

HALIFAX AREA WATER AND
SEWER AUTHORITY
DAUPHIN COUNTY, PENNSYLVANIA

2013 CHAPTER 94 REPORT
MUNICIPAL WASTELOAD
MANAGEMENT PLAN

PREPARED
March 2014

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

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5. FLOW METER CALIBRATION REPORT
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HALIFAX AREA WATER AND SEWER AUTHORITY MUNICIPAL WASTELOAD MANAGEMENT REPORT

I. LOADING PROJECTIONS

A. HYDRAULIC LOADING PROJECTIONS

The Bureau of Water Quality Management Permit No. 6673058T -1 dated January 5, 1970, and the NPDES Permit No. PA0024457 last renewed on May 1, 1997 for the Halifax wastewater treatment plant, allow a flow capacity of 0.140 million gallons per day (mgd) to be discharged to the Susquehanna River. Part II Permit No. 2205401 was issued by the Department on November 8, 2005, re-rating the hydraulic capacity of the facility to 0.210 mgd and the organic capacity to 527 pounds per day. An NPDES Permit renewal was issued on June, 1, 2010, which will expire May 31, 2015. The Halifax Area Water and Sewer Authority accepts sewage from the Borough of Halifax and portions of Halifax Township. During 2007, the Halifax Municipal Authority was terminated and the Halifax Area Water and Sewer Authority was created. All permits were transferred accordingly.

The hydraulic loading projections have been based on historical growth characteristics as well as anticipated connections resulting from sewer extensions. Therefore, the projected average daily hydraulic loading for the year 2018 is calculated to be 0.130 mgd. Based on a re-rate capacity of 0.210 mgd, the projected loading leaves an average reserve hydraulic capacity of 0.080 mgd.

The maximum three-month average daily flows for the previous five years were used to calculate a five-year projection. The three-month average daily flow for the year 2018 is calculated to be 0.144 mgd, which results in a reserve hydraulic capacity of 0.066 mgd.

B. ORGANIC LOADING PROJECTIONS

The organic loading projection is calculated using the Equivalent Dwelling Units (EDU's) average organic loading over the past five years. The BOD₅ concentration entering the plant is not expected to change because of the static nature of the population and the organic loading is expected to parallel the hydraulic loading through the next five years. The organic loading projections are calculated based on the previous loadings per equivalent dwelling unit. The projection for 2018 is calculated on this basis to be 210 lbs./day. Given a re-rate capacity of 527 lbs./day, this projection leaves a reserve organic capacity of 317 lbs./day.

The maximum monthly average daily organic loadings for the previous five years were used to calculate a five-year projection. The maximum monthly average daily organic loading for the year 2018 is calculated to be 332 lbs./day, which results in a reserve organic capacity of 195 lbs./day.

II. PROPOSED PLAN TO REDUCE OVERLOAD

Due to the recent re-rating of the facility, no overloaded conditions are projected within the next five years.

III. INDUSTRIAL WASTES

The Authority has recognized the need to reduce excessive discharges of grease and oil from restaurants and food providers. The Authority adopted Resolution No. 99-0001 on February 16, 1999 requiring cleaning and regular maintenance of grease traps. **A copy of the resolution was included in the 1998 Chapter 94 Report.** The Authority requires the businesses with grease traps to notify them of the date and time they are cleaned. Periodically, the Authority samples these traps to have them analyzed by a contracted lab.

There are no major industrial users connected to the sewerage system at the present time.

IV. SEWER EXTENSIONS

One sewer extension was proposed during 2005 and 2006, which is presently under review. Cedar Shopping Centers, Inc. is proposing to extend the sewer system along State Route 225 as shown on the attached General Plan. The extension would serve a commercial development called Halifax Commons comprised of a Rite Aid, Dunkin Donuts and one other retail store.

Another sewer extension proposed in 2010 is the Route 147/225 extension that will provide sewer service to the Accu-Mold property, as well as all of the residences and commercial establishments between the existing sewer main and Powell's Valley Road. This extension is inactive at this time.

The potential exists for the eventual sewerage of all phases of the proposed Lenker Estates Development and Lenker Estates 2, the latter of which was approved by the Township Supervisors in early 2006. Initially, this development, comprised of approximately 36 EDU's, will be served by its own on-site sewage treatment plant.

