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	MARCH 2018
	CHAPTER 94 WASTELOAD MANAGEMENT REPORT FOR CALENDAR YEAR 2017 HALIFAX AREA WATER AND SEWER AUTHORITY DAUPHIN COUNTY, PENNSYLVANIA
	HRG Project No. 001650.0425



CHAPTER 94 MUNICIPAL WASTELOAD MANAGEMENT ANNUAL REPORT

For Calendar Year: 2017

	 ☑ 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 INFO	ORMATION				
Pe	rmittee Name:	Halifax Area Water and Sewer Authority	Permit No.:	PA0024457			
Ма	niling Address:	PO Box 443	Effective Date:	May 1, 2017			
Cit	y, State, Zip:	Halifax, PA 17032	Expiration Date:	April 30, 2022			
Co	ntact Person:	Jeffrey Grosser	Renewal Due Date:	November 1, 2021			
Titl	e:	Operator	Municipality:	Halifax Borough, Halifax Twp			
Ph	one:	717-896-3886	County:	Dauphin			
Em	nail:	jgrosser@hawasaonline.com	Consultant Name:	Herbert, Rowland & Grubic, Inc.			
		CHAPTER 94 REPOR	T COMPONENTS				
	 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. (25 Pa. Code § 94.12(a)(1)) Check the appropriate boxes: Line graph for flows attached (Attachment A) DEP Chapter 94 Spreadsheet used (Attachment A) Section 1 is not applicable (report is for a collection system). 						
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. (25 Pa. Code § 94.12(a)(2)) Check the appropriate boxes: ☑ Line graph for organic loads attached (Attachment A) ☑ DEP Chapter 94 Spreadsheet used (Attachment A) ☑ Section 2 is not applicable (report is for a collection system). 						
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)) Based on the projected hydraulic and organic loadings for the next five years, no overload is expected at the Halifax WWTP. 						

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)

Schedules describing how each project will be completed over time and effects attached (Attachment B)

List summarizing each extension or project attached (**Attachment B**)

Comments:

No new sewer extensions were approved or exempted in 2017. New connections served by the Authority in 2017 include the Mid Penn Bank located at 3583 and 3589 Peters Mountain Road (1 EDU) and a single family dwelling located on Fellowship Drive replacing an on-lot disposal system (1 EDU). In 2018, a planning module exemption was submitted for the proposed Members 1st Federal Credit Union (1 EDU) and for the future development of an adjacent vacant lot (1 EDU) at the intersection of S.R. 225 and S.R. 147. All of the new connections and proposed developments mentioned above are located in Halifax Township and outside of the current connection restriction.

Halifax Township is currently investigating the preparation of an Act 537 Sewage Facilities Plan for connections of facilities beyond 5 years in the future which will include the extension of sewer.

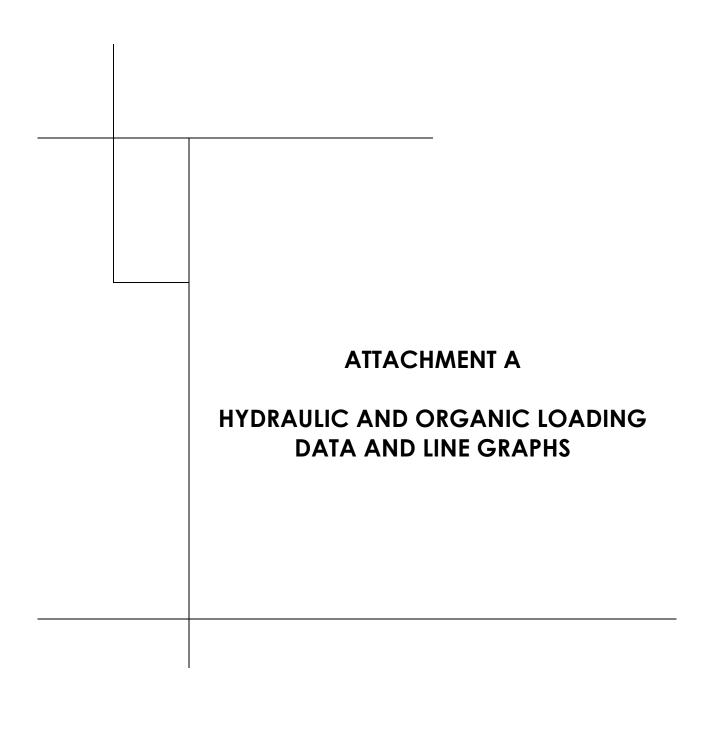
5. Discuss the permittee's program for sewer system monitoring, maintenance, repair and rehabilitation, including routine and special activities, personnel and equipment used, sampling frequency, quality assurance, data analyses, infiltration/inflow monitoring, and, where applicable, maintenance and 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 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. 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 have been observed in the collection system. The system is not a combined sewer system and no regulators are present. WWTP Upgrades are currently being evaluated in response to the draft Consent Order and Agreement from PA DEP dated January 10, 2018.

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 were observed in the collection system. Improvements to the Main Pumping Station at the WWTP are being considered as part of the WWTP Upgrade project mentioned below.
	Corrective Action Plan (CAP) - Consent Order and Agreement (COA) Update: HAWASA submitted a revised CAP dated June 20, 2017 to PA DEP. In response to the draft COA dated January 10, 2018 for WWTP effluent violations between March 2013 and September 2017, HAWASA submitted a formal comment letter dated January 31, 2018 requesting revision to the draft COA. HRG is currently preparing the draft Design Engineer's Report and Uniform Environmental Report for the WWTP Upgrade project and have met with equipment manufacturers to review process treatment alternatives for the project. Alternatives under review for the new WWTP process include Main Pumping Station improvements, Screenings addition, Biological Nutrient Removal (BNR) process improvements, Ultraviolet Light (UV) Disinfection, and solids processing – aerobic sludge digestion improvements.
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)

