pumping Station). There are two (2) suction lift pumps with separate 4-inch suction lines, running into a single 4-inch force main. The pumps are variable speed based on use of variable frequency drives, so only maximum flows can be estimated based on runtime. Due to the small size of the force main, 2 pumps on represents a much lower flow rate than twice one-pump flow. Based on late 2015 runtime records following an adjustment to the pump controls, the lead pump (which is alternated) runs 24 hours per day nearly every day, while the lag pump typically runs 0 hours, to as many as 6 hours per day in a consistent rainstorm. Despite the interim controls adjustment, it remains unclear whether pumps run full speed together for an hourly period until the proposed further adjustment and flow metering is added. This pumping station also receives return flows from the treatment plant.

A Corrective Action Plan (CAP) was agreed with DEP in December 2015 and corresponding Water Quality Management Permit (WQMP) application was made in January 2016. The pending application would add a larger 6-inch force main, a flow meter, and electrical/control adjustments so the 240 gpm peak hourly flow can be conveyed using only one pump.

Design Capacity:	175 gpm (1 pump basis) or 1,669 EDUs
Present Flows:	Average: 70 gpm (estimated based on plant flow) Maximum (Peak Hourly Flow estimated): 240 gpm Projected two-year maximum peak hourly flow estimated: 240 gpm (based on effective capacity of 2 pumps together into small 4-inch force main) <i>As noted plant return flows are included.</i>

Wastewater from the Halifax School and southern Halifax Township service area flows directly to the headworks. The Peak Hourly Flow at the WWTP is determined to be 360 gpm based on analysis of effluent WWTP flow meter charts for this flow-through treatment plant.

Heli Pump

JANUARY 2015

PUMP RUN TIMES

DATE:	#1 PUMP	TIME	#2 PUMP	TIME
JAN. 1	9581.8	24	8653.5	12.2
2	9605.8	24	8665.8	12.3
3	9629.8	24	8678	12.2
4	9653.8	24	8692	14
5	9677.8	24	8706.1	14.1
6	9701.8	24	8719	12.9
7	9725.8	24	8732	13
8	9749.8	24	8744.1	12.1
9	9774.1	24.3	8755.8	11.7
10	9797.9	23.8	8766.8	11
11	9821.8	23.9	8779.2	12.4
12	9845.8	24	8794.4	15.2
13	9869.8	24	8806.9	12.5
14	9893.8	24	8818.5	11.6
15	9917.8	24	8829.8	11.3
16	9941.8	24	8842.3	12.5
17	9965.3	23.9	8854.6	12.3
18	9989.6	23.9	8867	12.4
19	10013.5	23.9	8879.4	12.4
20	10037.8	24.3	8892.1	12.7
21	10061.8	24	8902.6	10.5
22	10085.8	24	8915.4	12.8
23	10109.8	24	8925.7	10.3
24	10133.8	24	8937.1	11.4
25	10157.1	23.9	8948.2	11.1

JANUARY 2015

PUMP RUN TIMES

DATE:	#1 PUMP	TIME	#2 PUMP	TIME
JAN. 26	10181.7	24	8958.3	10.1
27	10205.8	24.1	8969	10.7
28	10229.8	24	8979.5	10.5
29	10253.7	23.9	8990.9	11.4
30	10277.8	24.1	9002.5	11.6
31	10302.7	24.9	9013.2	10.7

FEBRUARY 2015

DATE:	#1 PUMP	TIME	#2 PUMP	TIME
FEB. 1	10325.8	23.1	9024.0	10.8
2	10349.8	24	9036.9	12.9
3	10373.8	24	9048.9	12
4	10397.8	24	9060.3	11.4
5	10421.8	24	9073.8	13.5
6	10445.8	24	9085.1	11.3
7	10469.5	23.7	9096	10.9
8	10469.5	Ø	9120	24
9	10469.5	Ø	9144	24
10	10493.4	23.9	9150.2	6.2
11	10517.4	24	9156.8	6.6
12	10541.5	24.1	9163.5	6.7

FEBRUARY 2015

PUMP RUN TIMES

DATE:	#1 PUMP	TIME	#2 PUMP	TIME
2-13-15	10565.3	23.8	9169.8	6.3
14	10591.1	25.8	9178.1	8.3
15	10619.3	28.2	9185.8	7.7
16	10637.3	28.0	9189.8	4.0
17	10661.3	24	9196.3	6.5
18	10685.3	24	9201.3	5
19	10709.3	24	9207.9	6.6
20	10733.3	24	9213.9	6
21	10757.3	24	9219.9	6
22	10781.4	24.1	9226.2	6.3
23	10805.4	24	9232.3	6.1
24	10829.4	24	9236.4	4.1
25	10853.4	24	9242.3	5.9
26	10877.4	24	9248.3	6
27	10901.4	24	9254.1	5.8
28	10925.4	24	9260.1	6

MARCH 2015
PUMP RUN TIMES

DATE:	#1 PUMP	TIME	#2 PUMP	TIME
3-1-15	10949.3	23.9	9266.1	6
2	10973.2	23.9	9271	4.9
3	10997.3	24.1	9276.7	5.7
4	11021.3	24	9280.7	4
5	11045.3	24	9286.2	5.5
6	11069.3	24	9290.7	4.5
7	11094.1	24.8	9295.2	4.5
8	11121.2	27.1	9301.2	6.0
9	11140.3	19.1	9305.2	4
10	11164.3	24	9311.2	6
11	11188.3	24	9318.6	7.4
12	11212.3	24	9328.4	9.8
13	11236.3	24	9336.3	7.9
14	11260.3	24	9344.4	8.1
15	11284.3	24	9353.5	9.1
16	11308.3	24	9361.5	8
17	11332.3	24	9369	7.5
18	11356.3	24	9377.1	8.1
19	11380.3	24	9384.7	7.6
20	11404.3	24	9391.9	7.2
21	11428.3	24	9398.9	7
22	11452.3	24	9404.9	6
23	11476.3	24	9410.9	6
24	11500.3	24	9417.7	6.8
25	11524.3	24	9424.4	6.7

MARCH 2015

PUMP RUN TIMES

DATE:	#1. PUMP	TIME	#2. PUMP	TIME
MARCH-26	11548.3	24	9431.1	6.7
27	11572.7	24.4	9437.5	6.4
28	11596.6	23.9	9448.9	6.4
29	11620.5	23.9	9450.3	6.4
30	11644.4	23.9	9456.7	6.4
31	11668.3	23.9	9462.4	5.7

APRIL 2015

DATE:	#1. PUMP	TIME	#2. PUMP	TIME
APRIL-1	11692.3	24	9468.8	6.4
2	11716.3	24	9474.4	5.6
3	11740.3	24	9480.1	5.7
4	11763.4	23.1	9486.5	6.4
5	11787.3	23.9	9492.8	6.3
6	11812.3	25	9500.0	7.2
7	11836.3	24	9507.3	7.3
8	11860.3	24	9512.8	5.5
9	11884.3	24	9518.6	5.8
10	11908.3	24	9523.6	5
11	11932.3	24	9529.7	6.1
12	11956.3	24	9536.7	7

APRIL 2015

PUMP RUN TIMES

DATE:	#1 PUMP	TIME	#2 PUMP	TIME
APRIL 13	11980.3	24	9544.7	8
14	12004.3	24	9550.9	6.2
15	12028.3	24	9557.5	6.6
16	12052.3	24	9564.5	7
17	12076.4	24.1	9571.9	7.4
18	12098.9	22.5	9577.5	5.6
19	12124.1	25.2	9584.8	7.3
20	12148.3	24.2	9593.1	8.3
21	12172.3	24	9606.8	13.7
22	12196.2	23.9	9616.4	9.6
23	12220.3	24.1	9626.3	9.9
24	12244.3	24	9634.0	9.7
25	12268.6	24.3	9644.8	8.8
26	12292.5	23.9	9654.1	9.3
27	12316.1	23.6	9665.0	10.9
28	12340.2	24.1	9674.2	9.2
29	12364.3	24.1	9681.4	7.2
30	12388.3	24	9688.5	7.1

MAY 2015

DATE:	#1 PUMP	TIME	#2 PUMP	TIME
5-1-15	12412.3	24	9695.3	6.8
2	12436.7	24.4	9702.4	7.1
3	12462.1	25.4	9710.8	8.4
4	12484.3	22.2	9717.1	6.3

MAY 2015

DATE:	#1 PUMP	TIME	#2 PUMP	TIME
5-5-15	12508.3	24	9724.3	7.2
6	12532.3	24	9732.4	8.1
7	12556.1	23.8	9740.2	7.8
8	12580.6	24.5	9748.2	8
9	12608.7	28.1	9756.8	8.6
10	12629.5	20.8	9762.6	5.8
11	12652.3	22.8	9769.8	7.2
12	12675.7	23.4	9777.2	7.4
13	12699.7	24	9784.3	7.1
14	12723.7	24	9791	6.7
15	12748.3	24.6	9798.1	7.1
16	12771.7	23.4	9805.1	7
17	12795.7	24	9811.1	6
18	12819.7	24	9816.1	5
19	12843.7	24	9822.6	6.5
20	12867.6	23.9	9828.1	5.5
21	12891.6	24	9832.8	4.7
22	12915.6	24	9838.0	5.2
23	12940.3	24.7	9843.0	5.0
24	12964.3	24.0	9848.5	5.5
25	12988.6	24.3	9854.1	5.6
26	13011.6	23	9860.4	6.3
27	13035.6	24.0	9867.0	6.6
28	13059.6	24	9873	6
29	13084.4	24.8	9878.7	5.7

MA9 2015

DATE:	#1 PUMP	TIME	#2 PUMP	TIME
5-30-15	13108.4	24	9994.8	6.1
31	13132.4	24	9891	6.2
JUNE 1	13155.6	23.2	9898	7
2	13179.6	24	9905.4	7.4
3	13203.6	24	9913.8	8.4
4	13227.5	23.9	9919.7	5.9
5	13251.9	24.4	9927.5	7.8
6	13275.5	23.6	9934.5	7.0
7	13299.5	24	9940.5	6.0
8	13323.5	24	9946.7	6.2
9	13347.5	24	9954.8	8.1
10	13371.5	24	9960.7	5.9
11	13395.5	24	9966.5	5.8
12	13419.5	24	9971.4	4.9
13	13443.5	24	9977.5	6.1
14	1367.5	24	9983.6	6.1
15	13491.5	24	9989.8	6.2
16	13515.5	24	9998.6	8.8
17	13539.5	24	10005.3	6.7
18	13563.5	24	10012.5	7.2
19	13587.5	24	10020	7.5

JUNE 2015

PUMP RUN TIMES

DATE:	#1 PUMP	TIME	#2 PUMP	TIME
JUNE 20	13611.3	24	10027.3	7.3
21	13635.5	24	10035.5	8.2
22	13659.5	24	10046.7	11.2
23	13683.5	24	10054.2	7.5
24	13707.5	24	10061.6	7.4
25	13731.7	23.2	10067.8	6.2
26	13755.5	24.8	10073.9	6.1
27	13782.7	27.2	10079.9	6.0
28	13807.8	25.1	10087.2	7.3
29	13827.5	19.7	10092.6	5.4
30	13851.5	24	10099.9	7.3

JULY 2015

DATE:	#1 PUMP	TIME	#2 PUMP	TIME
JULY 1	13875.5	24	10105.3	5.4
2	13899.5	24	10110.5	5.2
3	13923.5	24	10115.2	4.7
4	13952.5	29	10124.0	8.8
5	13974.4	21.9	10128.4	4.4
6	13995.6	21.2	10134.3	5.9
7	14019.5	23.9	10141.1	6.8
8	14043.5	24	10146.5	5.4
9	14067.5	24	10153.	6.5

JULY 2015 PUMP RUN TIMES

DATE:	#1 Pump	TIME	#2 Pump	TIME
July 10	14091.5	24	10158.8	5.8
11	14115.5	24	10164.6	5.8
12	14139.5	24	10169.5	4.9
13	14163.5	24	10172.5	3
14	14187.5	24	10178.4	5.9
15	14211.5	24	10190.7	12.3
16	14235.5	24	10199.5	8.8
17	14259.7	24.2	10205.9	6.4
18	14284.8	25.1	10213.2	7.3
19	14309.2	24.4	10221.0	7.8
20	14331.5	22.3	10227.4	6.4
21	14355.5	24	10234.7	7.3
22	14379.5	24	10240.5	5.8
23	14403.5	24	10246	5.5
24	14427.5	24	10250.4	4.4
25	14451.5	24	10256.5	6.1
26	14475.5	24	10262.6	6.1
27	14499.5	24	10268.6	6.0
28	14523.5	24	10274.1	5.5
29	14547.5	24	10280.1	6
30	14571.5	24	10285.3	5.2
31	14595.5	24	10291.1	5.8

AUGUST 2015

PUMP RUN TIMES

DATE:	#1 pump	TIME	#2 pump	TIME
AUGUST 1	14619.5	24	10294.7	3.6
2	14647.8	28.3	10300.1	5.4
3	14667.5	19.7	10303.8	3.7
4	14691.5	24	10308.2	4.4
5	14715.5	24	10312.4	4.2
6	14739.5	24	10318.1	5.7
7	14763.5	24	10321.5	3.4
8	14787.5	24	10325.4	3.9
9	14811.5	24	10329.7	4.3
10	14835.5	24	10333.2	3.5
11	14859.5	24	10337.7	4.5
12	14883.5	24	10342.3	4.6
13	14907.5	24	10347.6	5.3
14	14931.6	24.1	10353.8	6.2
15	14955.5	23.9	10359	5.2
16	14979.5	24	10364.1	5.1
17	15003.5	24	10368.1	4
18	15027.5	24	10372.4	4.3
19	15051.5	24	10376.4	4
20	15075.5	24	10381	4.6
21	15099.7	24.2	10387.2	6.2
22	15123.5	23.8	10391.4	4.2
23	15147.5	24	10395.4	4.0
24	15171.5	24	10398.8	3.4
25	15195.6	24.1	10403.6	4.8