All of these proposed extensions have not been installed and will not be in the near foreseeable future.

In 2014, there will be an extension installed by the developer on the southwest side of the intersection of Route 225 and 147 to accept Sheetz. This will have a ten (10) EDU increase which is shown on the projections.

There were no connections made to the collection system in 2013.

V. OPERATIONS AND MAINTENANCE PROGRAM

The Authority currently employs two full-time certified operators to operate the wastewater conveyance and treatment facilities. Both operators are on call 24 hours a day to service any emergency that might arise.

The sampling and testing in compliance with the Discharge Monitoring Report is completed through a combination of in-house testing and contracted laboratory services. The plant operator completes the daily samples such as pH, dissolved oxygen and chlorine residual. All other testing is contracted to Microbac Laboratories.

A drive unit on #1 process tank was repaired during 2013. Both tanks were cleaned and the diffusers checked and cleaned.

A copy of the flow meter calibration report can be found as Appendix 5.

VI. CONDITION OF THE SEWERAGE SYSTEM

From the 1999 collection system televising project, a rehabilitation project was developed that will be completed in four or five phases. Phase 1 was completed in 2001, and Phase 2 was completed in 2002. The Third Street area was completed in 2003. The sewer rehabilitation project along North Front Street, between Armstrong and Market Streets, was completed in 2008. The sewer rehabilitation project on South Front Street was completed during 2009. We will continue to pursue funding for rehabilitation of the remainder of the collection system.

In 2011, periodic inspection of the manholes in the collection system was done. No blockages or repairs were reported. The Authority will continue to pursue funding to rehabilitate the remainder of the collection system.

The Authority operates and maintains the collection system within the borough of Halifax and Halifax Township that is connected directly to the borough collection system.

A copy of the non-compliance report is included in the Appendix 8.

VII. PUMPING STATIONS

The sewerage system contains two pumping stations.

Main Pumping Station - Location: At the Treatment Plant

Design Capacity:	175 gpm or 1,669 EDUs
Present Flows:	Average: 73 gpm
	Maximum: 148 gpm
	Projected two-year maximum flow: 128 gpm
	Two pumps were replaced during 2010

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

Design Capacity:	50 gpm or 477 EDUs
Present Flows:	Average: 5 gpm
	Maximum: 17 gpm
	Projected two-year maximum flow: 20 gpm

The Boyer Street Pump Station is being upgraded to submersible pumps in 2014. The Main Pumping Station will have installed in the Spring of 2013, a third hour meter to monitor peak flows requiring both pumps to activate.

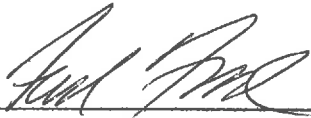
VIII. BIOSOLIDS DISPOSAL

The Authority employs several methods of disposal. The Authority has agreements to dispose biosolids at the Harrisburg Advanced Wastewater Treatment Facility, and Kline's Services Inc. During 2013, approximately 7.679 dry tons of biosolids were disposed of which 1.176 dry tons went to Kline's Services Inc. and 6.503 dry tons went to Harrisburg Advanced Wastewater Treatment Facility.

IX. CONNECTION OF ON-LOT SYSTEMS

The Authority has not connected any on-lot septic systems since January 1, 2003.