9.	Existing or Projected Overload.				
		ad condition. d condition.			
10	Where required by the NPDES permit attach a Sewage	Sludge Management inventory that demonstrates a mass			
10.	balance of solids coming in and leaving the facility over th				
	Sewage Sludge Management Inventory attached (Att	achment D)			
11.	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 the been calibrated annually. (25 Pa. Code § 94.13(b))	at flow measuring, indicating and recording equipment has			
	RESPONSIBLE OFFIC	IAL CERTIFICATION			
sub for con	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).				
Fre	d L. Ford, Jr., Chairman				
Nar	ne of Responsible Official	Signature			
	-896-3886				
Tele	ephone No.	Date			

PREPARER C	ERTIFICATION					
certify under penalty of law that this document and all attachments were prepared by me or otherwise under my direction resupervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated be 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).						
Justin J. Mendinsky, P.E.						
Name of Preparer	Signature					
717-564-1121						
Telephone No.	Date					





PADEP Chapter 94 Spread: Sewage Treatment Pl

Reporting Year:

2017

3.5

Facility Name: Halifax Wastewater Treatment Plant

Permit No.: PA0024457

Persons/EDU:

Existing Hydraulic Design Capacity: Upgrade Planned in Next 5 Years? Future Hydraulic Design Capacity: 0.21 MGD

Year:

Existing Organic Design Capacity: Upgrade Planned in Next 5 Years? Future Organic Design Capacity:

527

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

Ibs BOD5/day
Year:
Ibs BOD5/day

Monthly Average Flows for Past Five Years (MGD)

	INIOII	tilly Average i	10W3 101 1 431	t i ive i ears (i	<u> </u>
Month	2013	2014	2015	2016	2017
January	0.098	0.0866	0.0774	0.0902	0.0787
February	0.101	0.0822	0.0691	0.1269	0.0819
March	0.103	0.102	0.0976	0.1153	0.0906
April	0.102	0.1446	0.1123	0.1062	0.122
May	0.105	0.1525	0.121	0.1173	0.1128
June	0.115	0.1541	0.129	0.1239	0.1168
July	0.116	0.1284	0.1264	0.1244	0.1444
August	0.108	0.1155	0.1181	0.1198	0.1456
September	0.104	0.1117	0.11	0.1038	0.122
October	0.109	0.1009	0.0985	0.0915	0.1047
November	0.096	0.0832	0.0924	0.0784	0.0914
December	0.102	0.095	0.0996	0.0765	0.0748
Annual Avg	0.105	0.1131	0.1043	0.1062	0.1071
Max 3-Mo Avg	0.113	0.1504	0.1255	0.1227	0.1373
Max : Avg Ratio	1.08	1.33	1.20	1.16	1.28
Existing EDUs	737.0	739.0	739.0	749.0	751.0
Flow/EDU (GPD)	142.5	153.0	141.1	141.8	142.6
Flow/Capita (GPD)	40.7	43.7	40.3	40.5	40.7
Exist. Overload?	NO	NO	NO	NO	NO

Month	2013	2014	2015	2016	2017
January	90	96	136	380	99

January	90	96	136	380	99
February	163	140	101	325	86
March	105	155	142	253	105
April	166	153	199	190	297
May	133	241	347	262	197
June	15	317	513	303	197
July	179	362	317	328	106
August	181	200	171	208	220
September	157	168	357	152	257
October	158	190	273	466	193
November	185	156	100	175	221
December	157	153	147	148	110
Annual Avg	141	194	234	266	174
Max Mo Avg	185	362	513	466	297
Max : Avg Ratio	1.31	1.86	2.20	1.75	1.71
Existing EDUs	737	739	739	749	751
Load/EDU	0.191	0.263	0.316	0.355	0.232
Load/Capita	0.055	0.075	0.090	0.101	0.066
Exist. Overload?	NO	NO	NO	NO	NO

Projected Flows for Next Five Years (MGD)

	2018	2019	2020	2021	2022
New EDUs	2.0	2.0	2.0	2.0	2.0
New EDU Flow	0.0003	0.0003	0.0003	0.0003	0.0003
Proj. Annual Avg	0.1074	0.1077	0.108	0.1083	0.1086
Proj. Max 3-Mo Avg	0.1299	0.1302	0.1306	0.131	0.1313
Proj. Overload?	NO	NO	NO	NO	NO

