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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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 sewering 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: A

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

Glace Associates, Inc. - Preparer

APPENDICES

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APPENDIX 1

HYDRAULIC LOADING DATA AND PROJECTIONS

HALIFAX WASTEWATER TREATMENT PLANT HYDRAULIC LOADING DATA

Monthly Average Wastewater Flows (MGD)

			MO	nthly Av	erage	• Wastev	<i>r</i> ater	Flows (i	MGD))		
	MONTH	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	tle	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		
												5 Year Averages
Annual A	verage	0.116		0.127		0.180		0.105		0.105		0.127
Max. 3	3-Month											
Average D	aily Flow	0.124		0.137		0.218		0.117		0.113		
Ratio (Max												
to Annual	Average)	1.069		1.079		1.211		1.114		1.076		1.110
	EDU's	736		737		737		737		737		
Flow/FC	U (GPD)	158		172		244		142		142		172
. 1041/66	(0. 0)	100		112-		277		174		174		112
Rainfall (i	nches)	58.20		51.35		79.90		47.65		45.20		

PROJECTED HYDRAULIC LOADINGS (MGD)

Year	Previous Flow	Add'i 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

- Permitted Capacity - 3-Month Max. - Monthly avg. -Yearly avg. HALIFAX AREA WATER AND SEWER AUTHORITY Hydraulic Loading Graph 0.280 0.260 Flow in MGD 0.160 0.240 0.220 0.200 0.180 0.100 0.080 0.060 0.040 0.020

Halifax Chapter 94 - 2013

2019

2018

2017

2016

2015

2014

2013

2012

2011

2010

0.000

APPENDIX 3

ORGANIC LOADING DATA AND PROJECTIONS

HALIFAX WASTEWATER TREATMENT PLANT ORGANIC LOADING DATA

Monthly Average Influent BOD5 Loadings (lbs/dav)

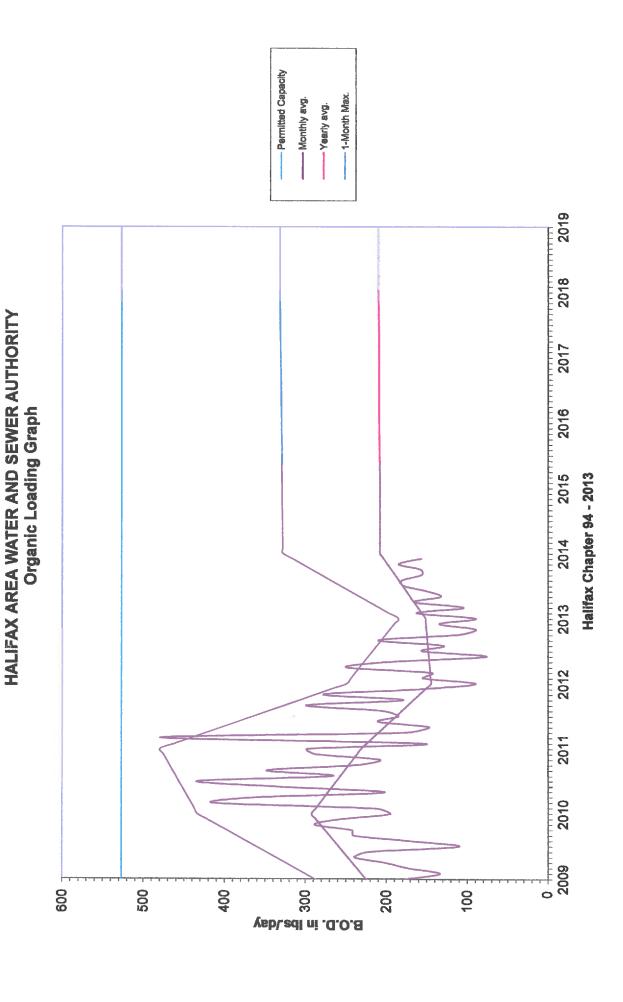
		Mon	ithly	Average	e ini	Huent BOL	15 L.O	adings ((lbs/d	lay)			
	MONTH	2009		2010		2011		2012		2013			
	January	175		195		297		90		90			
	February	134		213		154		155		163			
	March	173		413		479	*	144		105			
	April	201		365		176		249	*	166			
	May	239		202		147		197		133			
	June	222		332		210		77		150			
	July	111		433	tt:	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	th.	r	
	December	258		287		158		135		157			
	<u> </u>										-	5 Year Avera	ges
Annual A	\verage	204		292		231		145		152		205	
Max.	1-Month												
Avg. Daily		288		433		479		249		185			
Defe (Me	u d Manulla												
to Annua	x. 1-Month al Ava.)	1.410		1.485		2.077		1.712		1.217		1.580	
	0,												
BOD	(mg/l)	215		268		173		182		185		205	
ED	U'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	42 1
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