AUGUST 2015

PUMP-RUN TIMES

DATE:	#1 PUMP	TIME	#2 PUMP	TIME
AUG. 26	15219.5	23.9	10408	4.4
27	15243.5	24	10413.1	5.1
28	15267.5	24	10418.6	5.5
29	15271.5	24	10423.9	5.3
30	15315.5	24	10428.1	5.2
31	15339.5	24	10434.2	5.1
DATE:	#1 PUMP	TIME	#2 PUMP	TIME
SEPT. 1	15363.5	24	10439.4	5.2
2	15387.5	24	10444.7	5.3
3	15411.5	24	10448.4	3.7
4	15436.7	25.2	10452.7	4.3
5	15461.1	24.4	10457.4	4.7
6	15485.9	24.8	10462.1	4.7
7	15507.9	22.0	10466.3	4.2
8	15531.5	23.6	10472.5	6.2
9	15555.5	24	10477.8	5.3
10	15579.5	24	10483.1	5.3
11	15603.5	24	10488.9	5.8
12	15628.1	24.6	10493.8	4.9
13	15658.4	30.3	10502.0	8.2
14	15675.7	17.3	10505.9	3.9

SEPTEMBER 2015

PUMP RUN TIME

DATE	PUMP #1	TIME	PUMP #2	TIME
SEPT. 15	15679.6	23.9	10511.5	5.6
16	15723.5	23.9	10515.9	4.4
17	15747.5	24.0	10520.6	4.7
18	15771.4	23.9	10525.4	4.8
19	15795.4	24	10530.5	5.1
20	15819.5	24.1	10535.7	5.2
21	15843.5	24	10540.7	5
22	15867.5	24	10545.7	5
23	15891.5	24	10551.4	5.7
24	15915.5	24	10558.9	7.5
25	15939.5	24	10566	7.1
26	15963.5	24	10573.2	7.2
27	15987.5	24	10578.2	5
28	16011.5	24	10581.9	3.7
29	16035.5	24	10604.9	23
30	16059.5	24	10619.4	14.5
DATE	PUMP #1	TIME	PUMP #2	TIME
OCT. 1	16083.5	24	10629.4	10
2	16107.5	24	10637	7.6
3	16135.6	28.1	10647.2	10.2
4	16158.7	23.1	10654.9	7.7
5	16179.5	20.8	10661.6	6.7

OCTOBER 2015

PUMP RUN TIME

DATE:	PUMP #1	TIME	PUMP #2	TIME
OCT. 6	16,203.5	24	10,668.9	7.3
7	16,227.4	23.9	10,675.7	6.8
8	16,251.5	24.1	10,682.4	6.7
9	16,275.7	24.2	10,692.6	10.2
10	16,299.9	24.2	10,699.7	7.1
11	16324.4	24.5	10706.9	7.2
12	16347.5	23.1	10714.7	7.8
13	16371.5	24	10722.6	7.9
14	16395.5	24	10729.5	6.9
15	16419.5	24	10736.6	7.1
16	16443.5	24	10743.2	6.6
17	16468.4	24.9	10750.1	6.9
18	16491.5	23.1	10757.0	6.9
19	16515.3	24.8	10765.0	8.0
20	16539.5	24.2	10771.9	6.9
21	16563.5	24.0	10778.4	6.5
22	16587.5	24	10784.2	5.8
23	16611.7	24.2	10793.1	8.9
24	16635.4	23.7	10800.1	7.0
25	16659.1	23.7	10807.2	7.1
26	16683.3	24.2	10814.2	7.0
27	16707.3	24	10821	6.8
28	16724.3	17	10821.6	.6
29	16748.3	24	10822.6	1
30	16772.8	24.5	10822.6	0
31	16796.8	24	10823.2	.6

OCTOBER

PUMP RUN TIMES

NOVEMBER 2015

DATE:	#1 Pump	TIME	#2 Pump	TIME
11-1-15	16,820.8	24	10,823.6	.4
2	16,844.5	23.7	10,823.8	.2
3	16,868.7	24.2	10,823.9	.1
4	16,892.4	23.7	10,823.9	Ø
5	16,916.0	23.6	10824	.1
6	16,940.0	24	10825.4	1.4
7	16,962.7	22.7	10825.8	.4
8	16,985.4	22.7	10826.2	.4
9	17008.1	22.7	10826.8	.6
10	17031.9	23.8	10827.0	.2
11	17055.3	24.4	10827.0	Ø
12	17079.8	24.5	10827.0	Ø
13	17103.9	24.1	10827.0	Ø
14	17127.9	24	10827	Ø
15	17151.8	23.9	10827	Ø
16	17175.7	23.9	10827	Ø
17	17199.7	24	10827	Ø
18	17222.5	22.8	10827	Ø
19	17246.2	23.7	10827	Ø
20	17270.2	24	10827	Ø

NOVEMBER

DATE:	#1 Pump	TIME	#2 Pump	TIME
Nov. 21	17294.3	24.1	10827.0	0
22	17318.4	24.1	10827.0	0
23	17342.5	24.1	10827.0	0
24	17366.2	23.7	10827.0	0
25	17390.6	24.4	10828.7	1.7
26	17414.4	23.8	10828.9	.2
27	17438.3	23.9	10830.9	2.0
28	17467.6	29.3	10833.2	2.3
29	17490.0	22.4	10833.4	.2
30	17510.0	20.0	10834.3	.9

T
DECEMBER

2015

DATE:	#1 Pump	TIME	#2 Pump	TIME
DEC. 1	17534.1	24.1	10837.5	3.2
2	17558	23.9	10840.2	2.7
3	17582	24	10844.4	4.2
4	17606	24	10849.8	5.4
5	17630	24	10852.8	3
6	17654	24	10854.8	2
7	17678	24	10854.8	0
8	17702	24	10856.2	1.4
9	17726.5	24.5	10856.8	.6
10	17749.9	23.4	10859.6	2.8

DECEMBER 2015

DATE	#1 PUMP	RUN TIME	#2 PUMP	RUN TIME
DEC. 11	17774.2	24.3	10862.0	2.4
12	17799.1	24.9	10863.8	1.8
13	17821.1	22.0	10865.4	1.6
14	17846	24.9	10868.5	3.1
15	17869.9	23.9	10870	1.5
16	17894	19.5	10872.6	2.6
17	17917.9	23.5	10874.4	1.8
18	17941.9	24.0	10880.4	6.0
19	17965.9	24.0	10884.1	3.7
20	17989.9	24	10889	4.9
21	18013.9	24	10895.4	6.4
22	18037.9	24	10899.8	4.4
23	18061.9	24	10905.1	5.3
24	18085.8	23.9	10911.6	6.5
25	18108.7	22.9	10917.3	5.7
26	18132.8	24.1	10923.5	6.2
27	18156.9	24.1	10930.5	7.0
28	18181.9	25	10938.5	8.0
29	18205.9	24	10944.5	6
30	18229.9	24	10955.8	11.3
31	18253.8	23.9	10961.2	5.4
	18277.8		10962.4	

#1

BOYER STREET PUMP STATION						
DATE:	TIME:	PUMP #1	HOURS	PUMP #2	HOURS	TOTAL
3-13-15		5.7	-	6.2	-	-
3-16-15		6.4	.7	7.0	.8	1.5
3-17-15		6.5	.1	7.1	.1	.2
3-20-15		7.1	.6	7.7	.6	1.2
3-25-15		8.0	.9	8.6	.9	1.8
4-6-15		10.1	2.1	10.8	2.2	4.3
4-22-15	1015	29.5	19.4	35.3	24.5	43.1
4-23-15	2100	29.7	.2	35.3	0	.2
4-28-15	0800	31	1.3	36.7	1.4	2.7
4-30-15	1435	31.5	.5	37.3	.6	1.1
5-5-15	1000	32.4	.9	38.4	1.1	2
5-13-15	1000	32.4	0	225.9	187.5	187.5
5-14-15	1000	32.4	0	226	.1	.1
5-14-15	1045	32.4	.5	226	0	.5
5-14-15	1600	33	.1	226	0	.1
5-18-15	1020	33.6	.6	226.7	.7	1.3
5-20-15	1000	34.1	.5	227.1	.4	.9
5-21-15	0925	34.2	.1	227.3	.2	.3
5-28-15	0.950	35.5	.3	228.7	.4	.7
6-1-15	0945	36.2	.7	229.3	.6	1.3
6-12-15	1005	38.1	1.9	231.5	2.2	4.1
6-26-15	1000	40.5	1.4	234.1	2.6	4
7-1-15	1440	41.5	1	235.3	1.2	2.2
7-18-15	0940	47	5.2	238	2.7	7.9
7-30-15	1000	59	12	242	4	16
8-18-15	0940	366.3	307.3	246.1	4.1	311.4
8-20-15	0905	366.7	.4	246.4	.3	.7

#2.

BOYER STREET PUMP STATION						
DATE:	TIME:	PUMP #1	HOURS	PUMP #2	HOURS	TOTAL
8-24-15	1000	403.9	37.2	247	.6	37.8
8-24-15	1215	403.9	0	247.2	.2	.2
8-25-15	1000	403.9	0	249	1.8	1.8
8-27-15	0800	404.2	1.3	249.2	.2	1.5
8-29-15	1045	404.3	.1	249.5	.3	.4
8-31-15	1025	404.8	.5	249.9	.4	.9
9-9-15	1000	405.9	1.1	251	1.1	2.2
9-11-15	1020	406.3	.4	251.3	.3	.7
9-21-15	1030	407.8	.5	252.8	1.5	2.0
9-29-15	1005	409.1	1.3	254.1	1.3	2.6
10-5-15	1020	514.7	105.6	255.5	1.4	107
10-6-15	0800	526.2	11.5	255.5	0	11.5
10-7-15	1020	526.3	.1	255.6	.1	.2
10-8-15	1100	526.4	.1	255.7	.1	.2
10-12-15	1120	526.9	.5	256.3	.6	1.1
10-16-15	0910	527.4	.5	256.9	.6	1.1
10-21-15	1015	538	.6	257.7	.8	1.4
10-26-15	1010	528.7	.7	258.4	.7	1.4
10-29-15	1020	529.2	.4	259	.6	1
11-2-15	1020	529.6	.5	259.6	.6	1.1
11-5-15	1025	529.9	.3	260	.4	.7
11-18-15	1000	531.8	1.9	261.9	1.9	3.8
11-27-15	1000	533.3	1.5	263.4	1.5	3
12-2-15	1000	534.2	.9	264.2	.8	1.7
12-7-15	1030	535	.8	265.1	.9	1.7
12-21-15	1000	537	2	267	1.9	3.9
12-31-15	1010	538.6	1.6	269.3	2.3	3.9

ATTACHMENT D

SEWAGE SLUDGE MANAGEMENT INVENTORY

ATTACHMENT D.

SEWAGE SLUDGE MANAGEMENT INVENTORY

The Authority employs wet hauling to dispose of sewage sludge. The Authority has agreements to dispose biosolids at the Harrisburg Advanced Wastewater Treatment Facility, and Kline's Services Inc. During 2015, approximately 11.2 dry tons of biosolids were disposed of which 3.1 dry tons went to Kline's Services Inc. and 8.1 dry tons went to Harrisburg Advanced Wastewater Treatment Facility.

SLUDGE GENERATION CALCULATION

Facility Name: **Halifax Wastewater Treatment Plant**

Permit Number: **PA0024457**

Date of Calculation: **3/15/2016**

Required Information For Calculation

Average Daily Flow (mgd): **0.1043**

Digester Capacity (gal): **42000**

Influent BOD (mg/l): **258**

%Solids of Outgoing Sludge: **2.03**

Effluent BOD (mg/l): **5.6**

Monitoring Period (days): **365**

Wastewater Treatment Processes

Place an "X" in the box beside the corresponding treatment process. Select a maximum of Primary Clarification and one other treatment process

Primary Clarification ☐

Contact Stabilization ☐

RBC ☐

Conventional Activated Sludge ☐

SBR ☐

ABF ☐

Extended Aeration ☒

Trickling Filter ☐

Small Plant with low SOR ☐

(<500 gpd/sq ft)

Operational Information

BOD Removed (lbs/day): **220**

TSS Removed (lbs/day): **143**

Digester Information

Type of Digester

Place an "X" in the box beside the corresponding treatment process.