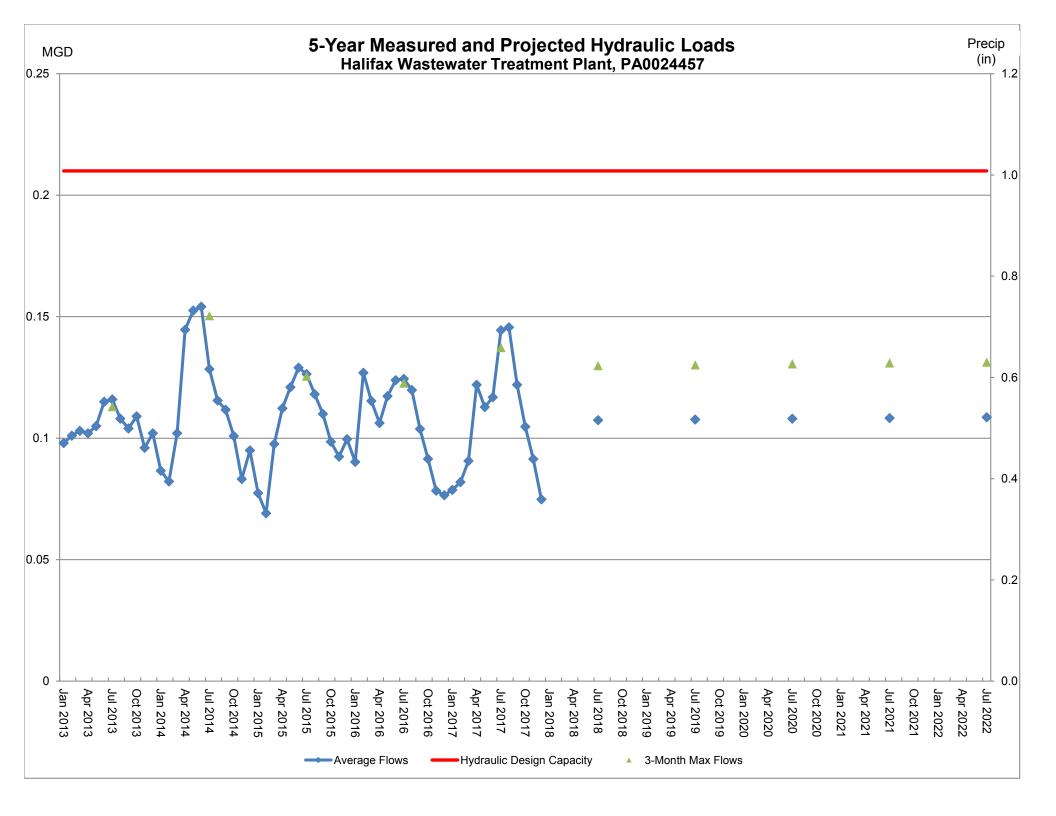
Projected BOD5 Loads for Next F	ive Years (lbs/day)
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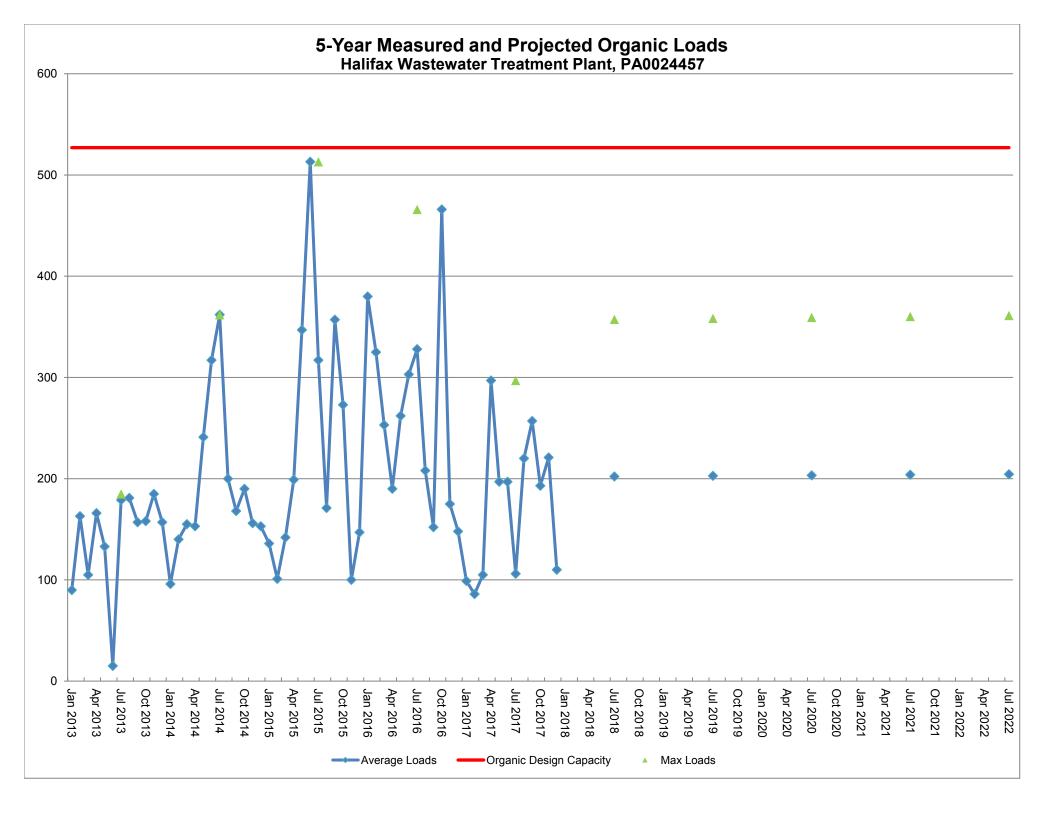
	Trojected Bobb Eddus for Next Five Tears (Ibs/day)					
	2018	2019	2020	2021	2022	
New EDUs	2	2	2	2	2	
New EDU Load	0.543	0.543	0.543	0.543	0.543	l
Proj. Annual Avg	202	203	203	204	204	
Proj. Max Avg	357	358	359	360	361	
Proi. Overload?	NO	NO	NO	NO	NO	

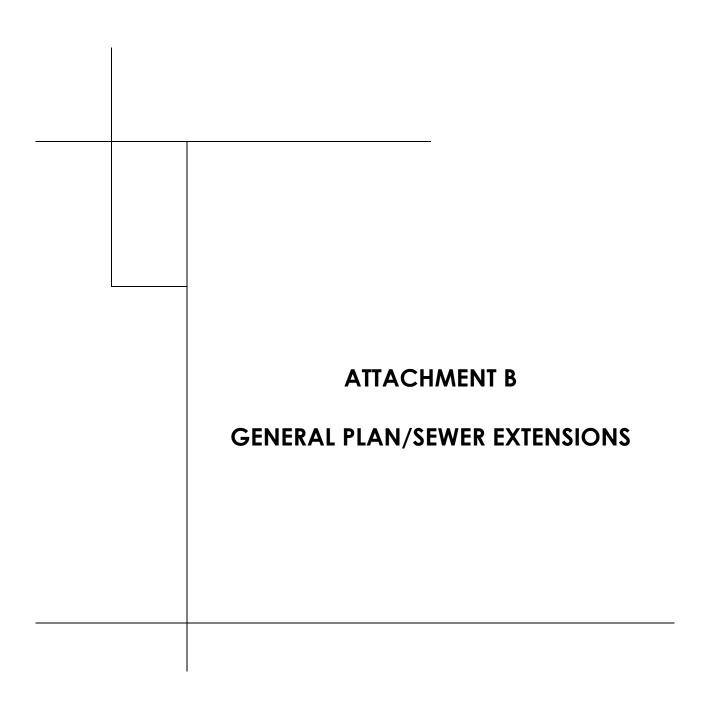
Show Precipitation Data on Hydraulic Graph?