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: ± 1%

TOTALIZER CALIBRATION CHECKED AT: 0, 50 & 100%

ERROR: 0% CORRECTED ACCURACY: ± 1%

TRANSMITTER CALIBRATION

SIMULATED HEAD RISES AND FLOW MEASUREMENTS

ERROR: +1% CORRECTED ACCURACY: ± 1%

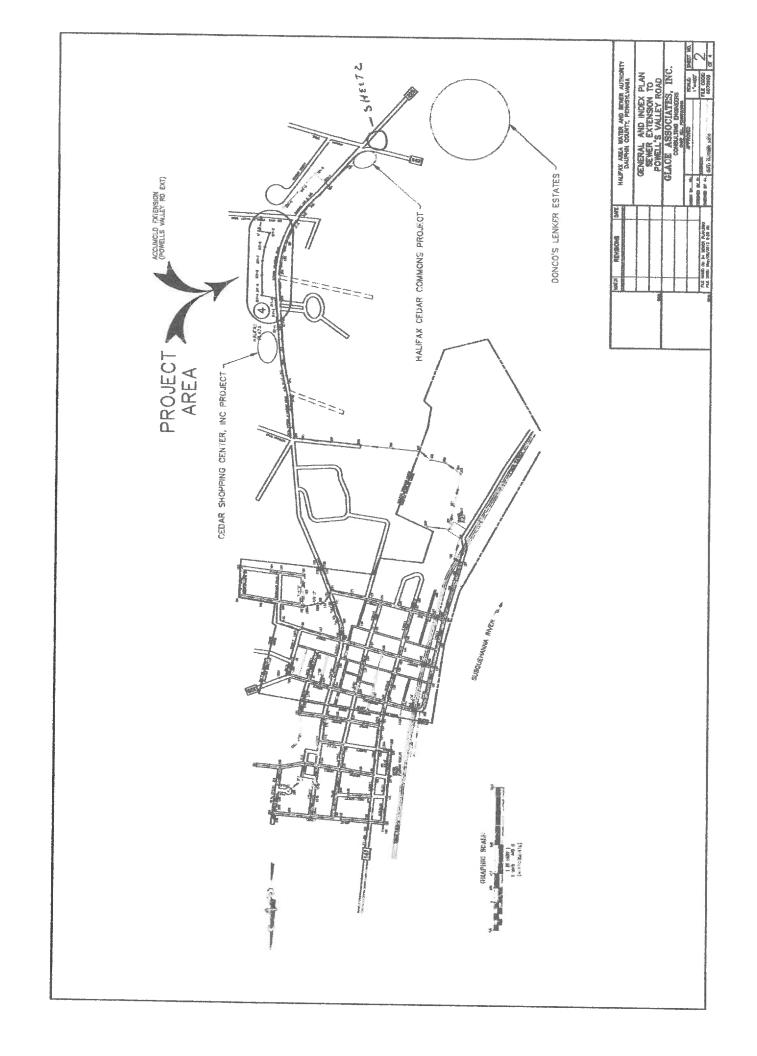
COMMENTS: PERFORMED ANNUAL CALIBRATION. CLEANED PRIMARY. LEFT EQUIPMENT OPERATING PROPERLY. *FOUND DISPLAY GOING BAD ON 2210. REPLACED WITH A WORKING USED DISPLAY.