Respectfully submitted,



Fred Ford, Chairman
Halifax Municipal Authority - Permit Holder



Joseph A. Bluge
Operations Specialist
Glacé Associates, Inc. - Preparer

APPENDICES

1. HYDRAULIC LOADING DATA & PROJECTIONS
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APPENDIX 1

HYDRAULIC LOADING DATA
AND PROJECTIONS

**HALIFAX WASTEWATER TREATMENT PLANT
HYDRAULIC LOADING DATA**

MONTH	Monthly Average Wastewater Flows (MGD)					
	2009	2010	2011	2012	2013	
January	0.099	0.131	0.106	0.098	0.098	
February	0.096	0.122	0.124	0.102	0.101	
March	0.091	0.148 *	0.190	0.102	0.103	
April	0.110 *	0.135 *	0.213	0.095	0.102	
May	0.126 *	0.129 *	0.225	0.122 *	0.105	
June	0.136 *	0.131	0.177	0.113 *	0.115 *	
July	0.121	0.135	0.157	0.117 *	0.116 *	
August	0.132	0.135	0.150	0.111	0.108 *	
September	0.118	0.123	0.267 *	0.106	0.104	
October	0.123	0.118	0.215 *	0.098	0.109	
November	0.116	0.105	0.171 *	0.093	0.096	
December	0.122	0.108	0.163	0.102	0.100	
Annual Average	0.116	0.127	0.180	0.105	0.105	5 Year Averages 0.127
Max. 3-Month Average Daily Flow	0.124	0.137	0.218	0.117	0.113	
Ratio (Max. 3-Month to Annual Average)	1.069	1.079	1.211	1.114	1.076	1.110
EDU's	736	737	737	737	737	
Flow/EDU (GPD)	158	172	244	142	142	172
Rainfall (inches)	58.20	51.35	79.90	47.65	45.20	

PROJECTED HYDRAULIC LOADINGS (MGD)

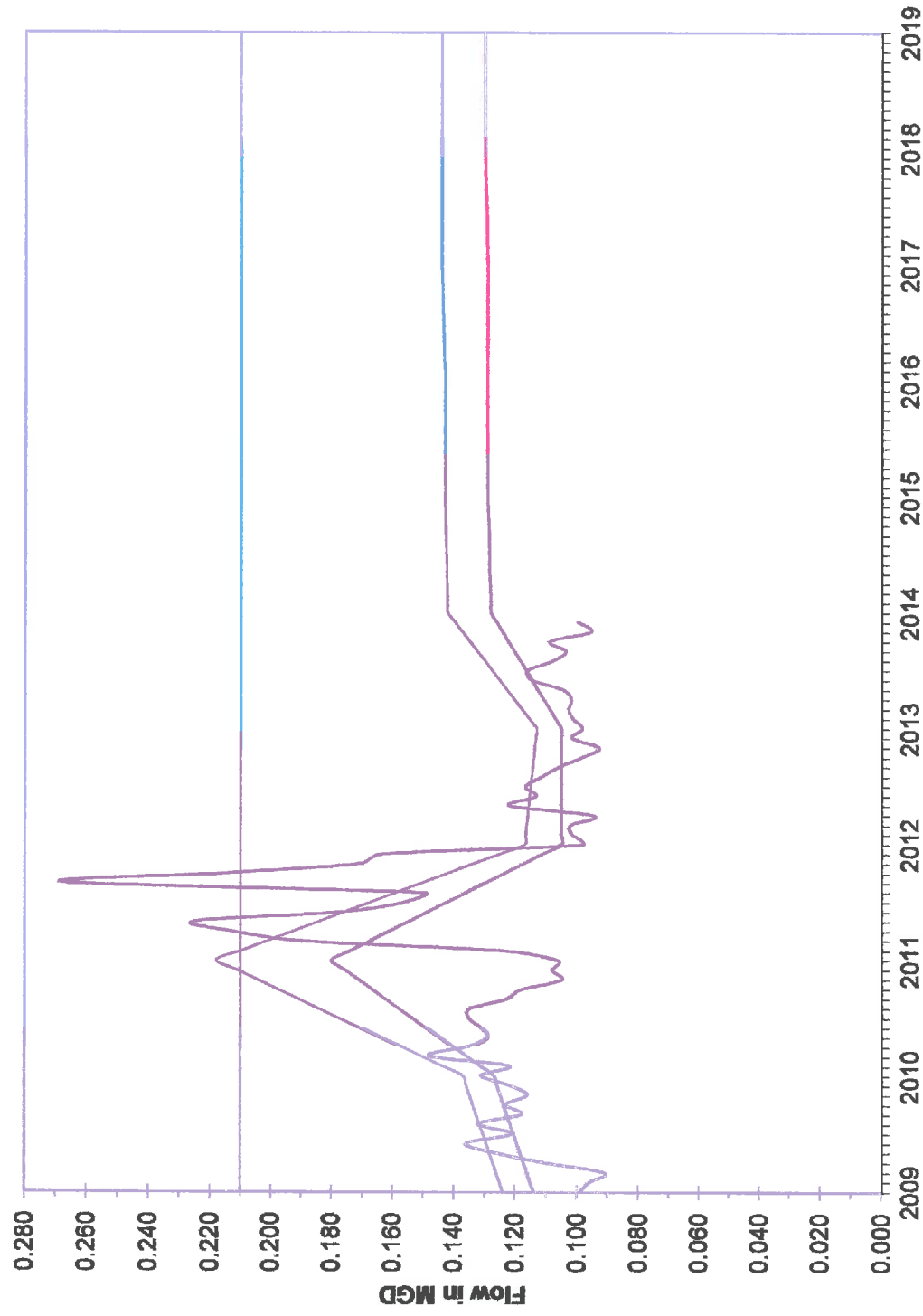
Year	Previous Flow	Add'l EDU's	Increase + Flow	Project = Flow	x Ratio	Project = 3 Mo. Max.	Design Flow
2014	0.127	10	0.00172	0.128	1.110	0.142	0.210
2015	0.128	2	0.00034	0.129	1.110	0.143	
2016	0.129	2	0.00034	0.129	1.110	0.143	
2017	0.129	2	0.00034	0.129	1.110	0.144	
2018	0.129	2	0.00034	0.130	1.110	0.144	