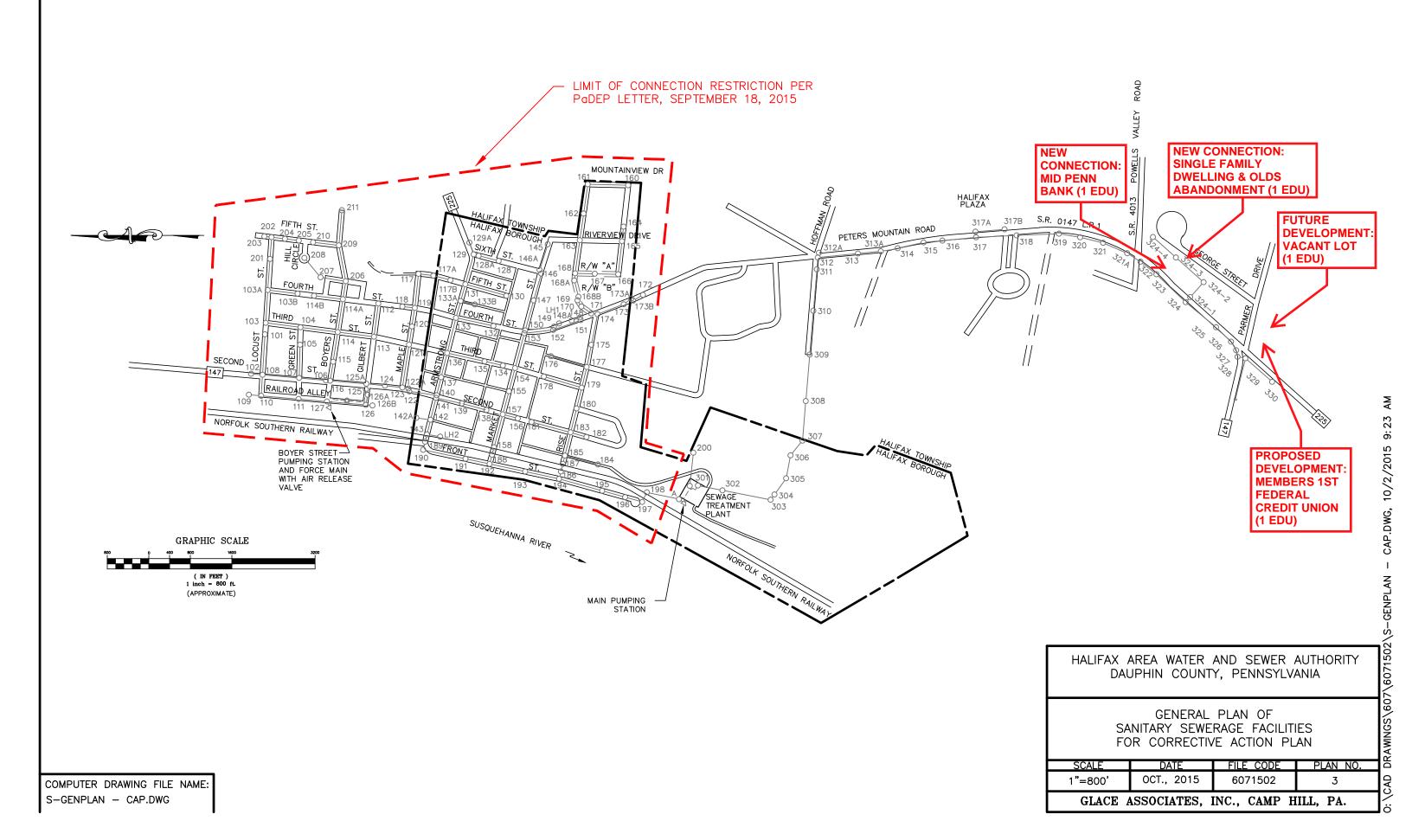
Total Monthly Precipitation for Past Five Years (Inches)

	Total Monthly 1 recipitation for 1 ast 1 we rears (inches)						
Month	2013	2014	2015	2016	2017		
January				2.0			
February				3.5			
March				1.6			
April				1.7			
May				5.15			
June				2.75			
July				4.8			
August				1.35			
September				2.05			
October				1.5			
November				1.5			
December				3.2			









ATTACHMENT C CONDITION OF PUMP STATIONS

CONDITION OF THE PUMP STATIONS

HAWSA utilizes two (2) pump stations throughout the sanitary sewer system. The pump stations are maintained and inspected by the operators on a regular basis. Cleaning, repairs, and routine maintenance items are performed as needed.

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

Design Capacity: 50 gpm (1 pump basis)
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 the station is typically around 2 hours per week, usually divided equally between the pumps.

<u>Main Pumping Station</u> - 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, discharging 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.

The recorded pump hours attached indicate an overloaded pump station condition. In accordance with the existing Corrective Action Plan (CAP) and draft Consent Order and Agreement (COA) developed for the WWTP, improvements to the Main Pumping Station are currently being evaluated and will be addressed as part of the WWTP Upgrade project.