SERVICE REPRESENTATIVE: DENNIS

PERSON SEEN: JEFFREY

copies:

APPENDIX 6 GENERAL PLAN



APPENDIX 7 NON-COMPLIANCE REPORT

APPENDIX 8 EDU REPORT

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amit. Complete ironment, you on and activity may require s not coincide utility.		SOTH CNTSC 4- Corrective Action Taker	0 - DE	Date DEP Notified	51-54 55-62	
Sections that apply. If you are reported you have any other non-compliance that may endanger health or the environment, in accordance with your permit. Complex attach this form to the Discharge Monitoring Report (DMR). Title 28, Pt. Code §§ 91.33 and 91.34 (regarding incidents caucing or threatening pollution and activity additional report on the incident or plan of pollution measures. If you are reporting deadline events, and the reporting deadline does not coincident. Halifax STP	Year2013		WERE HOOH	Cause of Discharge	+ CLEANED BOTH TANK - (WORKENG BETTER) NOTE: 4-3-13 Explain Explain Explain Explain	
health or the environment do not pose an immediagending incidents caupartiment of pollution is on-compliance events, an est forth in the permit. See	Month: MARCIA Permit No.: PA0024457	7 32	S FOR MONTH	Impact on Waters	- (WORKEND- B	
npliance that may endanger quirements or achedules the ode §§ 91.33 and 91.34 (i) by telephone to the De If you are reporting other net to by the reporting deadline	Month: Permit I	ン形 、	Sanitary Sewer Overflows and Other Unauthorized Discharges* ALL FECAL SAMPLES FOR MONTH WELE HIGH Event Date Discharged (Volume Duration Receiving		DANAL HYDA	
ny other non-coulds, monitoring re Title 26, Pt., C late notification tion measures. to the Department	County: Dauphin	Statistical Code	Discharges* F	(gals)	CLEANEO Explain Explain Explain Explain	Explain
all permit violations and a ring violations of permit lim pritoring Report (DMR), in part requires immed plan of pollution prevent be submitted separately.	Violations of Permit Effluent Limitations	기되니	od Other Unauthorized	попрост	DRAZAED ent then require ce with permit	
thal form to report if you are report the Discharge M. e. respectively), in the incident or the DMR, it should	Halifax Borough	Parameter FECAL FECAL	ver Overflows a Substance Discharead		ermit Violations* Sample collection less frequesample type not in complian Violation of permit schedule. Other	
the this supplement apply. Itsech this form to tilizing poliutant additional report of the submission	Municipality: H	3-10-13 3-81-45	Sanitary Sev Event Date		Sample collections: Sample collection Sample type not it Violation of permit	If the anser
	区				3	4

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 my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, the information submitted is, to the best of violations. See 18 Pa. C.S. § 4904 (relating to unavoim falsification). if the space provided is not sufficient to record all information, please attach additional sheets.

MANASER Title:

Signature: Date:

MARCH

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NON-COMPLIANCE REPORTING FORM

sections that apply. If you are reporting violations of permit limits, monitoring requirements or schedules that do not pase an immediate threat to health or the environment, you ma attach this form to the Discharge Monitoring Report (DAR). Title 25, Pa. Code §§ 91.33 and 91.34 (regarding includents caucing or threatening pollution and activities and may require an includents remarkable to many many requirements. 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

addition of the second	ng polluta onal repor ubmission	ants, r	utilizing pollutante, respectively), in part requires immediate notification by telephone to the Department of pollutante, remediator, and mass not coincide wit 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 wit 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.	part requires in of politifican submitted sep	preventic arately to	e notification on meneuros	n by telephone. If you are reported to the reporting the reported to the repor	e to the Day orting other in ng deadline a	ertment on- on-complian et forth in th	lists notification by telephone to the Department of politition incidents, remediation, with measures, if you are reporting other non-compliance events, and the reporting deadline does not to the Department by the reporting deadline set forth in the permit. See instructions for more information	the reporting destructions for	adine does n nore information	of coincide with on.
Facility	Facility Name:	Ī	Halifax STP					Morth	14	MAH	Year.	2013	
Munik	Municipality:	里	Haliflex Borough		County:	Dauphin		Perm	Permit No.: F	PA0024457			
区	Violatio	one of	Violations of Permit Effluent Limitations*	Limitations*									9
	Date		Parameter	Permit	Carite	Statistical Code	Result	Units	ŭ	Cause of Violation	uo		Corrective Action Taken
	67-10-13	573	PECAL	05 98			6,000 41		7.0v	CAU ED LAB NOT SUIE, LOCKED COD	ממפים פאסמ	CLEAN	MONE BELLENI
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	Event Date	Date	Substance Discharged	Location	Ę	Votame (gats)	Duration (firs)	Receiving Waters	Imp.	Impact on Waters	Cause of Discharge	Discharge	Date DEP Notified
	Other Po	erraft	Other Permit Violations*										
		Samp	Sample collection less frequent than required Sample type not in compliance with permit Antalian of parmit achedials	frequent than npliance with packets	required	Explain Explain Explain							
	000	9 0				Explain	ain ain						
* 14	18 ST 18 CH	NOJG 6	* If the space provided is not sufficient to record all information, please attach additional sheets.	ifficient to r	ecord a	Il informat	ion, please	attach add	itional si	sects.			