* Indicates highest three consecutive months

APPENDIX 2

HYDRAULIC LOADING GRAPH

HALIFAX AREA WATER AND SEWER AUTHORITY Hydraulic Loading Graph



APPENDIX 3

ORGANIC LOADING DATA
AND PROJECTIONS

**HALIFAX WASTEWATER TREATMENT PLANT
ORGANIC LOADING DATA**

Monthly Average Influent BOD5 Loadings (lbs/day)

MONTH	2009	2010	2011	2012	2013
January	175	195	297	90	90
February	134	213	154	155	163
March	173	413	479 *	144	105
April	201	365	176	249 *	166
May	239	202	147	197	133
June	222	332	210	77	150
July	111	433 *	185	156	179
August	170	266	205	130	181
September	240	348	299	210	157
October	242	237	179	112	158
November	288 *	208	278	90	185 *
December	258	287	158	135	157

5 Year Averages

Annual Average	204	292	231	145	152	205
Max. 1-Month Avg. Daily Loading	288	433	479	249	185	
Ratio (Max. 1-Month to Annual Avg.)	1.410	1.485	2.077	1.712	1.217	1.580
BOD (mg/l)	215	268	173	182	185	205
EDU's	736	737	737	737	737	
BOD (lbs/day)/EDU	0.28	0.40	0.31	0.20	0.21	0.28

PROJECTED ORGANIC LOADINGS (LBS/DAY)