Design Capacity: 175 gpm (1 pump basis)

Present Flows: Average: 70 gpm (estimated based on plant flow)

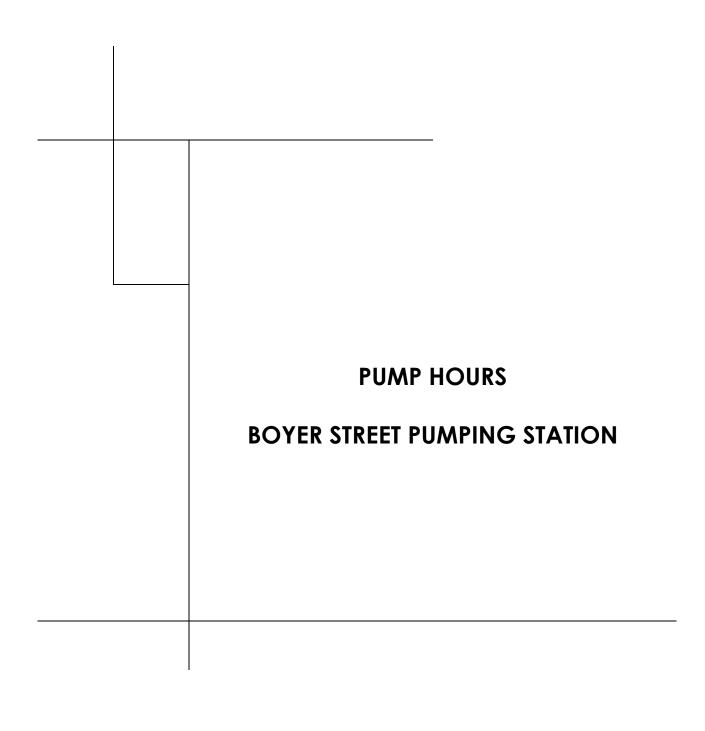
Maximum (Peak Hourly Flow estimated): 240 gpm

Projected two-year maximum peak hourly flow estimated: 240 gpm (based on effective capacity of 2 pumps together into small 4-inch force

main)

As noted plant return flows are included.

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.



		BOYER	STREET P	UMP STATI	ON	
DATE:	TIME:	PUMP #1	HOURS	PUMP #2	HOURS	TOTAL
10-10-16	1100	615.4	-5	375.4	<u>-</u> 6	1-1
10-14-16	1030	615.4 617.4 617.9 619.7 626.8 632.7	-5 -7	375.4 376.7 376.7 377.4 378	.8 .7 -6	
16-17-16	0845	616.6	.8	376-7	-3 B	1.0
10-21-16	1030	617.4	,8,	377.4	.7	1.5
10-24-16	1010	617.9	1-2	378	-6	1-2
10-31-16	1035	619.	1.2	379. 1 379. 8 380. 3	1-1	2.3 2.3 1.0
11-4-16	10:45	619.7	·6 •5 •9 •9 ••3	379. 1 379. 8 280. 3	.7	1.3
11-7-16	1030	620.2	-5	380-3	.5	1.0
11-11-16	09 55	620.8	.6	380.9	1.7	
11-20-16	10:05	632.7	1.9	380.9 382.6 393.5	1.7	3.6
11-25-16	1000	623.5	. 8	393.5	9	1-7
12-1-16	1005	624.7	1.2	384.6	1.1,	2.3
12-5-16	11)35	623.5 624.7 625.2	.5_	395.2	.7 1.9	1-1,
12-9-16	1000	625.9	:7	385.9 387.7	. 1	3.4
12-19-16	1000	021.5	1.6 -7 .8		1.9	3.4
12-23-16	1000	678.7	-7	388.6 389.5 391.3	-9	1.6
12-20-16	0645	629	.9	399.5 391.3 392.4 394	-9	1-7
1-6-19	1010	6304	1.0 1.0 1-2	391.3 392.4	1.8	3-4
1-12-17	1015	60316	1.0	392,6	1.3	2.3
1-19-17	1035	632.0	1-2	394	1.8 1.3 1.4 1.0	2.6
1-23-17	1040	033-5	-2	395	1.0	1-7
	0835	634-3	. 6 . 6 1.5	395 396.4 397.2 394.9	1-4	2.2
1-30-17	1000	431-4	. 6	37/2	~ 5	1.9
2-6-17	0815	630.4	1.5	2 1000	1,7	3.2 3.1 3.1
2-12-11	1045	638 639.5	1-6	400.4	4-5	3-1
3-20-17	1020	0010	1.5	402.9	7.6	3.1
2-24-17	1100	640.5	1-0		-9	19
ベームト []	1020	641-2	07	403.6	17	1.4

GEN. - 1020 - RUN

		BOYER	STREE	T PUM	P STATI	ON		
DATE:	TIME:	PUMP #1	HOURS		PUMP #2	HOURS		TOTAL
2-28-17	0930	641.5	,3		4039	.3		-6
3-28-17	1030	1.12	1.5		403.9	16		3.1
3-13-17	1030	643	1.5		407.1	1.60		3.4
3-20-17	1045	10A69	2.1		409.1	2.0		4.1'
3-20-17	11/15	647.9 646.9 649	1.8		411-4	2.0		4.4
3-30-17	10:05	649.8 651.5 652.4 653.3 655.6	. 8		412.1	.7		1.5
4-5-17	10:05	(05/5	17	ALARM	413.6	1.5	ON	3-2
4-5-17	1000	6518	23	2-On1	4138	1.5		5
4-7-17	1005	1052.4	.10		414.4	1-1.		1.5 3.2 1.2
4-10-17	1 1030	10533	Bocolor		415.5	1.1		2.0
4-17-17	1030	255-3	2		4179	24		4.4
4-18-17	1095	65510	3	1	418.2	2.4		.6
4-18-17 5-1-17 5-4-17	0950	10510.5	. 9		419.1	0		1.8 6.4 2.0 2.8 2.6 2.0 4.1
5-1-17	1030	656.5 660.4	3	<u> </u>	422.5	3.4		64
5-4-17	1020	660.4	-9		423.6	2-1		2.0
C-17-17	1050	10/01-1	1.3		4251	15		28
5-12-17	5040	62.9	11		926.5	1.4		26
5-12-17	1015	6129	1.0		427.5	10		2.0
5-22-17	1030	663.9	2.0		429.6	2.1		4.1
5-22-17	1030	961-1 961-1 963-9 965-9	2.0		431.8	2.2		11
2-5-17	1035	667-8	7.4		431-8	2.1		3.3
0-12-17	1030	1,706	1.4		435.6	1.9		4.1 3.3 3.3 1.7
6-16-17	1030	671-3	-7		436.6	1		1.7
6-19-17	1045	1272.1	18		437.3			1.5
10-21-17	1020	672.1	2.1		439.5	2.2		4.3
7-3-17	0845	10710.7	2.0	1	441.5	2.0		4.0
7-3-17	1030 0845 1030	678.0	1.8		441.5 443.9 444.8	2.0		4.04
7-17-17	1020	678.9	1.8		444.8	.9		1.8