Aerobic Digestion ☒

Anaerobic Digestion ☐

None ☐

Sludge Feed Rate to Digesters (gpd): **2281.52773**

Digester Hydraulic Detention Time (days): **18**

Estimated Total Solids Reduction (%): **0.3**

Sludge Generation

dry lbs/day **100**

wet lbs/day **4921**

dry tons/monitoring period **18**

wet tons/monitoring period **898**

gal/day **590**

gal/monitoring period **215368**

Amount of Sludge Reported as Being Generated by the Facility

wet tons/monitoring period **0**

OR

dry tons/monitoring period **11.202**

Enter only one of the above values. The remaining value should be "0"

Is the amount reported by the generator within 15% of the calculated value? **NO**

NO explanation: **LESS THAN 15% RANGE**

What type of information was used to calculate the above information: **Information from DMR's**

Dates used: **1/1/2015** TO **12/31/2015**

Name of person performing the calculation: **Joseph A. Bluge**

ATTACHMENT E

FLOW METER CALIBRATION REPORT

W.G. MALDEN

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

SERVICE REPORT

JEFFREY GROSSER
HALIFAX MUNICIPAL AUTHORITY
P.O. BOX 443
HALIFAX, PA 17032

SERVICE DATE: 12/16/2015
METER#: C8201 AA
LOCATION: WASTEWATER - EFFLUENT
SERIAL #: 12286/9404-31238-B02
MANUFACTURER: BADGER/CHESELL
RECORDER: 392
TRANSMITTER: 2210
PRIMARY: 90° V-NOTCH WEIR
MAXIMUM CAPACITY: 347.2 GPM
SERVICE CONTRACT: ANNUAL

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** 0, 50, & 100%
ERROR: 0% **CORRECTED ACCURACY:** $\pm 1\%$

TOTALIZER CALIBRATION **CHECKED AT:** 0, 50 & 100%
ERROR: 0% **CORRECTED ACCURACY:** $\pm 1\%$

TRANSMITTER CALIBRATION

SIMULATED HEAD RISES AND FLOW MEASUREMENTS
ERROR: 0% **CORRECTED ACCURACY:** $\pm 1\%$

COMMENT: PERFORMED ANNUAL CALIBRATION. CLEANED PRIMARY. LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DENNIS/JACOB
copies:

PERSON SEEN: JEFFREY

ATTACHMENT F

MONTHLY DISCHARGE MONITORING REPORTS

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION
SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL

Facility Name: Halifax Area Water and Sewer Authority
Municipality: Halifax Borough
Watershed: 6-C

Month JANUARY 2015

NPDES Permit No. PA 0024457
This permit will expire on May 31, 2016

Outfall No. 001

Influent										Process Control			
DAY	FLOW mgd	BOD ₅ mg/l	BOD ₅ lb/day	TSS mg/l	TSS lb/day	Aeration MLSS (centrifuge)		Aeration DO mg/l		Sludge Wasted			
						No. 1	No. 2	No. 1	No. 2	gallons			
1	0.0780					1.0	1.6	2.2	2.0	1,100			
2	0.0800					1.1	1.9	2.2	2.2	2,000			
3	0.0730					1.0	1.8	2.1	2.1	800			
4	0.1010					1.1	1.9	2.0	2.4	800			
5	0.1090					1.0	1.6	2.4	2.2	2,400			
6	0.0870					0.9	1.5	2.5	2.4	2,400			
7	0.0810	220	149	170	115	1.0	1.5	3.0	2.8	2,400			
8	0.0670					1.0	1.5	2.8	2.5	2,000			
9	0.0700					1.1	1.7	2.5	2.4	1,600			
10	0.0690					1.1	1.7	2.6	2.3	800			
11	0.0640					1.1	1.7	2.7	2.4				
12	0.0900					0.9	1.6	2.5	2.5				
13	0.0840					1.0	1.6	2.7	2.3	1,200			
14	0.0680	210	119	180	102	1.0	1.7	2.6	2.5	1,600			
15	0.0750					1.0	1.5	2.4	2.3	1,600			
16	0.0690					1.1	1.6	2.5	2.4	800			
17	0.0830					1.2	1.6	2.3	2.2	800			
18	0.0800					1.2	1.7	2.7	2.5	800			
19	0.0770					1.2	1.6	2.5	2.3	900			
20	0.0770					1.0	1.9	2.6	2.2	1,800			
21	0.0730	290	177	260	158	1.0	2.0	2.4	2.4	1,400			
22	0.0790					1.1	1.9	2.3	2.4	2,000			
23	0.0770					1.2	1.9	2.5	2.3	2,000			
24	0.0860					1.2	1.9	2.3	2.4	1,400			
25	0.0670					1.2	1.9	2.4	2.2	800			
26	0.0820					1.1	1.7	2.3	2.4	1,600			
27	0.0680					1.0	1.8	2.5	2.3	2,400			
28	0.0700	170	99	140	82	1.0	1.8	2.6	2.6	2,400			
29	0.0670					1.0	1.7	2.6	2.7	1,600			
30	0.0830					1.1	1.8	2.5	2.4	1,000			
31	0.0650					1.1	1.8	2.5	2.5	800			
AVE.	0.0774	223	136	188	114	1.1	1.7	2.5	2.4	1,394			

Check if there were no ☐ biosolids removed from the plant, ☐ hauled-in municipal wastes received, or ☐ hauled-in residual wastes received, or ☐ non-compliance incidents during the month (otherwise attach the appropriate forms).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Jeffrey L. Grosser Signature: _____
Title: Manager Date: _____

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION**

SUPPLEMENTAL REPORT - DAILY EFFLUENT MONITORING

Facility Name:	Halifax Area Water and Sewer Authority	Month	JANUARY	2015
Municipality:	Halifax Borough	NPDES Permit No.	PA 0024457	Outfall No. 001
Watershed:	6-C	Renewal application due 180 days prior to expiration		
Laboratories:	County: Dauphin	This permit will expire on May 31, 2016		

DAY	FLOW mgd	pH SU	D.O. mg/l	TRC mg/l	CBOD 5 mg/l	TSS mg/l		FECAL CFU/100 ml	Weather/Comments (Inches Precipitation)	Outside Temperature (F Deg.)
						Q				
1	0.0780	7.1	6.3	0.47						22
2	0.0800	7.1	6.5	0.54						28
3	0.0730	7.0	6.4	0.47						32
4	0.1010	7.3	6.6	0.45					0.45	37
5	0.1090	7.2	6.6	0.49					0.10	34
6	0.0870	7.1	6.7	0.51					0.15	27
7	0.0810	8.0	6.8	0.54	4.5			12		20
8	0.0670	7.8	6.6	0.52						7
9	0.0700	7.4	6.2	0.50						19
10	0.0690	7.2	6.5	0.40						8
11	0.0640	7.5	6.6	0.48						18
12	0.0900	7.4	6.3	0.46					0.25	36
13	0.0840	7.2	6.5	0.43					0.35	20
14	0.0680	7.3	6.7	0.46	6.9			36		17
15	0.0750	7.1	6.2	0.50						27
16	0.0690	7.3	6.4	0.46						26
17	0.0830	7.1	6.1	0.40						12
18	0.0800	7.4	6.2	0.41						28
19	0.0770	7.3	6.4	0.44						36
20	0.0770	7.2	6.3	0.22						32
21	0.0730	7.1	6.1	0.56	4.0			22		27
22	0.0790	7.2	6.0	0.49					0.10	31
23	0.0770	7.5	6.3	0.48						35
24	0.0860	7.3	6.5	0.41					0.25	34
25	0.0670	7.4	6.7	0.40						42
26	0.0820	7.5	6.1	0.59					0.25	26
27	0.0680	7.3	6.3	0.48					0.50	28
28	0.0700	7.4	6.5	0.54	2.4			110		12
29	0.0670	7.5	6.4	0.46						15
30	0.0830	7.2	6.1	0.52						25
31	0.0650	7.1	6.3	0.54						14
AVE.	0.0774	7.3	6.4	0.47	4.5		10.7	32	2.40 (Total)	25

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By:	Jeffrey L. Grosser	Signature:	_____
Title:	Manager	Date:	_____

SUPPLEMENTAL REPORT

SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL

JANUARY 2015

NPDES Permit No. PA 0024457

This permit will expire on May 31, 2016

☐ Check here if there were no off-site removal events during the month

Liquid Sewage Sludge / Biosolids Hauled Off-site					Dewatered Sewage Sludge / Biosolids Hauled Off-site				Sewage Sludge / Biosolids Dewatered and Incinerated On-site			
Date	Gallons	% Solids	X Conv. Factor	= Dry Tons	Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons	Tons dewatered	X % Solids	= Dry Tons	
1/30/15	8,000	1.8	X 0.0000417	0.450			X 0.01					
			X 0.0000417				X 0.01					
			X 0.0000417				X 0.01					
			X 0.0000417				X 0.01					
			X 0.0000417				X 0.01					
			X 0.0000417				X 0.01					
1/30/15	8,000	2.1	X 0.0000417	0.525			X 0.01					
1/30/15	8,000	2.0	X 0.0000417	0.500			X 0.01					
			X 0.0000417				X 0.01					
			X 0.0000417				X 0.01					
			X 0.0000417				X 0.01					
			X 0.0000417				X 0.01					
			X 0.0000417				X 0.01					
			X 0.0000417				X 0.01					
	18,000	2.0	X 0.0000417				X 0.01					
			TOTAL:	1.476			TOTAL:	0.00		TOTAL:	0.00	

SEWAGE SLUDGE/BIOSOLIDS AND INCINERATOR ASH DISPOSAL AND BENEFICIAL USE INFORMATION
(Identify all sites where sewage sludge/biosolids or ash were disposed or land applied)

	SITE 1	SITE 2	SITE 3
Site Name:	Kline's Septic		
Municipality	Salunga	Harrisburg Sewer Plant	
County:	Lancaster	Dauphin	
DEP Permit Number:	101807	27198	
Type of Material*	Liquid Biosolids	Liquid Biosolids	
Dry Tons Disposal:	0.45038	1.02582	
Gallons Disposed:	6,000	12,000	
Type of Disposal/Use*:	Sewer Plant	Sewer Plant	
Hauler Name:	Kline's Septic	Kline's Septic	

^a See instructions for explanation

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Jeffrey L. Grosser
Title: Manager

Signature: _____
Date: _____

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION
SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL

Facility Name: Halfax Area Water and Sewer Authority
Municipality: Halfax Borough
Watershed: 6-C

Month FEBRUARY 2015
NPDES Permit No. PA 0024457
This permit will expire on May 31, 2016

Outfall No. 001

DAY	Influent					Process Control				
	FLOW	BOD ₅	BOD ₅	TSS	TSS	Aeration MLSS (centrifuge)		Aeration DO mg/l		Sludge Wasted
	mgd	mg/l	lb/day	mg/l	lb/day	No. 1	No. 2	No. 1	No. 2	gallons
1	0.0720					1.1	1.8	2.6	2.6	800
2	0.0690					1.0	1.7	2.7	2.4	2,000
3	0.0750					1.1	1.6	2.6	2.7	1,000
4	0.0650	110	60	120	65	1.2	1.5	2.7	2.5	2,400
5	0.0810					1.3	1.4	2.4	2.3	2,400
6	0.0590					1.5	1.2	2.7	2.6	2,000
7	0.0820					1.5	1.2	2.6	2.5	800
8	0.0710					1.5	1.2	2.5	2.3	800
9	0.0990					1.3	1.0	2.5	2.4	2,000
10	0.0770					1.4	1.1	2.5	2.3	2,400
11	0.0770	260	167	180	116	1.3	1.0	2.6	2.5	2,000
12	0.0780					1.3	1.0	2.5	2.3	2,000
13	0.0670					1.4	1.0	2.7	2.5	2,000
14	0.0680					1.4	1.0	2.5	2.5	800
15	0.0670					1.3	1.0	2.6	2.5	800
16	0.0420					1.4	1.0	2.5	2.5	800
17	0.0570					1.3	1.1	2.5	2.4	2,400
18	0.0540	190	86	120	54	1.3	1.3	2.8	2.6	1,600
19	0.0720					1.4	1.3	2.6	2.4	2,400
20	0.0680					1.4	1.2	2.7	2.5	2,000
21	0.0700					1.4	1.3	2.5	2.4	800
22	0.0560					1.5	1.2	2.6	2.4	800
23	0.0830					1.3	1.2	2.5	2.3	2,400
24	0.0610					1.2	1.1	2.8	2.5	2,400
25	0.0610	180	92	230	117	1.3	1.2	2.4	2.2	2,000
26	0.0800					1.2	1.2	2.5	2.4	2,800
27	0.0670					1.1	1.1	2.6	2.4	2,400
28	0.0570					1.2	1.2	2.4	2.3	800
29										
30										
31										
AVE.	0.0691	185	101	163	88	1.3	1.2	2.6	2.4	1,707

Check if there were no ☐ biosolids removed from the plant, ☐ hauled-in municipal wastes received, or ☐ hauled-in residual wastes received, during the month (otherwise attach the appropriate forms).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Jeffrey L. Grosser Signature: _____
Title: Manager Date: _____

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION**

SUPPLEMENTAL REPORT - DAILY EFFLUENT MONITORING

Facility Name:	Halifax Area Water and Sewer Authority	Month	FEBRUARY	2015
Municipality:	Halifax Borough	NPDES Permit No.	PA 0024457	Outfall No. 001
Watershed:	6-C	Renewal application due 180 days prior to expiration		
Laboratories:	County: Dauphin	This permit will expire on May 31, 2016		

DAY	FLOW mgd	pH	D.O. mg/l	TRC mg/l	CBOD 5 mg/l	TSS mg/l	FECAL		Weather/Comments (Inches Precipitation)	Outside Temperature (F Deg.)
							Q	CFU/100 ml		
1	0.0720	7.2	6.4	0.48						25
2	0.0890	7.3	6.2	0.50					0.75	36
3	0.0750	7.2	6.5	0.44						16
4	0.0650	7.1	6.3	0.52	7.3	25.0		2		22
5	0.0810	7.2	6.4	0.47						31
6	0.0590	7.3	6.6	0.48						8
7	0.0620	7.1	6.2	0.51						23
8	0.0710	7.0	6.5	0.49						33
9	0.0990	7.3	6.4	0.48					0.25	34
10	0.0770	7.1	6.5	0.51					0.05	30
11	0.0770	7.1	6.2	0.50	4.0	6.4		12		22
12	0.0780	7.2	6.3	0.47						33
13	0.0670	7.3	6.6	0.46						9
14	0.0880	7.1	6.3	0.50						12
15	0.0670	7.2	6.4	0.47						10
16	0.0420	7.1	6.6	0.45						4
17	0.0570	7.3	6.5	0.48					0.15	10
18	0.0540	7.5	6.6	0.51	4.4	7.2		10		4
19	0.0720	7.2	6.4	0.46						14
20	0.0680	7.1	6.5	0.43						2
21	0.0700	7.3	6.6	0.42						19
22	0.0560	7.1	6.4	0.56					0.35	20
23	0.0830	7.1	6.2	0.35				6,000		14
24	0.0610	7.2	6.4	0.47						26
25	0.0610	7.3	6.6	0.49	6.8	26.0				18
26	0.0800	7.2	6.7	0.48						10
27	0.0670									
28	0.0570									
29										
30		#REF!	#REF!	#REF!				#REF!	#REF!	#REF!
31		#REF!	#REF!	#REF!				#REF!	#REF!	#REF!
AVE.	0.0691	7.2	6.4	0.47	5.6	16.2		35	1.55 (Total)	18

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By:	Jeffrey L. Grosser	Signature:	_____
Title:	Manager	Date:	_____