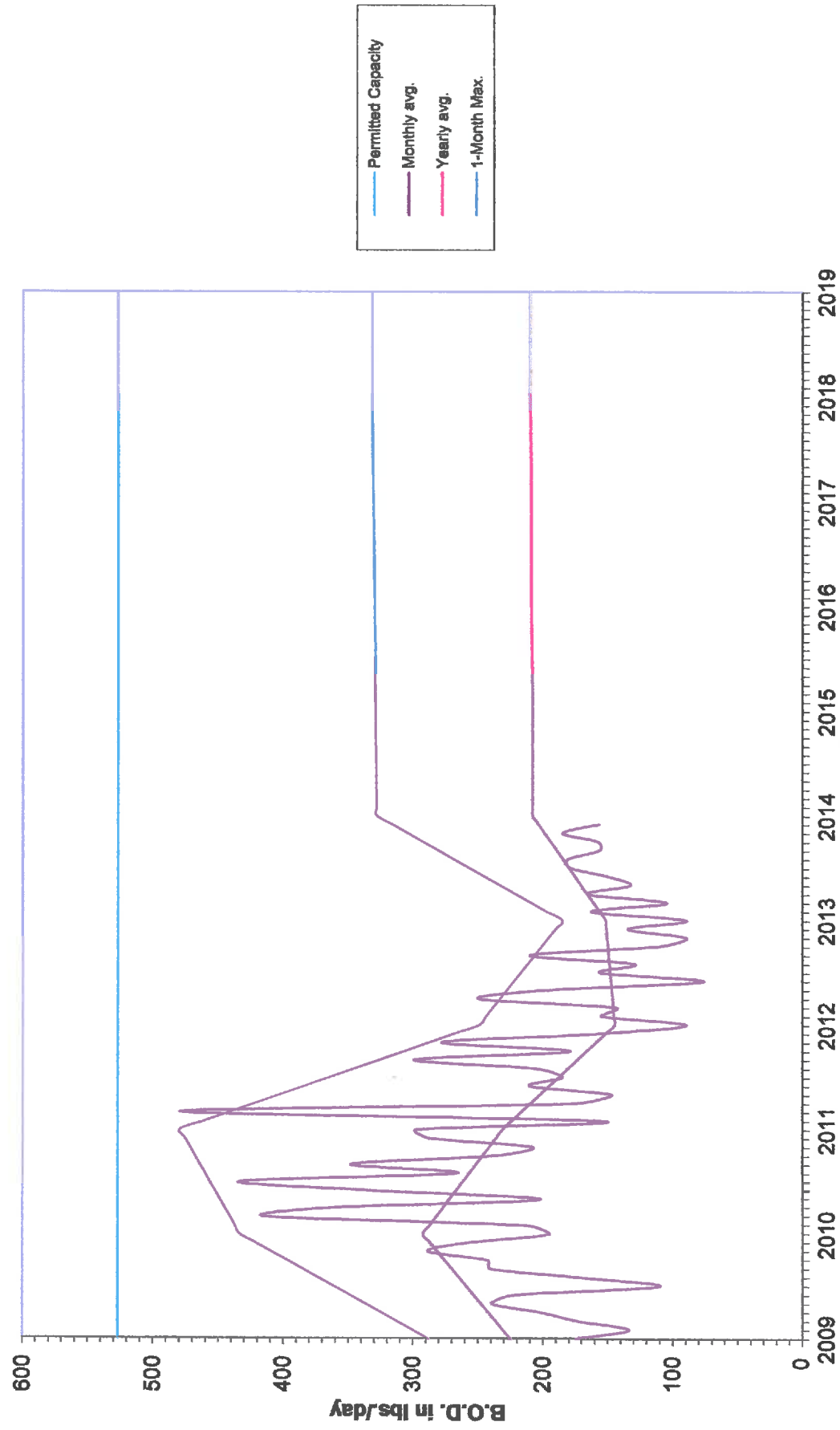
Year	Previous Load	Add'l EDU's	Increase + Load	Project = Load	x Ratio	Project 1-Mo. Max.	Design Load
2014	205	10	2.78	208	1.580	328	527
2015	208	2	0.56	208	1.580	329	
2016	208	2	0.56	209	1.580	330	
2017	209	2	0.56	209	1.580	331	
2018	209	2	0.56	210	1.580	332	

* Indicates highest monthly average

APPENDIX 4

ORGANIC LOADING GRAPH

HALIFAX AREA WATER AND SEWER AUTHORITY Organic Loading Graph



Halifax Chapter 94 - 2013

APPENDIX 5

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: 12/20/2013
METER#: C8201 AA
LOCATION: WASTEWATER - EFFLUENT
SERIAL #: 12286/9404-31238-B02
MANUFACTURER: BADGER/CHESSELL
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: +1% CORRECTED ACCURACY: $\pm 1\%$

COMMENTS: PERFORMED ANNUAL CALIBRATION. CLEANED PRIMARY. LEFT EQUIPMENT OPERATING PROPERLY. *FOUND DISPLAY GOING BAD ON 2210. REPLACED WITH A WORKING USED DISPLAY.

SERVICE REPRESENTATIVE: DENNIS
copies:

PERSON SEEN: JEFFREY

APPENDIX 6

GENERAL PLAN

APPENDIX 7

NON-COMPLIANCE REPORT

APPENDIX 8

EDU REPORT

USE THIS SUPPLEMENTAL FORM TO REPORT ALL PERMIT VIOLATIONS AND ANY OTHER NON-COMPLIANCE THAT MAY ENDANGER HEALTH OR THE ENVIRONMENT, IN ACCORDANCE WITH YOUR PERMIT. COMPLETE SECTIONS THAT APPLY. IF YOU ARE REPORTING VIOLATIONS OF PERMIT LIMITS, MONITORING REQUIREMENTS OR SCHEDULES THAT DO NOT POSE AN IMMEDIATE THREAT TO HEALTH OR THE ENVIRONMENT, YOU MUST ATTACH THIS FORM TO THE DISCHARGE MONITORING REPORT (DMR). TITLE 25, PA. CODE §§ 91.33 AND 91.34 (REGARDING INCIDENTS CAUSING OR THREATENING POLLUTION AND ACTIVITIES UTILIZING POLLUTANTS, RESPECTIVELY). IN PART REQUIRES IMMEDIATE NOTIFICATION BY TELEPHONE TO THE DEPARTMENT OF POLLUTION INCIDENTS, REMEDIATION, AND MAY REQUIRE AN ADDITIONAL REPORT ON THE INCIDENT OR PLAN OF POLLUTION PREVENTION MEASURES. IF YOU ARE REPORTING OTHER NON-COMPLIANCE EVENTS, AND THE REPORTING DEADLINE DOES NOT COINCIDE WITH YOUR SUBMISSION OF THE DMR, IT SHOULD BE SUBMITTED SEPARATELY TO THE DEPARTMENT BY THE REPORTING DEADLINE SET FORTH IN THE PERMIT. SEE INSTRUCTIONS FOR MORE INFORMATION.

Facility Name: Halifax STP Municipality: Halifax Borough County: Dauphin Month: MARCH Year: 2013 Permit No.: PA0024457

Violations of Permit Effluent Limitations:

Date	Parameter	Permit Limit	Units	Statistical Code	Result	Units	Cause of Violation	Corrective Action Taken
3-20-13	FECAL	3000			20,000		PLANT NOT WORKING RIGHT	SAMPLE RESULTS WERE LATE ON TWO - DIDN'T GET 20TH UNTIL 4-
3-27-13	FECAL	3000			20,000		" " " "	CALLER - DEP

☐ Sanitary Sewer Overflows and Other Unauthorized Discharges: ALL FECAL SAMPLES FOR MONTH WERE HIGH

Event Date	Substance Discharged	Location	Volume (gals)	Duration (hrs)	Receiving Waters	Impact on Waters	Cause of Discharge	Date DEP Notified

Other Permit Violations:

- ☐ Sample collection less frequent than required Explain
- ☐ Sample type not in compliance with permit Explain
- ☐ Violation of permit schedule Explain
- ☐ Other Explain
- ☐ Other Explain

DRAWN & CLEANED BOTH TANKS - (WORKING- BETTER) NOTE: 4-3-13
FECAL RESULTS → ②

* If the space provided is not sufficient to record all information, please attach additional sheets.

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel 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 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: JEFFREY L. GROSSE Signature: Jeffrey L. Grosse
Title: MANAGER Date: _____

MARCH
JUNE

NON-COMPLIANCE REPORTING FORM

Use this supplemental form to report all permit violations and any other non-compliance that may endanger health or the environment, in accordance with your permit. Complete all sections that apply. If you are reporting violations of permit limits, monitoring requirements or schedules that do not pose an immediate threat to health or the environment, you may attach this form to the Discharge Monitoring Report (DMR). Title 25, Pa. Code §§ 91.33 and 91.34 (regarding incidents causing or threatening pollution and activities utilizing pollutants, respectively), in part requires immediate notification by telephone to the Department of Pollution Incidents, remediation, and may require an additional report on the incident or plan of pollution prevention measures. If you are reporting other non-compliance events, and the reporting deadline does not coincide with your submission of the DMR, it should be submitted separately to the Department by the reporting deadline set forth in the permit. See instructions for more information.

Facility Name: Halifax STPMunicipality: Halifax BoroughCounty: DauphinMonth: MAYYear: 2013Permit No.: PA0024457
☒ Violations of Permit Effluent Limitations*

Date	Parameter	Permit Limit	Units	Statistical Code	Result	Units	Cause of Violation	Corrective Action Taken
5-1-13	FECAL	200			6000		CALED LAB	NONE
5-22-13	TSS	50			41		NOT SURE, LOOKED GOOD	CLEANED EFFLUENT

☐ Sanitary Sewer Overflows and Other Unauthorized Discharges*

FECAL AVERAGE IS OK

Event Date	Substance Discharged	Location	Volume (gals)	Duration (hrs)	Receiving Waters	Impact on Waters	Cause of Discharge	Date DEP Notified

☐ Other Permit Violations*

- ☐ Sample collection less frequent than required
☐ Sample type not in compliance with permit
☐ Violation of permit schedule
☐ Other
☐ Other

Explain
 Explain
 Explain
 Explain
 Explain

* If the space provided is not sufficient to record all information, please attach additional sheets.