SET 1030

9.		BOYER	STREET P	UMP STATI	ON	
DATE:	TIME:	PUMP #1	HOURS	PUMP #2	HOURS	TOTAL
7-24-17	1030	680.5	1-6	496,3	15	3.1
7-28-17	0840	681.8	1.3	447.4	1-1	2.4
7-31-17	1020	682.6	1.3	447.4 448.a 449.a	1.5 1.1 .8	2.4
8-4-17	1005	683.5	09	449.2		1.9
7-28-19 7-31-19 8-4-19 8-7-17	1005	684-4	-9	449.9	.7	1.6
		186.8	2.4	452.5	1.0 .7 2.6	5.0
8-2147	1030	689.2	2.4	454.6	2.1	4.5
8-25-17	1030	690.4	1.2	455.8	1-2	2.4
8-25-17	1015	60.5 681.9 683.5 683.5 683.5 693.4 693.7 693.6 703.7 703.7 705.3	.9 .9 .4 2.4 1.0 1.1 1.2	449.9 459.5 454.6 455.8	.9	1.6 5.0 4.5 2.4 1.9
9-1-17	1050	692.5	1.1	457.8	1.1	a.a
9-5-17	1045	693.7	1-2	457.8 458.9 459.7 460.5 461.5 461.5 465.3	1.1 1.1 .8 2.0 1.6 1.4	2.3 1.7
9-8-17	1050	694.6	.9	459.7	.9	1.7
9-16-17 9-15-17 9-21-17	1030	6955	-9	460.5	.8	1.7
9-15-17	1050	696-7	1-2	461.5	1.0	22
9-21-17	1020	698.6	1-2 1-9 1-9 1-7	4.63.1	1.6	3.5
9-29-17 10-2-17 10-617	0930	700.4	1.8	464,5	1.4	3.2
10-2-17	1045	701.1	7	465.3	28.	1.5
10-617	1015	702	1.7	41de 2 469.3	.9	1.8
10-1317	1025	703.7	1.7	467.8	1.6	3.3
10-2017	1030	705.3	1.6	469.3	1.5	3-1
10-27-17	1015	707	1-7	471	1-7	3.4
11-3-17	1,040	709:1	2./	472.8	1.8	3.9
10-10-17	1045	711.1	2,0	474.4	1,6	3.6
11-17-17	0945	707.1	2.0	476.0	1.6	3.6
11-21-17	1025	715.2	3-1	477.7	17	3.8
12-1-17	1040 1045 0945 1025 0930	11 100	3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	49.4	1.7	13.3 3.1 3.1 3.4 3.6 3.0 3.7 4.4 4.4
12-8-17	1055	719.7	2.5	481.0	1.6	401
12-8-17	1055	722.1	2.4	483.0	2	4.4
2-2247	1025	724	1.9	485-1	2.1	4.0
12-29-17	1090	725.8	1-8		120	
0 2111	1000	6000	1-0	487.2	2-1	3.9

1038

Set

Gen Run

1-8-19 1030 728 22 489.5 23 4.5 1-19-19 0955 730.8 28 492.0 2.5 5.3

	PUMP HOURS MAIN PUMPING STATION

JANG) AR4	2017
and the second		

	PUMP	RUN T	mES	
DATE:	#1 pomp	Run	PUMP	RUN TIME
JAN. 1	00109.6	8	01339.2	24 24 23.8
3 4 5	00109.6	D D	01411-1	24.1
8	00 109.6		01459.1 01483.1 01508.1	24.1
9	00109.6	0	01531.1	24
11 12 13	00/09.6	1.1	01503.9	23.8
14	00110.7	Ø	01649.9	22.7 24.8 24.8
16 17 18	00 110.7	0	01699.5	23.5
19 20	00112.3	.3	01770,9	24 23.2
21 22 23	0012.3		01844. 51867	26.6
84	00113,3	3 1	01891	24

JANUARY 2017

PUMP RUN TIMES

				Kalendaria da santa d		
	OATE:	PUMP	RUN Time	Pump .	RUN	
	74W. 26 27 28 29 30	00112.3 00112.3 00112.3 00113.4	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	01939 01963 01987 02011 02035	24 24 24 24	
	31	00113.4	8	02059	24	And the control of th
	DATE	Pump	RUW	Pump	RUN	
NOWOO SEE	FEB. 1 -2 -3 4	00115 001213 00122.8 00137.0	1.6 6.3 1.5 14.2	02083 02106.5 02130.4 02140.9	24. 83.5 23.9 10.5	
PANTEL V	MALFUNCTONS	00147,6 00166,2 00175,1	18.6	02170.5	29.6	
	9 10 11 12 13 14	00204.7 00806.4 00809.3 00211.3 00212.3		02208,6 022525 02276.5 023245 023245	12.2 33.9 34 24 24 24	

FEBRUARY 2017 POMPRUN TIMES

		pum	b KUN	TIME	>
	DATE	PUMP	BUN	#2 Pump	RON
	FEB. 15	00013.3	8	08372.5	24
	16	00233	8	02396.5	24
	17	20213,9	0.6	02420,4	23 9
	18	00214.1	0.2	02141.4	24
SWICH		6003Q.1	18	02478	24
	20	00256.1	24	02472.7	4.7
	al al	002788	23,7	60470.7	0
	22	00303.8	24	02472.7	8
	23	00327.5	23.7	02472.7	B
7	24	00351.4	03.9	02473.1	4
	a5'	00351.8	.4	02497.1	24
	26	00355.8	4	01580.7	23.6
7	27	00379.8	23	09530.7	10
DEGNT	28	00400.5	23.7	02530.7	8
*		-			
87					
		#1	RUN	Y-Q.	RUN
	00/6-	Pump	DIME	POMP	DIE
DECOUR	MARCH !	004365	24	095348	
	2	004506	DA.1	035348	8
	3	00474.3	23.1	62534.8	
	. 4	00498.1	23.8	025268	Ø
	5	0052320	24.9	07535.5	9
	6	00546.5	22.5	0.85380	9.7
			-		