SUPPLEMENTAL REPORT SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL

FEBRUARY 2015
NPDES Permit No. PA 0024457
This permit will expire on May 31, 2016

[illegible]

	SITE 1	SITE 2	SITE 3
Site Name:	Kline's Septic	Harrisburg Sewer Plant	
Municipality	Salunga	Harrisburg	
County:	Lancaster	Dauphin	
DEP Permit Number:	101607	27198	
Type of Material*	Liquid Biosolids	Liquid Biosolids	
Dry Tons Disposal:	0	0.45036	
Gallons Disposed:	0	6,000	
Type of Disposal/Use:	Sewer Plant	Sewer Plant	
Hauler Name:	Kline's Septic	Kline's Septic	

(certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Jeffrey L. Grosser
Title: Manager

Signature: _____
Date: _____

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION
SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL

Facility Name: Halifax Area Water and Sewer Authority
Municipality: Halifax Borough
Watershed: 6-C

Month MARCH 2015
NPDES Permit No. PA 0024457
This permit will expire on May 31, 2016

Outfall No. 001

DAY	Influent					Process Control				
	FLOW mgd	BOD ₅ mg/l	BOD ₅ lb/day	TSS mg/l	TSS lb/day	Aeration MLSS (centrifuge)		Aeration DO mg/l		Sludge Wasted gallons
1	0.0690					No. 1	No. 2	No. 1	No. 2	
2	0.0690					1.2	1.2	2.5	2.5	800
3	0.0820					1.0	1.1	2.3	2.4	1,600
4	0.0650	222	120	146	79	1.1	1.1	2.6	2.6	1,200
5	0.0920					1.4	1.0	2.5	2.4	800
6	0.0570					1.5	1.2	2.4	2.5	2,400
7	0.0820					1.4	1.2	2.3	2.3	1,600
8	0.0890					1.4	1.1	2.3	2.2	800
9	0.0830					1.4	1.2	2.8	2.4	800
10	0.0970					1.2	1.2	2.7	2.6	2,400
11	0.1170	143	140	106	103	1.1	1.2	2.6	2.7	2,400
12	0.1460					1.0	1.1	2.4	2.3	1,600
13	0.1130					1.1	1.2	2.6	2.4	2,400
14	0.1020					1.1	1.1	2.5	2.5	2,400
15	0.1420					1.1	1.2	2.4	2.3	800
16	0.1300					1.2	1.2	2.3	2.3	800
17	0.1230					1.0	1.0	2.5	2.3	2,400
18	0.1220	240	244	312	317	1.0	1.0	2.5	2.4	1,600
19	0.1190					1.0	1.0	2.4	2.8	1,600
20	0.0640					1.0	1.0	2.5	2.6	1,600
21	0.0820					1.1	1.1	2.7	2.7	1,600
22	0.1180					1.1	1.0	2.4	2.6	800
23	0.0910					1.1	1.1	2.6	2.7	800
24	0.0920					1.0	1.1	2.4	2.7	1,600
25	0.0930	81	63	160	124	1.0	1.0	2.7	2.5	1,600
26	0.1020					1.1	1.1	2.6	2.5	1,600
27	0.1090					1.0	1.0	2.5	2.6	1,600
28	0.0680					1.0	1.0	2.7	2.8	1,600
29	0.0880					1.0	1.0	2.6	2.5	800
30	0.0980					1.0	1.0	2.4	2.9	800
31	0.1000					1.0	1.0	2.6	2.6	1,600
AVE.	0.0976	171	142	181	156	1.0	1.0	2.5	2.4	1,600
						1.1	1.1	2.5	2.5	1,484

Check if there were no ☐ biosolids removed from the plant, ☐ hauled-in municipal wastes received, ☐ hauled-in residual wastes received, or ☐ non-compliance incidents during the month (otherwise attach the appropriate forms).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Jeffrey L. Grosser Signature: _____
Title: Manager Date: _____

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION

SUPPLEMENTAL REPORT - DAILY EFFLUENT MONITORING

Facility Name: Halifax Area Water and Sewer Authority
Municipality: Halifax Borough
County: Dauphin
Watershed: 6-C
Laboratories: _____

Month: MARCH 2015
NPDES Permit No. PA 0024457
Outfall No. 001
Renewal application due 180 days prior to expiration
This permit will expire on May 31, 2016

DAY	EFFLUENT PARAMETERS										Weather/Comments (Inches Precipitation)	Outside Temperature (F Deg.)
	FLOW	pH	D.O.	TRC	CBOD 5	TSS	FECAL					
							mgd	SU	mg/l	mg/l		
1	0.0690	7.4	6.9	0.46								19
2	0.0690	7.3	6.4	0.49							0.35	21
3	0.0820	7.5	6.4	0.47								26
4	0.0650	7.3	6.5	0.51	7.8	11.0				4	0.25	33
5	0.0920	7.1	6.3	0.43								34
6	0.0570	6.2	6.5	0.44								8
7	0.0520	7.2	6.4	0.46								6
8	0.0890	7.3	6.4	0.54								38
9	0.0830	7.1	6.2	0.49								36
10	0.0970	7.2	6.3	0.46								32
11	0.1170	7.0	6.1	0.51	3.3	6.0				480	0.30	36
12	0.1460	7.1	6.0	0.46								34
13	0.1130	7.2	6.3	0.47								35
14	0.1020	7.4	6.1	0.45							0.25	37
15	0.1420	7.5	6.4	0.48								41
16	0.1300	7.3	6.2	0.47								26
17	0.1230	7.1	6.3	0.51							0.05	45
18	0.1220	7.4	6.5	0.58	4.3	6.0				1,200		32
19	0.1190	7.3	6.3	0.56								32
20	0.0840	7.1	6.4	0.50								34
21	0.0920	7.5	6.2	0.57							0.10	33
22	0.1180	7.4	6.6	0.49								34
23	0.0910	7.2	6.1	0.44								28
24	0.0920	7.1	6.4	0.50								32
25	0.0930	7.3	6.2	0.48	4.0	5.0				710		26
26	0.1020	7.1	6.0	0.52							0.05	34
27	0.1090	7.3	6.3	0.58							0.25	40
28	0.0880	7.2	6.2	0.49								30
29	0.0880	7.1	6.4	0.51								24
30	0.0990	7.3	6.2	0.47								42
31	0.1000	7.2	6.4	0.45								39
AVE.	0.0976	7.2	6.3	0.49	4.9	7.0				201	1.60 (Total)	31

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Jeffrey L. Grosser
Title: Manager
Signature: _____
Date: _____

SUPPLEMENTAL REPORT SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL

MARCH 2015

NPDES Permit No. PA 0024457

This permit will expire on May 31, 2016

☐ Check here if there were no off-site removal events during the month[illegible]

SEWAGE SLUDGE/BIOSOLIDS AND INCINERATOR ASH DISPOSAL AND BENEFICIAL USE INFORMATION
(Identify all sites where sewage sludge/biosolids or ash were disposed or land applied)

	SITE 1	SITE 2	SITE 3
Site Name:	Kline's Septic	Harrisburg Sewer Plant	
Municipality	Salunga	Harrisburg	
County:	Lancaster	Dauphin	
DEP Permit Number:	101607	27198	
Type of Material*	Liquid Biosolids	Liquid Biosolids	
Dry Tons Disposal:	0	0	
Gallons Disposed:	0	0	
Type of Disposal/Use:*	Sewer Plant	Sewer Plant	
Hauler Name:	Kline's Septic	Kline's Septic	

* See Instructions for explanation

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Jeffrey L. Grosser
Title: Manager

Signature: _____

Date: _____

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION
SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL

Facility Name: Halifax Area Water and Sewer Authority
Municipality: Halifax Borough
Watershed: 6-C

Month APRIL 2015

NPDES Permit No. PA 0024467 Outfall No. 001
This permit will expire on May 31, 2016

DAY	Influent					Process Control				
	FLOW mgd	BOD ₅ mg/l	BOD ₆ lb/day	TSS mg/l	TSS lb/day	Aeration MLSS (centrifuge)		Aeration DO mg/l		Sludge Wasted gallons
1	0.0970	182	147	158	128	No. 1 1.0	No. 2 1.0	No. 1 2.6	No. 2 2.5	1,600
2	0.0910					1.0	1.4	2.3	1.8	1,600
3	0.1020					0.9	1.0	2.2	2.0	1,000
4	0.1080					1.0	1.0	2.4	2.2	800
5	0.1020					1.0	1.0	2.1	2.0	800
6	0.1020					1.0	1.0	2.5	2.2	1,600
7	0.1030					1.0	1.0	2.6	2.3	1,600
8	0.1010	202	170	122	103	1.0	1.0	2.0	2.4	1,600
9	0.0940					1.0	1.0	2.4	2.0	1,600
10	0.1110					1.0	1.0	2.4	2.1	1,600
11	0.0920					1.1	1.1	2.5	2.5	800
12	0.0970					1.1	1.1	2.3	2.3	800
13	0.1230					0.8	0.7	2.5	2.0	400
14	0.1120					1.0	0.8	2.4	2.1	800
15	0.1030	216	186	124	107	1.0	0.9	2.3	2.3	1,200
16	0.1040					1.0	0.8	2.5	2.0	1,600
17	0.1080					1.0	0.8	2.7	2.2	1,600
18	0.0980					1.0	0.9	2.6	2.3	800
19	0.1180					1.0	0.9	2.6	2.5	800
20	0.1140					0.9	0.8	2.6	2.3	800
21	0.1790					0.8	0.8	2.7	2.4	800
22	0.1460	221	269	140	170	0.8	0.8	2.5	1.8	800
23	0.1370					0.7	0.8	2.8	2.3	600
24	0.1400					0.8	0.8	2.7	2.5	800
25	0.1010					0.8	0.8	2.8	2.5	800
26	0.1040					0.8	0.8	2.8	2.3	800
27	0.1310					0.8	0.7	2.7	2.5	800
28	0.1180					0.8	0.7	2.8	2.4	800
29	0.1150	234	224	184	176	0.8	0.8	2.6	2.3	800
30	0.1170					0.8	0.9	1.5	1.9	800
31										
AVE.	0.1123	211	199	146	137	0.9	0.9	2.5	2.2	1,040

Check if there were no ☐ biosolids removed from the plant, ☐ hauled-in municipal wastes received, ☐ hauled-in residual wastes received, or ☐ non-compliance incidents during the month (otherwise attach the appropriate forms).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Jeffrey L. Grosser

Signature: _____

Title: Manager

Date: _____

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION**

SUPPLEMENTAL REPORT - DAILY EFFLUENT MONITORING

Facility Name: <u>Halifax Area Water and Sewer Authority</u>	Month <u>APRIL</u> 2015	Outfall No. 001
Municipality: <u>Halifax Borough</u>	NPDES Permit No. <u>PA 0024457</u>	
Watershed: <u>6-C</u>	County: <u>Dauphin</u>	
Laboratories: _____	Renewal application due 180 days prior to expiration This permit will expire on May 31, 2016	

DAY	FLOW mgd	pH	D.O. mg/l	TRC mg/l	CBOD 5 mg/l	TSS mg/l	FECAL		Weather/Comments (Inches Precipitation)	Outside Temperature (F Deg.)
							Q	CFU/100 ml		
1	0.0970	7.0	5.8	0.51	4.8	8.0		2		33
2	0.0910	7.2	7.1	0.56						36
3	0.1020	7.3	6.7	0.65						55
4	0.1080	7.2	6.1	0.54					0.30	48
5	0.1020	7.4	6.5	0.51						39
6	0.1020	7.4	6.5	0.54						36
7	0.1030	7.6	7.1	0.50						52
8	0.1010	7.5	7.0	0.62	6.4	17.0		2	0.05	46
9	0.0940	7.6	7.2	0.54					0.10	42
10	0.1110	7.6	7.3	0.34					0.20	43
11	0.0920	7.4	7.2	0.42					0.10	45
12	0.0970	7.5	7.1	0.40						29
13	0.1230	7.5	7.3	0.39						46
14	0.1120	7.4	7.1	0.49					0.05	56
15	0.1030	7.2	7.0	0.51	4.1	25.0		22		46
16	0.1040	7.5	6.7	0.53					0.10	42
17	0.1080	7.3	6.8	0.50						56
18	0.0980	7.1	7.0	0.47						68
19	0.1180	7.1	6.9	0.44						56
20	0.1140	7.2	6.7	0.46					0.50	53
21	0.1790	7.5	6.9	0.42					1.80	54
22	0.1460	7.4	6.0	0.45	4.1	7.0		320		48
23	0.1370	7.2	7.0	0.52					0.10	41
24	0.1400	7.1	6.3	0.49						38
25	0.1010	7.2	6.7	0.53						35
26	0.1040	7.1	6.4	0.52						40
27	0.1310	7.2	6.6	0.45						42
28	0.1180	7.0	6.8	0.49						50
29	0.1150	7.1	6.3	0.51	3.2	6.0		330		48
30	0.1170	7.6	6.7	0.50						60
31										
AVE.	0.1123	7.3	6.8	0.49	4.5	12.6		25	3.30 (Total)	46

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: <u>Jeffrey L. Grosser</u>	Signature: _____
Title: <u>Manager</u>	Date: _____

SUPPLEMENTAL REPORT SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL

APRIL 2015
NPDES Permit No. PA 00244
This permit will expire on M

[illegible]

	SITE 1	SITE 2	SITE 3
Site Name:	Kline's Septic	Harrisburg Sewer Plant	
Municipality	Salunga	Harrisburg	
County:	Lancaster	Dauphin	
DEP Permit Number:	101807	27198	
Type of Material*	Liquid Biosolids	Liquid Biosolids	
Dry Tons Disposal:	0.55044	1.72638	
Gallons Disposed:	6,000	18,000	
Type of Disposal/Use:*	Sewer Plant	Sewer Plant	
Hauler Name:	Kline's Septic	Kline's Septic	

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Jeffrey L. Crosser
Title: Manager

Signature: _____

Date: _____

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION
SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL

Facility Name: Halifax Area Water and Sewer Authority
Municipality: Halifax Borough
Watershed: 6-C