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 information, the information, the information, the information submitted is, to the best my knowledge and belief, true, accurate and complete. I am aware then there are significant penalties for submitting false information, including the possibility of fine and imprisonment for 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. See 18 Pa. C.S. § 4904 (relating to unsworn falsification). Signature: GROSSER CHERE! Prepared By:

MANAGE

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Date:

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NON-COMPLIANCE REPORTING FORM

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 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 55 91.33 and 91.34 (regarding incidents causing or threatening pollution and activities 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 parmit. Complete all your submission of the DMR, it should be submitted seperal by the Department by the reporting deadline set forth in the permit. See instructions for more information.

	Action Tak	AMPLE	Date DE Notffle		
Year: 2013	Corrective Action Tak NONE	SAME SAMPLE	Cause of Discharge		
	Ę	(>	Cause of		
CYLM/E 0:: PA0024457	Cause of Violation	SAMPLE LOOMED GOOD,	Impact on Waters		
Month: Permit No.:	Cuits	07 3	Receiving Waters		
		Ampil.		1.	
	Result 2.5.1	S	Duration (Arrs)		55555
County: Dauphin	Statistical Code	Olscharges*	Volume (gats)		Explain Explain Explain Explain
County:	Undites Aug/mo	thorized	g		ermit ermit
imitations*	Permit Limit 2.5 40	Other Unau	Location		equent than liance with p
Name: Halifax STP slity: Halifax Borough Violations of Permit Effluent Limitations*	Parameter CROD	Sanitary Sewer Overflows and Other Unauthorized Discharges*	Substance	Violetions*	Sample collection less frequent than required Sample type not in compliance with permit Violation of permit schedule Other Other
Facility Name: Hall Municipality: Hall	Dets (4-36-73 (6-36-73	Sanitary Sew	Event Date	Other Permit Violations*	Semple Se
Facility Nam Municipality:			7		4

spare provided to not sufficient to record all information, piesss attach additional sheets. DE 24 E

Fortify under pencity of taw that this document was propered under my direction or supervision in accordance with a system designed to secure that qualitied personnel gather and evaluate the serionnellon submitted. Based on my inquity of the person or persons who manage the system or those garaons 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 algorithms for submitting fates information, including the possibility of fine and imprisonment for knowing violations. See 18 Ps. C.S. § 4804 (relating to unaworn talaification).

Propered By: SEFFREY C. GROSSE.

Signature: Dato:

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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 attach this form to the Discharge Monitoring Report (DMR). Title 25, Pa. Code 55 91.33 and 91.34 (regarding incidents causing or threatening pollution and activities udilizing 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 politition prevention measures. If you are reporting other non-compliance events, and the reporting deadline does not coincide with 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 Corrective Action Taken Date DEP Notified アタンズ CONTROL 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. CLEANED Year. 2013 Cause of Discharge DECEMBER Cause of Violation Impact on Waters PA0024457 SUR * If the space provided is not sufficient to record all information, please attach additional sheats. Permit No.: Month: Receiving Waters Critis Result Duration Explain Explain Explain Explain Explain Sanitary Sewer Overflows and Other Unauthorized Discharges' Starting of car Dauphin Code Volume (Sale) County: Safes Sample collection less frequent than required Sample type not in compliance with permit Location E Permit Violations of Permit Eifluent Limitations* 9 Molation of permit schedule Perameter Discharged Substance Halifax Borough 100 Other Permit Violetions* Halifax STP Other Other 2-26-6 -26-13 Event Date Date Facility Name: Municipality: A

f certify under ponetty of taw 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 is, to the best of my knowledge and belief, tuo, accurate and complete. I am aware that there are significant penables for submitting false information, including the possibility of fine and imprisonment for knowling violations. See 18 Pa. C.S. § 4504 (relating to unaworn falsification).

Propared By: JEHREY L. CROSSER

Signature:

Date:

SOLD OF BLOWS

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EDU REPORT 2013

RESIDENTIAL

573

NON-RESIDENTIAL

188