MARCH 2017 PUMP RUN TOMES

		,			
et	DATES	PUMP	RUN Tame	Pump	RUN
DECONT	marcu 7 8	570.5	24	2538,4 2552	13.6
	9	006/4.3	23.9	2552	B
	10	00638.2	23.9	2552	8
		00661.3	23.1	2550	8
	12 13	00685	23.7 24	2552 2552	X
	19	0/7133	84	2552	9
	15	00757	24	2552	8
*	16	00981.8	24	2552	Ø
	17	00805.3	24.3	8552	Ø
	18	00829.2	239	02560	8
	20	06877.1	24	02570	10
	al	16900	23.9	02572	2
		009 95	34	02577.3	5,3
9 EDAT		009 49	24	02579	1.7
DECONT	1	00973	24	02501	2 10
		01001	- 24	02603	1
	37	01045	24	08,604.9	14
		01069	24	03604.4	B
**	A) 30	01093	24	02604.4	2
		01147	124	02604,4	2
	ا قست			Lamon Inst	

APRIL 2017 PUMP RUN TIMES

	SAPO		pump	RUN	TEQ PUMP	RUN
rue.	APRIL L		01165.0	34	02614.9	10.5
	9		01189.0	24	02621.4	6.5 3
	2		12371	23.9	2628, F 08629.7	4 1.3
n a)	56849	239	02630-1	4
#7 ros	ANK S		01309.9	24	02649.7	19.6 24
	0		01356.9	24	02697.7	24
			01380.8	23.9	02706.1	8.4
		2	01428.8	24	02719.6	4
		3	01450.8	22	02722.6	2
		56	01496.8	24	02726.6	5
		1	01544.8	24	02735.8	4.2
`		18	01560.8	24	02736.4	9
		30	01616-7	24	02736.4	0
		K K	- CONTROL	24.3	027420	5.6
		33 34	11	24	02752	5
		35	11		02752.3	

POMP RUN TEMES

-					
	13790	POMP	1000 TOME	t a PUMP	ROD
	APPALL 26 27 28 29 30	017 60.7 01784.8 01808.5 01832.5 01856.5	24 24.1 23.7 24 24	02752.3 02752.3 02752.3 027 5 8.3 02764.3	8066
	DATEZ	#1 PUMP	RW.	#2 POMP	RUN
Clean - Chi	3	01880.6 01904.4 01928.3	23.8	02766.3	1.1
DECENT	5	01975.9	23.4	02768.9 02769.6 02773.6 02775.7	2.1
TRANSFERI TRANSFERI TRANSFERI	8 7 7 7 7 7 8 10 8	08047.8 08071.9 08095.8 08119.6	23.9	02775.7 02775.7 02775.7 02775.7	8
DECANT DECANT	13 14 15	0213.6	24 24 24	02778 02780 02780.3 02780.3 02783.4	19 23 53.1

0 0	C and an installation of	. /
DOWD	R.UN	PEMES
1.0111	1-0010	1011125

		HOW L'OV	Demeg	5	
	DONE.	#L Pomp	RUN	#2 PUMP	RUN TIME
ORATA	MAY 17 produce 18	02363.5 2287. 4 2311. 1 02358 02382 02406 02430 02430 02478.1	23.9 23.9 23.9 23.9 23.9 23.9 23.9 23.9	02783.4 2783.4 2783.4 2784.3 02784.3 02784.3 02784.3 02784.3 2784.3 2784.3 2784.3 2784.3 2784.3	300000000000000000000000000000000000000
CLZ - TANK	DATE: DATE:	DUMP 2621.60 2645.50 0269.5	RUN 13 . 8 23 . 9 24 23.9 23	2785.9 2785.9 2786.5 2786.5 2786.5 2786.5 2786.5	RUN HIME 1.6

PUMP RUN TIMES

6		I KUN I		
DAYE:	POMP	RUN	Pomp	RUN
JUNE 7	02743.5	23.2	02786.5	B
8	00.787.à	23.7	09786.5	à
9	02910.7	23.5	02786.5	0
10	2832.3	21.6	2786.5	0
	2.859.6	27.3	2786.5	0
12	4288L.7	22.1	08786.5	W
13	02905.1	23.4	02789.6	3.1
14	02929.1	24	02789.6	B
15	02952.7	29.6	62790-1	0.5
16	02976,1	23.4	02790.L	Ø
17	03999-6	23.5	02790-1	18
18	03023.2	23.6	02790.1	Ø
19	03047.3	25.1	02790.5	04
20	03070.4	23.1	02790.3	1.8
21	03099.4	24	027923	18
92	03118.1	23.7	02.792.3	2
23	03142-1	24	02793.8	1.5
24	03166.1	24	02800.3	6.5
25	03/90.1	24	02803.4	3.1
26	03214	23.9	02903.5	1
9.7	032.30	24	028035	D
28	03261.9	23.9	02805.3	1.00
29	03286	24.1	02805.3	D
30		ta4.1	02806.2	9
OH-CAMPA CONTRACTOR OF THE CON				