Month MAY 2015
NPDES Permit No. PA 0024457
This permit will expire on May 31, 2016

Outfall No. 001

DAY	Influent					Process Control				
	FLOW	BOD ₅	BOD ₆	TSS	TSS	Aeration MLSS (centrifuge)		Aeration DO mg/l		Sludge Wasted
	mgd	mg/l	lb/day	mg/l	lb/day	No. 1	No. 2	No. 1	No. 2	gallons
1	0.1160					0.8	1.0	1.7	2.2	800
2	0.1090					0.9	1.0	1.9	2.1	800
3	0.1180					0.9	1.0	1.9	2.1	800
4	0.1260					0.7	0.8	2.1	2.2	800
5	0.1320					0.7	0.9	1.8	2.0	800
6	0.1260	167	175	17	18	0.8	0.9	1.9	2.1	800
7	0.1190					0.8	1.0	2.0	2.1	800
8	0.1260					0.9	1.0	1.8	2.0	800
9	0.1450					0.9	1.0	1.9	2.0	800
10	0.1110					0.8	0.9	1.7	2.0	800
11	0.1330					0.8	0.9	2.1	2.2	800
12	0.1320					0.9	1.0	2.0	2.1	800
13	0.1200	318	318	429	429	0.9	1.0	2.8	2.0	800
14	0.1010					1.0	1.0	2.7	2.2	800
15	0.1220					1.0	1.0	2.6	2.0	1200
16	0.0960					1.0	1.0	2.4	2.2	800
17	0.1210					1.0	1.0	2.5	2.2	800
18	0.1300					0.8	0.8	2.3	2.0	1600
19	0.1460					0.8	0.8	2.4	2.2	800
20	0.1230	301	309	326	334	0.8	0.8	2.2	2.1	800
21	0.1250					0.8	0.8	2.0	2.2	800
22	0.1000					0.8	0.8	1.9	2.1	800
23	0.1070					0.8	0.9	1.6	1.8	800
24	0.1010					0.8	0.8	1.8	1.7	800
25	0.1160					0.8	0.8	1.9	1.9	1200
26	0.1270					0.8	1.0	2.1	1.9	1600
27	0.1320	531	585	498	548	0.8	1.0	2.2	2.1	1600
28	0.1230					0.9	1.0	2.0	1.8	1600
29	0.1220					0.9	1.0	2.1	1.9	2,000
30	0.1180					0.9	1.0	2.2	2.0	800
31	0.1290					0.9	1.0	2.0	1.7	800
AVE.	0.1210	329	347	317	332	0.9	0.9	2.1	2.0	968

Check if there were no ☐ biosolids removed from the plant, ☐ hauled-in municipal wastes received, ☐ hauled-in residual wastes received, or ☐ non-compliance incidents during the month (otherwise attach the appropriate forms).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Jeffrey L. Grosser
Manager

Signature: _____
Date: _____

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION

SUPPLEMENTAL REPORT - DAILY EFFLUENT MONITORING

Facility Name: Halifax Area Water and Sewer Authority
Municipality: Halifax Borough
County: Dauphin
Watershed: 6-C
Laboratories:

Month MAY 2015
NPDES Permit No. PA 0024457
Outfall No. 001
Renewal application due 180 days prior to expiration
This permit will expire on May 31, 2016

DAY	EFFLUENT PARAMETERS										Weather/Comments (Inches Precipitation)	Outside Temperature (F Deg.)
	FLOW <i>mgd</i>	pH	D.O. <i>mg/l</i>	TRC <i>mg/l</i>	CBOD 5 <i>mg/l</i>	TSS <i>mg/l</i>	FECAL					
							Q	CFU/100 ml				
1	0.1160	7.1	6.5	0.59						0.05	52	
2	0.1090	7.2	6.6	0.50							62	
3	0.1180	7.1	6.5	0.46							55	
4	0.1260	7.2	6.3	0.48							62	
5	0.1320	7.0	6.1	0.46							64	
6	0.1260	7.1	6.3	0.51	3.9	10.0		4,100			62	
7	0.1190	7.2	6.5	0.48						0.40	57	
8	0.1260	7.0	6.2	0.53							64	
9	0.1450	7.1	6.3	0.49							64	
10	0.1110	7.3	6.4	0.52							71	
11	0.1330	7.2	6.5	0.43							72	
12	0.1320	7.4	6.6	0.47						0.25	65	
13	0.1200	7.5	6.3	0.54	4.3	5.0		4,800			58	
14	0.1010	7.3	6.5	0.52							47	
15	0.1220	7.4	6.4	0.56							52	
16	0.0960	7.5	6.5	0.51							62	
17	0.1210	7.4	6.4	0.50						0.15	64	
18	0.1300	7.2	6.4	0.51							68	
19	0.1460	7.1	6.6	0.51						1.00	66	
20	0.1230	7.5	7.8	0.56	6.8	19.0		16			60	
21	0.1250	7.3	7.6	0.49							57	
22	0.1000	7.5	7.8	0.47							57	
23	0.1070	7.4	7.1	0.48							49	
24	0.1010	7.3	7.0	0.52							62	
25	0.1160	7.4	7.1	0.45							65	
26	0.1270	7.5	6.4	0.42							65	
27	0.1320	7.3	6.6	0.52	4.2	5.0		7,900			67	
28	0.1230	7.4	6.8	0.47						0.10	64	
29	0.1220	7.5	6.9	0.47							62	
30	0.1180	7.6	6.7	0.48							63	
31	0.1290	7.2	6.9	0.41						0.10	61	
AVE.	0.1210	7.3	6.7	0.49	4.8	9.8		1,256		2.05 (Total)	61	

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Jeffrey L. Grosser
Title: Manager
Signature: _____
Date: _____

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION

SUPPLEMENTAL REPORT SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL

Facility Name:	Hallifax Area Water and Sewer Authority
Municipality:	Hallifax Borough
Watershed:	6-C

MAY 2015

NPDES Permit No. PA 0024467

☐ Check here if there were no off-site removal events during the month[illegible]

SEWAGE SLUDGE/BIO-SOLIDS AND INCINERATOR ASH DISPOSAL AND BENEFICIAL USE INFORMATION
(Identify all sites where sewage sludge/biosolids or ash were disposed or land applied)

	SITE 1	SITE 2	SITE 3
Site Name:	Kline's Septic		
Municipality	Salunga	Harrisburg Sewer Plant	
County:	Lancaster	Dauphin	
DEP Permit Number:	101607	27188	
Type of Material*	Liquid Biosolids	Liquid Biosolids	
Dry Tons Disposal:	0	0	
Gallons Disposed:	0	0	
Type of Disposal/Use:*	Sewer Plant	Sewer Plant	
Hauler Name:	Kline's Septic	Kline's Septic	

* See instructions for explanation

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Jeffrey L. Grosser
Title: Manager

Signature: _____
Date: _____

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION
SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL

Facility Name: Halifax Area Water and Sewer Authority Month: JUNE 2015
Municipality: Halifax Borough NPDES Permit No. PA 0024457 Outfall No. 001
Watershed: 6-C This permit will expire on May 31, 2016

DAY	Influent					Process Control				
	FLOW	BOD ₅	BOD ₆	TSS	TSS	Aeration MLSS (centrifuge)		Aeration DO		Sludge Wasted
	mgd	mg/l	lb/day	mg/l	lb/day	No. 1	No. 2	No. 1	No. 2	gallons
1	0.1380					0.9	0.9	2.1	1.9	2,400
2	0.1160					1.0	1.0	2.0	2.0	2,400
3	0.1340	435	486	410	458	1.0	1.0	2.1	2.1	1,600
4	0.0950					1.0	1.0	2.0	2.2	1,600
5	0.1270					1.0	1.0	2.0	2.4	2,400
6	0.1030					1.0	1.0	2.1	2.2	800
7	0.1220					1.0	1.0	2.0	2.3	800
8	0.1290					1.2	1.0	1.7	1.8	1,600
9	0.1330					1.7	0.9	2.0	1.8	1,800
10	0.1150	494	474	690	662	1.8	1.0	2.1	1.9	1,800
11	0.1240					1.7	1.0	1.9	1.8	2,000
12	0.1250					2.0	1.1	1.1	1.8	1,800
13	0.1140					1.9	1.2	1.7	1.9	800
14	0.1280					1.9	1.2	1.5	1.7	800
15	0.1380					1.6	1.2	1.7	1.9	2,400
16	0.1350					1.8	1.1	1.9	2.0	2,400
17	0.1220	871	886	220	224	1.6	1.2	1.8	2.0	2,400
18	0.1220					1.5	1.3	1.9	2.1	1,600
19	0.1380					1.5	1.4	1.8	1.9	2,000
20	0.1180					1.5	1.5	1.9	1.7	800
21	0.1690					1.5	1.5	2.0	2.0	800
22	0.1720					1.8	1.5	1.6	2.5	2,800
23	0.1430					1.8	1.3	1.8	1.8	2,800
24	0.1360	180	204	150	170	1.4	1.3	1.9	2.0	2,800
25	0.1400					1.3	1.3	2.0	1.7	2,000
26	0.1000					1.2	1.3	1.9	1.7	2,400
27	0.1300					1.3	1.3	1.9	1.9	
28	0.1540					1.0	1.2	1.8	2.0	
29	0.1150					1.3	1.5	1.7	2.0	2,400
30	0.1350					1.5	1.4	1.9	2.1	2,400
31										
AVE.	0.1290	495	513	368	378	1.4	1.2	1.9	2.0	1,753

Check if there were no ☐ biosolids removed from the plant, ☐ hauled-in municipal wastes received, or ☐ hauled-in residual wastes received, during the month (otherwise attach the appropriate forms).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Jeffrey L. Grosser Signature: _____
Manager Date: _____

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION

SUPPLEMENTAL REPORT - DAILY EFFLUENT MONITORING

Facility Name: Halifax Area Water and Sewer Authority
Municipality: Halifax Borough
Watershed: 6-C
Laboratories: County: Dauphin

Month: JUNE 2015
NPDES Permit No. PA 0024457
Outfall No. 001
Renewal application due 180 days prior to expiration
This permit will expire on May 31, 2016

DAY	FLOW mgd	pH	D.O. mg/l	TRC mg/l	CBOD 5 mg/l	TSS mg/l	FECAL		Weather/Comments (Inches Precipitation)	Outside Temperature (F Deg.)
							Q	CFU/100 ml		
1	0.1380	7.8	5.6	0.41					0.35	66
2	0.1160	7.6	5.0	0.44					0.80	54
3	0.1340	7.4	5.3	0.57	21.5	6.0		950	0.50	57
4	0.0950	7.7	5.0	0.49						60
5	0.1270	7.3	5.6	0.48						60
6	0.1030	7.5	5.5	0.47					0.15	75
7	0.1220	7.4	5.7	0.47						64
8	0.1290	7.9	5.7	0.47						74
9	0.1330	7.7	5.9	0.36					1.05	66
10	0.1150	7.6	5.3	0.50	15.5	17.0		8,400		72
11	0.1240	7.4	5.5	0.56						68
12	0.1250	7.5	5.2	0.50					0.10	66
13	0.1140	7.3	5.4	0.48					0.10	76
14	0.1280	7.6	5.2	0.48						78
15	0.1380	7.5	5.5	0.43					0.35	74
16	0.1350	7.3	5.7	0.47					0.35	76
17	0.1220	7.4	5.9	0.57	12.0	16.0		1,600		72
18	0.1220	7.3	5.6	0.82					0.10	66
19	0.1380	7.4	5.3	0.47					0.45	70
20	0.1180	7.2	5.5	0.42					0.10	64
21	0.1690	7.5	5.1	0.45					0.10	67
22	0.1720	7.6	5.3	0.40				840	0.95	65
23	0.1430	7.5	5.6	0.66						72
24	0.1360	7.5	5.6	0.52	7.0	12.2		6,600	0.25	64
25	0.1400	7.4	6.8	0.65				260		62
26	0.1000	7.3	6.6	0.52					0.10	66
27	0.1300	7.4	6.5	0.48						68
28	0.1540	7.3	6.2	0.39					0.65	68
29	0.1150	7.2	6.0	0.36					0.10	62
30	0.1350	7.4	606.0	0.49					0.05	68
31										
AVE.	0.1290	7.5	25.6	0.49	14.0	12.8		1,625	6.60 (Total)	67

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Jeffrey L. Grosser
Title: Manager
Signature: _____
Date: _____

SUPPLEMENTAL REPORT SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL

JUNE 2015
NPDES Permit No. PA 00244
This permit will expire on M

[illegible]

	SITE 1	SITE 2	SITE 3
Site Name:	Kline's Septic	Harrisburg Sewer Plant	
Municipality	Salunga	Harrisburg	
County:	Lancaster	Dauphin	
DEP Permit Number:	101807	27198	
Type of Material*	Liquid Biosolids	Liquid Biosolids	
Dry Tons Disposal:	0	0	
Gallons Disposed:	0	0	
Type of Disposal/Use:*	Sewer Plant	Sewer Plant	
Hauler Name:	Kline's Septic	Kline's Septic	

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Signature: _____
Date: _____

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION
SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL

Facility Name: Halifax Area Water and Sewer Authority
Municipality: Halifax Borough
Watershed: 6-C

Month JULY 2015
NPDES Permit No. PA 0024457
This permit will expire on May 31, 2016
Outfall No. 001