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Prepared By: JEFFREY L. GROSSERTitle: MANAGERSignature: [Signature]Date: JUNE 10, 2013

MAY

NON-COMPLIANCE REPORTING FORM

Use this supplemental form to report all permit violations and any other non-compliance that may endanger health or the environment, in accordance with your permit. Complete all sections that apply. If you are reporting violations of permit limits, monitoring requirements or schedules that do not pose an immediate threat to health or the environment, you may attach this form to the Discharge Monitoring Report (DMR). Title 28, Pa. Code §§ 91.33 and 91.34 (regarding incidents causing or threatening pollution and activities utilizing pollutants, respectively), in part requires immediate notification by telephone to the Department of pollution incidents, remediation, and may require an additional report on the incident or plan of pollution prevention measures. If you are reporting other non-compliance events, and the reporting deadline does not coincide with your submission of the DMR, it should be submitted separately to the Department by the reporting deadline set forth in the permit. See instructions for more information.

Facility Name: Halifax STPMonth: JUNEYear: 2013Municipality: Halifax BoroughCounty: DauphinPermit No.: PA0024457
☒ Violations of Permit Effluent Limitations*

Date	Parameter	Permit Limit	Units	Statistical Code	Result	Units	Cause of Violation	Corrective Action Taken
6-26-13	COD	25	mg/l		25.1		NOT SURE	NONE
6-26-13	COD	40	mg/l		57		" "	" "

☐ Sanitary Sewer Overflows and Other Unauthorized Discharges*

SAMPLE LOOKED GOOD, (SAME SAMPLE)

Event Date	Substance Discharged	Location	Volume (gals)	Duration (hrs)	Receiving Waters	Impact on Waters	Cause of Discharge	Date DEP Notified

☐ Other Permit Violations*

- ☐ Sample collection less frequent than required
☐ Sample type not in compliance with permit
☐ Violation of permit schedule
☐ Other
☐ Other

Explain
 Explain
 Explain
 Explain
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Prepared By:

JEFFREY L. GROSSER

Title:

MANAGER

Signature:

Jeffrey L. Grosser

Date:

JUNE 23, 2013JUNE

Use this supplemental form to report all permit violations and any other non-compliance that may endanger health or the environment, in accordance with your permit. Complete all sections that apply. If you are reporting violations of permit limits, monitoring requirements or schedules that do not pose an immediate threat to health or the environment, you may attach this form to the Discharge Monitoring Report (DMR). Title 25, Pa. Code §§ 91.33 and 91.34 (regarding incidents causing or threatening pollution and activities utilizing pollutants, respectively), in part requires immediate notification by telephone to the Department of pollution incidents, remediation, and may require an additional report on the incident or plan of pollution prevention measures. If you are reporting other non-compliance events, and the reporting deadline does not coincide with your submission of the DMR, it should be submitted separately to the Department by the reporting deadline set forth in the permit. See instructions for more information.

Facility Name: Halifax STP Month: DECEMBER Year: 2013
Municipality: Halifax Borough County: Dauphin Permit No.: PA0024457

☒ Violations of Permit Effluent Limitations*

Date	Parameter	Permit Limit	Units	Statistical Code	Result	Units	Cause of Violation	Corrective Action Taken
12-26-13	COD	40			43		NOT SURE	CLEANED TANK
12-26-13	SS	45			120		" "	CLG CONTACT

☐ Sanitary Sewer Overflows and Other Unauthorized Discharges*

Event Date	Substance Discharged	Location	Volume (gals)	Duration (hrs)	Receiving Waters	Impact on Waters	Cause of Discharge	Date DEP Notified

☐ Other Permit Violations*

- ☐ Sample collection less frequent than required Explain
☐ Sample type not in compliance with permit Explain
☐ Violation of permit schedule Explain
☐ Other Explain
☐ Other Explain

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Prepared By: JEFFREY L. GROSSER Signature: Jeffrey L. Grosser
Title: MANAGER Date: JAN. 17, 2014

DEC

EDU REPORT 2013

RESIDENTIAL	573
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NON-RESIDENTIAL	188
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