DAY	Influent					Process Control				
	FLOW mgd	BOD ₅ mg/l	BOD ₆ lb/day	TSS mg/l	TSS lb/day	Aeration MLSS (centrifuge)		Aeration DO mg/l		Sludge Wasted gallons
1	0.1250	428	446	309	322	No. 1 1.5	No. 2 1.5	No. 1 1.9	No. 2 1.9	2,400
2	0.1200					1.4	1.3	2.0	2.1	2,800
3	0.1140					1.2	1.3	2.1	2.0	1,200
4	0.1540					1.3	1.3	2.0	2.0	800
5	0.1110					1.0	1.2	2.0	1.9	800
6	0.1190					1.0	1.1	2.0	2.0	1,200
7	0.1390					1.5	1.3	1.9	2.0	2,400
8	0.1320	145	160	125	138	1.5	1.4	2.0	1.8	2,400
9	0.1330					1.6	1.5	1.9	1.9	2,000
10	0.1220					1.3	1.7	1.7	2.2	2,400
11	0.1060					1.3	1.7	1.5	2.0	800
12	0.1330					1.3	1.7	1.6	2.1	800
13	0.1310					1.4	1.7	1.8	2.0	2,400
14	0.1160					1.4	1.5	1.7	1.9	2,400
15	0.1380	608	700	253	291	1.3	1.5	1.7	2.0	2,400
16	0.1140					1.5	1.6	1.8	1.9	2,400
17	0.1110					1.4	1.5	1.7	1.8	2,400
18	0.1260					1.3	1.4	1.7	1.7	800
19	0.1450					1.4	1.4	1.8	1.9	800
20	0.1330					1.3	1.5	1.9	1.8	1,200
21	0.1610					1.4	1.5	1.8	1.9	2,800
22	0.1180	143	138	163	158	1.5	1.5	2.0	1.9	2,400
23	0.1080					1.5	1.5	2.0	1.8	2,400
24	0.1150					1.4	1.5	1.8	1.7	2,400
25	0.1070					1.4	1.5	2.0	1.9	800
26	0.1380					1.3	1.5	1.7	1.7	800
27	0.1360					1.5	1.3	1.9	1.9	2,400
28	0.1230					1.5	1.4	1.7	1.7	2,400
29	0.1200	141	141	104	104	1.5	1.4	1.8	1.7	2,400
30	0.1340					1.4	1.3	1.9	1.6	1,600
31	0.1380					1.5	1.4	1.6	1.8	2,400
AVE.	0.1264	293	317	191	203	1.4	1.4	1.8	1.9	1,858

Check if there were no ☐ biosolids removed from the plant, ☐ hauled-in municipal wastes received, ☐ hauled-in residual wastes received, or ☐ non-compliance incidents during the month (otherwise attach the appropriate forms).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Jeffrey L. Grosser Signature: _____
Title: Manager Date: _____

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION

SUPPLEMENTAL REPORT - DAILY EFFLUENT MONITORING

Facility Name: Halifax Area Water and Sewer Authority
Municipality: Halifax Borough
Watershed: 6-C
Laboratories: _____

Month: JULY 2015
NPDES Permit No. PA 0024457
Outfall No. 001
Renewal application due 180 days prior to expiration
This permit will expire on May 31, 2016

DAY	EFFLUENT PARAMETERS											Weather/Comments (Inches Precipitation)	Outside Temperature (F Deg.)
	FLOW mgd	pH	D.O. mg/l	TRC mg/l	CBOD 5 mg/l	TSS mg/l	FECAL						
							Q	CFU/100 ml					
1	0.1250	7.3	6.1	0.56	6.0	10.6		3,400		0.25	67		
2	0.1200	7.3	5.3	0.47				5,600		0.05	60		
3	0.1140	7.4	5.4	0.52							70		
4	0.1540	7.3	5.3	0.51						0.35	70		
5	0.1110	7.2	5.4	0.38						0.15	68		
6	0.1190	7.3	5.5	0.44							38		
7	0.1390	7.2	5.6	0.55							70		
8	0.1320	7.3	5.2	0.56	8.0	16.7		520			72		
9	0.1330	7.4	5.5	0.45						0.20	70		
10	0.1220	7.3	5.2	0.55						0.40	71		
11	0.1060	7.5	5.1	0.49							78		
12	0.1330	7.2	5.0	0.47							74		
13	0.1310	7.1	5.2	0.36							66		
14	0.1160	7.3	5.5	0.60						0.10	70		
15	0.1380	7.3	5.4	0.48	5.0	23.6		2,600		0.60	68		
16	0.1140	7.2	5.8	0.66				33			57		
17	0.1110	7.3	5.1	0.54							64		
18	0.1260	7.2	5.0	0.62						0.35	68		
19	0.1450	7.1	5.0	0.50						0.50	78		
20	0.1330	7.3	5.4	0.46							76		
21	0.1610	7.2	5.2	0.52							76		
22	0.1160	7.5	5.0	0.48	4.0	6.0		645		0.20	70		
23	0.1090	7.4	5.3	0.54							64		
24	0.1150	7.2	5.4	0.49							62		
25	0.1070	7.5	5.2	0.46							66		
26	0.1380	7.4	5.1	0.44							68		
27	0.1360	7.3	5.4	0.40						0.75	72		
28	0.1230	7.2	5.6	0.50							67		
29	0.1200	7.3	5.7	0.40	3.0	6.6		32			68		
30	0.1340	7.0	5.3	0.46							74		
31	0.1380	7.2	5.5	0.47						0.20	67		
AVE.	0.1264	7.3	5.3	0.49	5.2	12.7		561		4.10	68		
(Total)													

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Jeffrey L. Grosser
Title: Manager
Signature: _____
Date: _____

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION

SUPPLEMENTAL REPORT SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL

Facility Name: Halifax Area Water and Sewer Authority
Municipality: Halifax Borough County: Dauphin
Watershed: 6-C

JULY 2015
NPDES Permit No. PA 0024457
This permit will expire on May 31, 2016

☐ Check here if there were no off-site removal events during the month

Liquid Sewage Sludge / Biosolids Hauled Off-site					Dewatered Sewage Sludge / Biosolids Hauled Off-site				Sewage Sludge / Biosolids Dewatered and Incinerated On-site		
Date	Gallons	% Solids	X Conv. Factor	= Dry Tons	Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons	Tons dewatered	X % Solids	= Dry Tons
7/8/15	6,000	1.7	X 0.0000417	0.425			X 0.01				
			X 0.0000417				X 0.01				
			X 0.0000417				X 0.01				
			X 0.0000417				X 0.01				
			X 0.0000417				X 0.01				
			X 0.0000417				X 0.01				
7/8/15	6,000	1.7	X 0.0000417	0.425			X 0.01				
7/8/15	6,000	2.3	X 0.0000417	0.575			X 0.01				
			X 0.0000417				X 0.01				
			X 0.0000417				X 0.01				
			X 0.0000417				X 0.01				
			X 0.0000417				X 0.01				
			X 0.0000417				X 0.01				
			X 0.0000417				X 0.01				
18,000		1.9	X 0.0000417	1.425			X 0.01				
			TOTAL:	1.425			TOTAL:	0.00		TOTAL:	0.00

SEWAGE SLUDGE/BIOSOLIDS AND INCINERATOR ASH DISPOSAL AND BENEFICIAL USE INFORMATION
(Identify all sites where sewage sludge/biosolids or ash were disposed or land applied)

	SITE 1	SITE 2	SITE 3
Site Name:	Kline's Septic	Harrisburg Sewer Plant	
Municipality	Salunga	Harrisburg	
County:	Lancaster	Dauphin	
DEP Permit Number:	101607	27198	
Type of Material*	Liquid Biosolids	Liquid Biosolids	
Dry Tons Disposal:	0.42634	1.0008	
Gallons Disposed:	6,000	12,000	
Type of Disposal/Use:*	Sewer Plant	Sewer Plant	
Hauler Name:	Kline's Septic	Kline's Septic	

* See instructions for explanation

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Jeffrey L. Grosser
Title: Manager

Signature: _____
Date: _____

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION
SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL

Facility Name: Halifax Area Water and Sewer Authority
Municipality: Halifax Borough
Watershed: 6-C

Month AUGUST 2015
NPDES Permit No. PA 0024457
This permit will expire on May 31, 2016

DAY	Influent					Process Control				
	FLOW mgd	BOD ₅ mg/l	BOD ₅ lb/day	TSS mg/l	TSS lb/day	Aeration MLSS (centrifuge)		Aeration DO mg/l		Sludge Wasted gallons
1	0.1190					No. 1	No. 2	No. 1	No. 2	
2	0.1300					1.9	1.4	1.8	1.9	1,200
3	0.1110					1.9	1.4	1.9	2.0	800
4	0.1190					1.6	1.5	2.0	1.8	2,400
5	0.1180					1.7	1.4	1.8	1.8	2,400
6	0.1380	116	114	124	122	1.8	1.4	1.7	1.7	1,800
7	0.1040					1.8	1.5	1.6	1.8	2,400
8	0.0970					1.8	1.4	1.2	2.3	2,200
9	0.1190					1.8	1.4	1.4	2.1	800
10	0.1290					1.8	1.3	1.5	2.0	800
11	0.1290					1.7	1.4	1.8	1.9	2,400
12	0.1200	137	137	148	148	1.5	1.4	1.7	1.7	2,400
13	0.1160					1.4	1.3	1.6	1.6	1,600
14	0.1290					1.5	1.4	1.6	1.5	2,400
15	0.1060					1.5	1.3	1.5	1.7	800
16	0.1270					1.5	1.3	1.7	1.6	800
17	0.1310					1.6	1.6	1.6	1.4	2,000
18	0.1170					1.5	1.5	1.7	1.5	2,000
19	0.1140	331	315	162	154	1.5	1.5	1.6	1.6	3,200
20	0.1340					1.5	1.5	1.7	1.5	2,400
21	0.1500					1.5	1.5	1.5	1.5	2,400
22	0.1060					1.5	1.5	1.6	1.6	800
23	0.1130					1.5	1.5	1.8	1.7	800
24	0.1090					1.5	1.5	1.6	1.6	1,200
25	0.1190					1.5	1.5	1.6	1.5	1,200
26	0.1120	125	117	70	65	1.5	1.5	1.7	1.5	400
27	0.1000					1.5	1.3	1.6	1.6	1,200
28	0.1000					1.5	1.5	1.7	1.7	1,800
29	0.1040					1.5	1.5	1.5	1.6	800
30	0.1100					1.5	1.5	1.7	1.5	800
31	0.1320					1.5	1.5	1.7	1.6	1,000
AVE.	0.1181	177	171	126	122	1.6	1.4	1.6	1.7	1,600

Check if there were no ☐ biosolids removed from the plant, ☐ hauled-in municipal wastes received, or ☐ non-compliance incidents during the month (otherwise attach the appropriate forms).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Jeffrey L. Grosser Signature: _____
Title: Manager Date: _____

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION

SUPPLEMENTAL REPORT - DAILY EFFLUENT MONITORING

Facility Name: Halifax Area Water and Sewer Authority
Municipality: Halifax Borough
Watershed: 6-C
Laboratories: County: Dauphin

Month: AUGUST 2015
NPDES Permit No. PA 0024457
Outfall No. 001
Renewal application due 180 days prior to expiration
This permit will expire on May 31, 2016

DAY	FLOW mgd	pH	D.O. mg/l	TRC mg/l	CBOD 5 mg/l	TSS mg/l	FECAL		Weather/Comments (Inches Precipitation)	Outside Temperature (F Deg.)
							Q	CFU/100 ml		
1	0.1190	7.1	5.1	0.58						70
2	0.1300	7.0	5.0	0.50						79
3	0.1110	7.2	5.1	0.41						69
4	0.1190	7.3	5.0	0.47					0.20	68
5	0.1180	7.2	5.3	0.44	3.0	5.0		627		62
6	0.1380	7.0	5.2	0.46						64
7	0.1040	7.2	5.3	0.53						62
8	0.0970	7.1	5.2	0.50						68
9	0.1190	7.3	5.0	0.62						70
10	0.1290	7.4	5.3	0.54						74
11	0.1290	7.2	5.1	0.48					0.40	76
12	0.1200	7.1	5.2	0.49	3.0	10.5		17		63
13	0.1160	7.3	5.4	0.47					0.10	62
14	0.1290	7.2	5.2	0.48						64
15	0.1060	7.4	5.4	0.46						77
16	0.1270	7.1	5.5	0.49						79
17	0.1310	7.2	5.3	0.51						70
18	0.1170	7.1	5.4	0.48						73
19	0.1140	7.3	5.1	0.54	7.0	27.5		270	0.05	75
20	0.1340	7.2	5.3	0.50					0.25	74
21	0.1500	7.3	5.4	0.47					2.00	70
22	0.1060	7.4	5.2	0.45						62
23	0.1130	7.5	5.6	0.44						66
24	0.1090	7.3	5.2	0.45						64
25	0.1190	7.1	5.3	0.50					0.10	64
26	0.1120	7.3	5.4	0.53	5.0	5.5		2		62
27	0.1000	7.2	5.2	0.50						54
28	0.1000	7.3	5.1	0.47						55
29	0.1040	7.1	5.3	0.52						62
30	0.1100	7.2	5.4	0.49						65
31	0.1320	7.1	5.2	0.46						62
AVE.	0.1181	7.2	5.2	0.49	4.5	12.1		49	3.10 (Total)	67

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Jeffrey L. Grosser
Title: Manager
Signature: _____
Date: _____

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION

SUPPLEMENTAL REPORT
SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL

Facility Name: Halifax Area Water and Sewer Authority
Municipality: Halifax Borough County: Dauphin
Watershed: 8-C

AUGUST 2016
NPDES Permit No. PA 0024457
This permit will expire on May 31, 2016

☐ Check here if there were no off-site removal events during the month

Liquid Sewage Sludge / Biosolids Hauled Off-site				Dewatered Sewage Sludge / Biosolids Hauled Off-site				Sewage Sludge / Biosolids Dewatered and Incinerated On-site			
Date	Gallons	% Solids	X Conv. Factor	Dry Tons	Tons dewatered sludge	X % Solids	X 0.01	Dry Tons	Tons dewatered	X % Solids	= Dry Tons
8/20/15	8,000	2.8	X 0.0000417	0.701			X 0.01				
8/24/15	8,000	3	X 0.0000417	0.826			X 0.01				
8/24/15	8,000	1	X 0.0000417	0.300			X 0.01				
			X 0.0000417				X 0.01				
			X 0.0000417				X 0.01				
			X 0.0000417				X 0.01				
8/20/15	8,000	2.8	X 0.0000417	0.726			X 0.01				
8/20/15	8,000	2.5	X 0.0000417	0.626			X 0.01				
8/20/15	8,000	2.6	X 0.0000417	0.651			X 0.01				
8/28/15	8,000	1.2	X 0.0000417	0.300			X 0.01				
8/31/15	8,000	0.8	X 0.0000417	0.200			X 0.01				
			X 0.0000417				X 0.01				
			X 0.0000417				X 0.01				
			X 0.0000417				X 0.01				
	48,000	2.1	X 0.0000417	4.128			X 0.01				
TOTAL:				4.128				0.00			0.00

SEWAGE SLUDGE/BIOSOLIDS AND INCINERATOR ASH DISPOSAL AND BENEFICIAL USE INFORMATION
(Identify all sites where sewage sludge/biosolids or ash were disposed or land applied)

SITE 1		SITE 2		SITE 3	
Site Name:	Kline's Septic		Harrisburg Sewer Plant		
Municipality:	Salunga		Harrisburg		
County:	Lancaster		Dauphin		
DEP Permit Number:	101607		27198		
Type of Material:	Liquid Biosolids		Liquid Biosolids		
Dry Tons Disposal:	1.6263		2.502		
Gallons Disposed:	18,000		30,000		
Type of Disposal/Use:	Sewer Plant		Sewer Plant		
Hauler Name:	Kline's Septic		Kline's Septic		

* See instructions for explanation

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Jeffrey L. Grosser Signature: _____
Title: Manager Date: _____

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION
SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL**

Facility Name: Halifax Area Water and Sewer Authority
Municipality: Halifax Borough
Watershed: 6-C

Month SEPT. 2015
NPDES Permit No. PA 0024467
This permit will expire on May 31, 2016
Outfall No. 001

DAY	Influent					Process Control				
	FLOW mgd	BOD ₅ mg/l	BOD ₅ lb/day	TSS mg/l	TSS lb/day	Aeration MLSS (centrifuge)		Aeration DO mg/l		Sludge Wasted gallons
						No. 1	No. 2	No. 1	No. 2	
1	0.1200					1.5	1.5	1.6	1.4	5,400
2	0.1160	212	205	413	400	1.1	1.5	1.7	1.2	
3	0.1190					1.2	1.4	1.4	1.3	1,200
4	0.1210					1.2	1.3	1.5	1.4	2,400
5	0.1130					1.2	1.3	1.6	1.3	800
6	0.1120					1.0	1.2	1.4	1.5	800
7	0.1060					1.1	1.2	1.5	1.7	1,200
8	0.1230					1.1	1.3	1.5	1.6	1,000
9	0.1230					1.3	1.2	1.4	1.5	1,000
10	0.1200	749	750	166	166	1.3	1.1	1.5	1.6	1,600
11	0.1100					1.2	1.2	1.4	1.4	1,600
12	0.1000					1.2	1.2	1.5	1.6	800
13	0.1440					1.2	1.2	1.4	1.4	800
14	0.0700					1.3	1.1	1.5	1.3	1,600
15	0.0990					1.3	1.3	1.7	1.5	1,600
16	0.0990					1.2	1.2	1.7	1.6	1,600
17	0.1000	207	173	144	120	1.3	1.2	1.6	1.4	1,600
18	0.1030					1.2	1.1	1.4	1.3	1,200
19	0.1040					1.3	1.1	1.5	1.5	800
20	0.1160					1.3	1.1	1.4	1.4	800
21	0.1080					1.0	1.5	1.5	1.5	1,600
22	0.1010					0.9	1.5	1.7	1.4	1,200
23	0.0920					1.0	1.5	1.7	1.4	2,400
24	0.0960	377	302	325	260	1.0	1.5	2.2	1.8	1,600
25	0.1180					1.0	1.5	2.2	1.9	800
26	0.0860					1.0	1.5	2.3	1.7	800
27	0.1050					1.0	1.5	2.5	1.8	800
28	0.1180					1.1	1.4	2.2	1.9	2,400
29	0.1080					0.9	1.5	2.1	2.0	400
30	0.1480					1.0	1.2	2.0	1.8	1,200
31										
AVE.	0.1100	386	357	262	236	1.1	1.3	1.7	1.5	1,367

Check if there were no ☐ biosolids removed from the plant, ☐ hauled-in municipal wastes received, or ☐ non-compliance incidents during the month (otherwise attach the appropriate forms).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Jeffrey L. Grosser Signature: _____
Title: Manager Date: _____

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION

SUPPLEMENTAL REPORT - DAILY EFFLUENT MONITORING

Facility Name: Halifax Area Water and Sewer Authority
Municipality: Halifax Borough
Watershed: 6-C
Laboratories: County: Dauphin

Month: SEPT. 2015
NPDES Permit No. PA 0024457
Outfall No. 001
Renewal application due 180 days prior to expiration
This permit will expire on May 31, 2016

DAY	EFFLUENT PARAMETERS										Weather/Comments (Inches Precipitation)	Outside Temperature (F Deg.)
	FLOW <i>mgd</i>	pH	D.O. <i>mg/l</i>	TRC <i>mg/l</i>	CBOD 5 <i>mg/l</i>	TSS <i>mg/l</i>	FECAL					
							Q	CFU/100 ml				
1	0.1200	7.3	5.4	0.43								66
2	0.1160	7.2	5.2	0.48	6.0	9.6			845			67
3	0.1190	7.0	5.3	0.47								64
4	0.1210	7.1	5.2	0.49								70
5	0.1130	7.0	5.3	0.48								71
6	0.1120	7.0	5.3	0.38								70
7	0.1060	7.1	5.2	0.48								72
8	0.1230	7.2	5.4	0.49								67
9	0.1230	7.1	5.2	0.52								72
10	0.1200	7.2	5.3	0.50	14.0	12.1			5,200		0.10	68
11	0.1100	7.1	5.4	0.46							0.50	68
12	0.1000	7.2	5.3	0.53								67
13	0.1440	7.1	5.2	0.51							0.25	68
14	0.0700	7.2	5.3	0.43								54
15	0.0990	7.1	5.2	0.46								62
16	0.0990	7.3	5.4	0.49								64
17	0.1000	7.1	5.2	0.53	7.0	7.1			3,700			63
18	0.1030	7.1	5.5	0.50								64
19	0.1040	7.0	5.4	0.46								52
20	0.1160	7.2	5.6	0.44								60
21	0.1080	7.3	5.5	0.49								55
22	0.1010	7.2	5.3	0.51							0.05	56
23	0.0920	7.4	5.6	0.53								53
24	0.0960	7.4	5.8	0.56	4.0	26.1			25			57
25	0.1180	7.5	5.9	0.50								48
26	0.0860	7.3	5.7	0.48								54
27	0.1050	7.5	5.6	0.49								60
28	0.1190	7.3	5.2	0.58					4,600			65
29	0.1080	7.4	5.4	0.52					95		0.05	70
30	0.1490	7.3	5.2	0.53							1.65	72
31												
AVE.	0.1100	7.2	5.4	0.49	7.8	13.7			750	2.60 (Total)		63

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Jeffrey L. Grosser
Title: Manager
Signature: _____
Date: _____

SUPPLEMENTAL REPORT SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL

SEPT. 2015
NPDES Permit No. PA 0024467
This permit will expire on May 31, 2016

[illegible]

	SITE 1	SITE 2	SITE 3
Site Name:	Kline's Septic	Harrisburg Sewer Plant	
Municipality	Salunga	Harrisburg	
County:	Lancaster	Dauphin	
DEP Permit Number:	101607	27198	
Type of Material*	Liquid Biosolids	Liquid Biosolids	
Dry Tons Disposal:	0	0	
Gallons Disposed:	0	0	
Type of Disposal/Use:*	Sewer Plant	Sewer Plant	
Hauler Name:	Kline's Septic	Kline's Septic	

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Signature: _____

Date: _____

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION
SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL

Facility Name: Halifax Area Water and Sewer Authority
Municipality: Halifax Borough
Watershed: 6-C

Month OCTOBER 2015
NPDES Permit No. PA 0024457
This permit will expire on May 31, 2016

DAY	Influent					Process Control				
	FLOW mgd	BOD ₅ mg/l	BOD ₆ lb/day	TSS mg/l	TSS lb/day	Aeration MLSS (centrifuge)		Aeration DO mg/l		Sludge Wasted gallons
1	0.1080	105	93	169	149	No. 1 1.1	No. 2 1.3	No. 1 2.1	No. 2 2.0	1,600
2	0.0970					1.1	1.1	2.0	1.8	1,600
3	0.1080					1.1	1.2	2.1	1.9	800
4	0.0930					1.1	1.2	2.0	2.0	800
5	0.0970					1.1	1.1	2.1	2.0	1,600
6	0.0930					1.0	1.0	2.0	2.1	1,600
7	0.1010					1.0	1.0	2.1	2.0	1,600
8	0.1050	181	159	142	124	1.0	1.0	2.3	2.1	400
9	0.1250					1.0	1.0	2.4	2.0	1,600
10	0.1010					1.0	1.0	2.5	2.2	800
11	0.0950					1.0	1.0	2.4	2.1	800
12	0.1020					1.3	1.0	2.2	2.0	1,300
13	0.0940					1.4	1.1	2.1	2.1	1,800
14	0.0950					1.3	1.1	2.2	2.2	2,000
15	0.0960	723	579	288	231	1.2	1.1	2.3	2.1	2,000
16	0.0920					1.2	1.1	2.2	2.0	2,000
17	0.0920					1.2	1.1	2.3	2.2	800
18	0.0910					1.3	1.0	2.4	1.0	800
19	0.0880					1.2	1.0	2.3	1.0	2,400
20	0.0820					1.3	1.1	2.2	1.1	2,000
21	0.0890					1.2	1.0	2.3	1.1	1,600
22	0.0920	461	354	176	135	1.2	1.1	2.4	1.2	2,400
23	0.0980					1.3	1.2	2.2	1.2	800
24	0.0980					1.3	1.2	2.2	1.2	800
25	0.0940					1.3	1.2	2.5	2.0	800
26	0.0940					1.3	1.1	2.3	2.1	2,400
27	0.0760					1.4	1.2	2.3	2.2	2,400
28	0.0860					1.4	1.2	2.4	2.1	2,400
29	0.1420	151	179	100	118	1.4	1.1	2.5	2.2	2,400
30	0.1020					1.4	1.0	2.5	2.3	1,600
31	0.0790					1.4	1.0	2.5	2.4	800
AVE.	0.0965	324	273	175	152	1.2	1.1	2.3	1.9	1,545

Check if there were no ☐ biosolids removed from the plant, ☐ hauled-in municipal wastes received, ☐ hauled-in residual wastes received, or ☐ non-compliance incidents during the month (otherwise attach the appropriate forms).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Jeffrey L. Grosser Signature: _____
Title: Manager Date: _____

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION

SUPPLEMENTAL REPORT - DAILY EFFLUENT MONITORING

Facility Name: Halifax Area Water and Sewer Authority

County: Dauphin

Month: OCTOBER 2015

NPDES Permit No. PA 0024457

Outfall No. 001

Municipality: Halifax Borough

Renewal application due 180 days prior to expiration

Watershed: 6-C

This permit will expire on May 31, 2016

Laboratories:

DAY	FLOW mgd	pH	D.O. mg/l	TRC mg/l	CBOD 5 mg/l	TSS mg/l	FECAL		Weather/Comments (Inches Precipitation)	Outside Temperature (F Deg.)
							Q	CFU/100 ml		
1	0.1060	7.2	5.4	0.69	6.0	28.1		13		53
2	0.0970	7.3	5.5	0.41						52
3	0.1080	7.1	5.0	0.48					0.75	48
4	0.0930	7.0	5.2	0.44					0.25	52
5	0.0970	7.2	5.4	0.46					0.20	54
6	0.0930	7.0	6.0	0.50						46
7	0.1010	7.2	6.1	0.52						60
8	0.1050	7.1	5.8	0.50	7.0	15.5		12		57
9	0.1250	7.3	6.0	0.49						63
10	0.1010	7.4	5.6	0.47					0.30	52
11	0.0950	7.4	5.8	0.48						50
12	0.1020	7.3	5.4	0.68					0.10	46
13	0.0940	7.3	5.3	0.52						50
14	0.0950	7.4	5.2	0.50					0.05	54
15	0.0960	7.3	5.4	0.51	3.0	8.0		50		46
16	0.0920	7.4	5.4	0.49						44
17	0.0820	7.3	5.2	0.50						46
18	0.0910	7.5	5.4	0.41					0.10	40
19	0.0880	7.3	5.2	0.44						29
20	0.0820	7.4	5.1	0.48						42
21	0.0890	7.3	5.4	0.45						46
22	0.0920	7.3	5.8	0.49	3.0	11.5		5		50
23	0.0980	7.2	5.7	0.46						50
24	0.0980	7.5	5.5	0.47						44
25	0.0940	7.4	5.6	0.44					0.25	56
26	0.0940	7.5	5.8	0.42						40
27	0.0760	7.3	6.0	0.48						36
28	0.0860	7.2	6.1	0.47					0.10	52
29	0.1420	7.1	6.3	0.49	3.0	8.0		6	1.20	56
30	0.1020	7.3	6.5	0.48					0.10	50
31	0.0790	7.2	6.4	0.45						34
AVE.	0.0965	7.3	5.6	0.49	4.4	14.2		12	3.40 (Total)	48

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Jeffrey L. Grosser

Title: Manager

Signature: _____

Date: _____

SUPPLEMENTAL REPORT SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL

OCTOBER 2015
NPDES Permit No. PA 0024467
This permit will expire on May 31, 2016

[illegible]

	SITE 1	SITE 2	SITE 3
Site Name:	Kline's Septic	Harrisburg Sewer Plant	
Municipality	Salunga	Harrisburg	
County:	Lancaster	Dauphin	
DEP Permit Number:	101607	27198	
Type of Material*	Liquid Biosolids	Liquid Biosolids	
Dry Tons Disposal:	0	0	
Gallons Disposed:	0	0	
Type of Disposal/Use:*	Sewer Plant	Sewer Plant	
Hauler Name:	Kline's Septic	Kline's Septic	

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Signature: _____

Date: _____

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION
SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL

Facility Name: Halifax Area Water and Sewer Authority
Municipality: Halifax Borough
Watershed: 6-C

Month NOVEMBER 2015
NPDES Permit No. PA 0024457
This permit will expire on May 31, 2016
Outfall No. 001

DAY	Influent					Process Control				
	FLOW mgd	BOD ₅ mg/l	BOD ₅ lb/day	TSS mg/l	TSS lb/day	Aeration MLSS (centrifuge)		Aeration DO mg/l		Sludge Wasted gallons
1	0.0910					1.4	1.0	2.3	2.3	800
2	0.1080					1.3	1.1	2.4	2.4	2,400
3	0.0910					1.2	1.0	2.3	2.2	1,600
4	0.0880					1.3	1.0	2.3	2.2	1,600
5	0.0910	110	83	252	191	1.4	1.1	2.4	2.3	1,600
6	0.1110					1.4	1.1	2.3	2.2	1,200
7	0.1070					1.3	1.1	2.4	2.1	800
8	0.1000					1.3	1.1	2.3	2.4	800
9	0.0910					1.4	1.1	2.4	2.3	2,400
10	0.0880					1.5	1.0	2.4	2.2	2,400
11	0.0980					1.5	1.0	2.4	2.2	1,600
12	0.0960	189	151	188	151	1.4	1.0	2.3	2.3	1,600
13	0.0940					1.4	1.1	2.4	2.3	1,600
14	0.0750					1.4	1.1	2.4	2.1	800
15	0.0690					1.4	1.1	2.4	2.3	800
16	0.0880					1.5	1.1	2.2	2.2	1,600
17	0.0850					1.6	1.1	2.3	2.1	1,600
18	0.0860					1.6	1.1	2.4	2.3	1,600
19	0.1130	144	136	260	245	1.7	1.2	2.2	2.1	600
20	0.1300					1.7	1.2	2.4	2.1	2,400
21	0.0820					1.7	1.2	2.3	2.0	800
22	0.1040					1.7	1.2	2.3	2.1	800
23	0.1010					1.8	1.1	2.4	2.1	2,000
24	0.0730	51	31	134	82	1.8	1.1	2.3	2.3	2,000
25	0.0790					1.9	1.2	2.2	2.1	2,000
26	0.0770					1.9	1.7	2.0	2.1	1,800
27	0.0840					1.9	1.4	2.4	2.9	2,400
28	0.1010					1.9	1.4	2.5	2.3	800
29	0.0750					1.8	1.3	2.2	2.5	800
30	0.0760					1.8	1.3	2.4	2.4	
31										
AVE.	0.0924	124	100	209	167	1.6	1.2	2.3	2.2	1,440

Check if there were no ☐ biosolids removed from the plant, ☐ hauled-in municipal wastes received, or ☐ non-compliance incidents during the month (otherwise attach the appropriate forms).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Jeffrey L. Grosser
Title: Manager

Signature: _____
Date: _____

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION**

SUPPLEMENTAL REPORT - DAILY EFFLUENT MONITORING

Facility Name: Halifax Area Water and Sewer Authority
Municipality: Halifax Borough
Watershed: 6-C
Laboratories: _____

Month: NOVEMBER 2015
NPDES Permit No. PA 0024457 Outfall No. 001
Renewal application due 180 days prior to expiration
This permit will expire on May 31, 2016

DAY	EFFLUENT PARAMETERS											Weather/Comments (Inches Precipitation)	Outside Temperature (F Deg.)
	FLOW <i>mgd</i>	pH	D.O. <i>mg/l</i>	TRC <i>mg/l</i>	CBOD 5 <i>mg/l</i>	TSS <i>mg/l</i>	FECAL						
							Q	CFU/100 ml					
1	0.0910	7.3	6.5	0.52								51	
2	0.1080	7.2	6.3	0.49								46	
3	0.0910	7.3	6.5	0.45								42	
4	0.0880	7.4	6.6	0.47								42	
5	0.0910	7.2	6.5	0.52	3.0	6.5			420			58	
6	0.1110	7.1	6.3	0.48								64	
7	0.1070	7.3	6.4	0.40								58	
8	0.1000	7.2	6.6	0.46								48	
9	0.0910	7.4	6.7	0.47								34	
10	0.0880	7.3	6.5	0.46						0.05		50	
11	0.0980	7.4	6.6	0.47						0.30		54	
12	0.0960	7.3	6.5	0.48	3.0	9.5			380	0.10		52	
13	0.0940	7.2	6.6	0.49						0.20		54	
14	0.0750	7.4	6.7	0.47								42	
15	0.0890	7.5	6.6	0.44								44	
16	0.0890	7.3	6.4	0.45								36	
17	0.0850	7.4	6.2	0.49								36	
18	0.0860	7.3	6.4	0.48								46	
19	0.1130	7.4	6.3	0.53	3.0	7.5			410	0.25		56	
20	0.1300	7.6	6.4	0.45						0.35		44	
21	0.0820	7.4	6.5	0.46								40	
22	0.1040	7.2	6.6	0.50								44	
23	0.1010	7.3	6.7	0.47								42	
24	0.0730	7.5	6.4	0.46	3.0	5.0			56			32	
25	0.0790	7.5	6.9	0.45								28	
26	0.0770	7.6	6.2	0.58								29	
27	0.0840	7.2	6.2	0.56								37	
28	0.1010	7.1	6.3	0.51								48	
29	0.0750	7.2	6.4	0.45						0.10		42	
30	0.0760	7.4	6.6	0.44								30	
31													
AVE.	0.0924	7.3	6.5	0.48	3.0	7.1			246	1.35	(Total)	44	

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Jeffrey L. Grosser
Title: Manager

Signature: _____
Date: _____

SUPPLEMENTAL REPORT SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL

NOVEMBER 2015
NPDES Permit No. PA 0024457
This permit will expire on May 31, 2016

[illegible]

	SITE 1	SITE 2	SITE 3
Site Name:	Kline's Septic	Harrisburg Sewer Plant	
Municipality	Salunga	Harrisburg	
County:	Lancaster	Dauphin	
DEP Permit Number:	101607	27198	
Type of Material*	Liquid Biosolids	Liquid Biosolids	
Dry Tons Disposed:	0	0	
Gallons Disposed:	0	0	
Type of Disposal/Use:	Sewer Plant	Sewer Plant	
Hauler Name:	Kline's Septic	Kline's Septic	

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Signature: _____
Date: _____

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION
SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL

Facility Name: Halifax Area Water and Sewer Authority
Municipality: Halifax Borough
Watershed: 6-C

Month DECEMBER 2015
NPDES Permit No. PA 0024457
This permit will expire on May 31, 2016

Outfall No. 001

DAY	Influent					Process Control				
	FLOW mgd	BOD ₅ mg/l	BOD ₆ lb/day	TSS mg/l	TSS lb/day	Aeration MLSS (centrifuge)		Aeration DO mg/l		Sludge Wasted gallons
1	0.0920					No. 1	No. 2	No. 1	No. 2	
2	0.1080					1.9	1.4	2.5	2.4	2,400
3	0.1180	178	175	154	152	1.9	1.4	2.3	2.4	2,000
4	0.1060					2.0	1.4	2.2	2.2	2,400
5	0.0780					2.0	1.5	2.2	2.1	2,400
6	0.0870					2.0	1.5	2.3	2.0	800
7	0.0910					2.0	1.5	2.4	2.2	800
8	0.0870					1.7	1.4	2.2	2.0	2,600
9	0.0820					2.0	1.4	2.3	2.1	2,000
10	0.0680	189	139	188	138	2.0	1.3	2.5	2.3	2,000
11	0.0910					2.0	1.2	2.4	2.2	2,000
12	0.0950					2.0	1.2	2.4	2.4	2,000
13	0.0860					2.0	1.2	2.3	2.4	800
14	0.1140					2.0	1.2	2.4	2.4	800
15	0.1070					2.0	1.3	2.5	2.4	2,000
16	0.1000					1.8	1.2	2.0	2.1	2,000
17	0.0950	132	105	208	165	1.9	1.2	2.4	2.4	2,000
18	0.1150					1.9	1.2	2.4	2.2	1,600
19	0.0850					1.8	1.1	2.5	2.3	1,200
20	0.0800					1.9	1.2	2.4	2.2	1,200
21	0.0850					1.8	1.2	2.5	2.4	800
22	0.0910	208	188	210	159	1.9	1.3	2.4	2.5	2,000
23	0.0930					1.9	1.3	2.5	2.6	2,000
24	0.1150					1.9	1.2	2.3	2.3	2,000
25	0.1030					1.9	1.2	2.3	2.5	2,000
26	0.0940					1.9	1.2	2.4	2.4	1,200
27	0.1140					1.9	1.2	2.2	2.5	800
28	0.1080					1.9	1.2	2.3	2.6	800
29	0.1170	165	161	158	154	2.0	1.4	2.3	2.1	2,200
30	0.1430					1.6	1.3	2.5	2.3	600
31	0.1210					1.9	1.4	2.4	2.2	2,400
AVE.	0.0996	174	147	184	154	1.8	1.2	2.9	2.6	2,400
						1.9	1.3	2.4	2.3	1,684

Check if there were no ☐ biosolids removed from the plant, ☐ hauled-in municipal wastes received, ☐ hauled-in residual wastes received, or ☐ non-compliance incidents during the month (otherwise attach the appropriate forms).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Jeffrey L. Grosser Signature: _____
Title: Manager Date: _____

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION

SUPPLEMENTAL REPORT - DAILY EFFLUENT MONITORING

Facility Name: <u>Halifax Area Water and Sewer Authority</u>	Month: <u>DECEMBER</u> 2015	
Municipality: <u>Halifax Borough</u>	NPDES Permit No. <u>PA 0024457</u>	Outfall No. <u>001</u>
Watershed: <u>6-C</u>	Renewal application due 180 days prior to expiration	
Laboratories: _____	This permit will expire on May 31, 2016	

DAY	FLOW <i>mgd</i>	pH	D.O. <i>mg/l</i>	TRC <i>mg/l</i>	CBOD 5 <i>mg/l</i>	TSS <i>mg/l</i>	FECAL		Weather/Comments (Inches Precipitation)	Outside Temperature (F Deg.)
							Q	CFU/100 ml		
1	0.0920	7.2	6.8	0.47					0.25	40
2	0.1080	7.3	6.7	0.52					0.45	42
3	0.1180	7.0	6.5	0.50	3.0	5.0		5	0.50	40
4	0.1060	7.0	6.3	0.56					0.10	41
5	0.0780	7.0	6.2	0.49						28
6	0.0870	7.1	6.4	0.46						26
7	0.0910	7.1	6.1	0.56						32
8	0.0870	7.3	6.3	0.52						34
9	0.0820	7.4	6.5	0.50						36
10	0.0880	7.2	6.3	0.51	8.0	5.0		30	0.10	42
11	0.0910	7.1	6.2	0.49						46
12	0.0960	7.0	6.3	0.48						50
13	0.0860	7.1	6.2	0.49						44
14	0.1140	7.4	6.3	0.53						56
15	0.1070	7.2	6.1	0.50					0.30	54
16	0.1000	7.1	6.3	0.44						57
17	0.0950	7.1	6.1	0.53	3.0	5.0		12		50
18	0.1150	7.2	6.3	0.50					0.30	38
19	0.0850	7.1	6.4	0.48						34
20	0.0800	7.0	6.5	0.49						33
21	0.0850	7.1	6.3	0.47						39
22	0.0910	7.4	6.6	0.54	3.0	7.5		12	0.25	46
23	0.0930	7.1	6.1	0.52					0.05	49
24	0.1150	7.2	5.6	0.48					0.25	62
25	0.1030	7.1	5.7	0.46						52
26	0.0940	7.0	5.5	0.51						48
27	0.1140	7.4	5.6	0.49					0.30	54
28	0.1080	7.1	7.0	0.57					0.30	37
29	0.1170	7.2	7.1	0.47	3.0	5.0		240	0.65	38
30	0.1430	7.1	6.9	0.42					0.15	42
31	0.1210	6.9	6.2	0.50					0.10	45
AVE.	0.0996	7.1	6.3	0.50	4.0	5.5		22	4.05 (Total)	43

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: <u>Jeffrey L. Grosser</u>	Signature: _____
Title: <u>Manager</u>	Date: _____

SUPPLEMENTAL REPORT SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL

DECEMBER 2015
NPDES Permit No. PA 0024457
This permit will expire on May 31, 2016

[illegible]

	SITE 1	SITE 2	SITE 3
Site Name:	Kline's Septic	Harrisburg Sewer Plant	
Municipality	Salunga	Harrisburg	
County:	Lancaster	Dauphin	
DEP Permit Number:	101807	27198	
Type of Material*	Liquid Biosolids	Liquid Biosolids	
Dry Tons Disposal:	0	1,442905	
Gallons Disposed:	0	18,500	
Type of Disposal/Use:*	Sewer Plant	Sewer Plant	
Hauler Name:	Kline's Septic	Kline's Septic	

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Signature: _____
Date: _____

HAWASA		Influent		Eff	Sludge			
Month	Flow	BOD	#	CBOD	Gallons	%	DT	
1	0.0774	223	136	4.5	18000		2	1.476
2	0.0691	185	101	5.6	6000		1.8	0.45
3	0.0976	171	142	4.9	0			
4	0.1123	211	199	4.5	24000		2.3	2.277
5	0.121	329	347	4.8	0			
6	0.129	495	513	14	0			
7	0.1264	293	317	5.2	18000		1.9	1.426
8	0.1181	177	171	4.5	48000		2.1	4.128
9	0.11	386	357	7.8	0			
10	0.0985	324	273	4.4	0			
11	0.0924	124	100	3	0			
12	0.0996	174	147	4	16500		2.1	1.445
avg		258	233.6	5.6	10875		2.03	
					130500			11.202