JECANII

St 11 ()	MAN
2014	2017

POMP	RUN	VIMES
0.15	4.0	T Oak

			POWL	KOW) 12	JUNES .
	DAYE:	#L POMP	RUN	#2 Pump	R/UN JSME
	JULY 1	3334.7	24.6	2806.2	0
	. 2	3258.8	24.1	2806.2	0
	3	3381.1	22,3	2807. 2	1.0
	4	3406.3	25.2	2867. Q	0
	5	3429.8	23.5	2807.4	*2
	6	03453.5	23.7	02807.4	8
8-1/2 mil	7	03477.3	23.8	03811.3	3.9
	9	03 501.5	24.2	02913.9	2.6
		0325.5	24	02014.9	1.0
	10	03549.5	24	08814.9	8
	Commence of the second district of the second	03573.5	24	08014.9	A
6	12	03597-5	24	028/4.9	بهر
	13	03621.5	24	02814.9	Ø
	14-	03645.5	24	02814.9	Ø
į	15	036H.1	23.6	62814.9	0
	16	03697.6	28.5	02814.9	ø
		03717.5	19.9	02814,9	,0
į	18	037415	24	028/63	1.4
	19	03765.5	24	09817-3	1
	a0	03789.5	24	02817.3	8
DECONT		03813.5	24	08819.4	2.1
	32	03837.3	23.8	02020	.6
	33	038613	24	02822.5	g.5
	24	03885.3		02824,7	3.2
	25	03909.3	24	02835.3	10.6
		Service and the service and th			

5019 2017

PUM	P	RUN	TOMES
17	-	* 12	a .

	P		1	
DATE:	POMP	PON JAMES	POMP	ROD
2017 36	O2933.3	24	02836.3	
27	03757.4	24.1	03836.8	.5
28	03981.3	23.9	02838.3	1.5
20	09005.3	24	000409	10.6
30	04029.3	24	02852.9	4
31	04053.4	24.1	02865.9	3
			Ŧ	
		/ 4. 6.	40	9 55
DATE:	Pomp	RW	Dump	RUM
A06. 1	04077.4	24	0.856.6	• 7
2	041013	239	02857.4	.8
3	04125.4	24.1	02057-8	.4
4	041495	24.1	02862.9	5.1
5	04173.5	24.0	02864.0	/ .1
6	84200.1	26.6	02866.2	2.2
7	09221.2	21.1	02870.8	4.6
8	04245.2	24	08878.2	7.4
9	04269.2	24	0.2881.9	3.7
10	04293.2	9.4	02882.5	.6
11	04317.5	24.3	0283.8	1:3
12	64341.1	23.le	023940	10.2
13	04366.4	25.3	62897.0	3.0
14	04389.2	22.8	02908.6	11.6
15	6.61440	24.0	62818.3	9,7

POMP RUN TEMES

		W s :	1 0:5		-
	DATE	POMP	RUN	E POMP	TIMES
6	AV6. 16	04437.2	124	08923	4.7
	17 18	04461.2 644851 2	24	03924.9	
	19	04508.7		02926.1	0.8
	25	04532.7		02928.5	2.4
	21	04557.1	24-4	02929-5	1.0
		04581-1	24	0 29 30, 6	
-		04605.2	24.1	04934.6	1.5
		04653.2	24	02936.5	4
	26	04677.3	24.1	02937.2	1
	9.7	04701.3	24	02940.5	3.3
NATURAL PROPERTY OF THE PERSON	28	04725.2	23.9	02944.2	3.7
	29 30	04749.2	24	02945	.,8
		04797.2	24.2	62948.1	2.5
				40	0
	DAIE:	pump	RON	#Q Domp	RUN
	SEAL	04821.1	23.9	02948.(0
	2	04845.]	24	02950.1	2
	3	04869.1	24 - 00 x	02959.2	4.1
E	MIY 5	04917	20.4	02958.9	3.5
e e e			W130		200

SEPTEMBER 2017

PUMP RUN TIMES

DOTOBER 2017 DOMP ROW TEMES

DATE:	Pump	RUN	#2 Pump	RUN
OCT. 234567891011213141516171819	05897.8 05921.5 05945.6 05969.2	29 23 24 23 23 23 23 23 23 23 23 23 23 23 23 23		
21 2 2	06017.1	83.7 23.5 28.5 24	02997.1	Ø Ø Ø

2017 OCTOBER PUMP KUN

TEMES

CLEAN-OUT
DEED WELL

house KOW Jervies					
Dates	#1 Pomp	RUN	PUMP	FINE	
OCT. 26 27 28 29 30 31	06135,6 06150,7 06182.6 06206.7 06230.5 04254.5	33.7 23.9 24.1 23.8 24.0	03001.2 03001.4 03001.8 03002.3 03019 03424.7	1.5 . A . 4 . 5 . 7	
ONTE: NOV. 1.23.4 5 67.88 9 10 11 12 12 12 12 12 12 12 12 12 12 12 12	06567.5	RUN 23 4 23 8 23 8 23 8 23 8 23 8 23 8 23 8	#2 PUMP 03026.1 03036.9 03036.3 03036.3 03036.3 03036.3 03040.9 03040.9 03040.9 03040.9 03040.9 03040.9 03040.7 03040.7 03040.7	2.3	

NOVEMBER 2017 RUMP RUN TIMES

		r o				
	DATES	3t L	135ME	POMP	FUN TIME	
I and the second	NOV. 15	06615.3	23.9	03048	.3	
	16	06639.4	24.1	02048.2	.2	
	y y	0663.4	24	03048.7	.5	
	18	Ou736,3	27.9	03052.9	4.2"	
	19	06760.3	24	03052.9	100	
	90	067363	2222	02052.9	20	
	21	06159:4	23.1	03053.9	\$	
	22	06783,4	24.0	03052.9	Ø	
	29	06807.4	24	03053.6	2.7	
	25	06831	23.6	03056.4		
	26	0687A.2	24.2	03056.4	1	
	27	06900.5	23,3	03056.4	8	
	28	06926,2		03056.4	Ø	
	99	06949.5	475	0305te.4	Ø	-
	20	011973.7	24.2	03056.4	8	
				٠.		-
		DECEM				=
	DATE:	#L DUMP	RIME	Pump	RUN	
						=
	DEC- 1	06997.7		03056.4	0	and the same of the same
	334	07045,2	4000	03057	4 4	NAME AND POST OF THE PERSON.
	3	070689		03057.		Manager Comment of the Comment of th
	ĝ	10100-	3.0° (Annual contract Contract

DECEMBER 2017

PUMP RUN TIMES

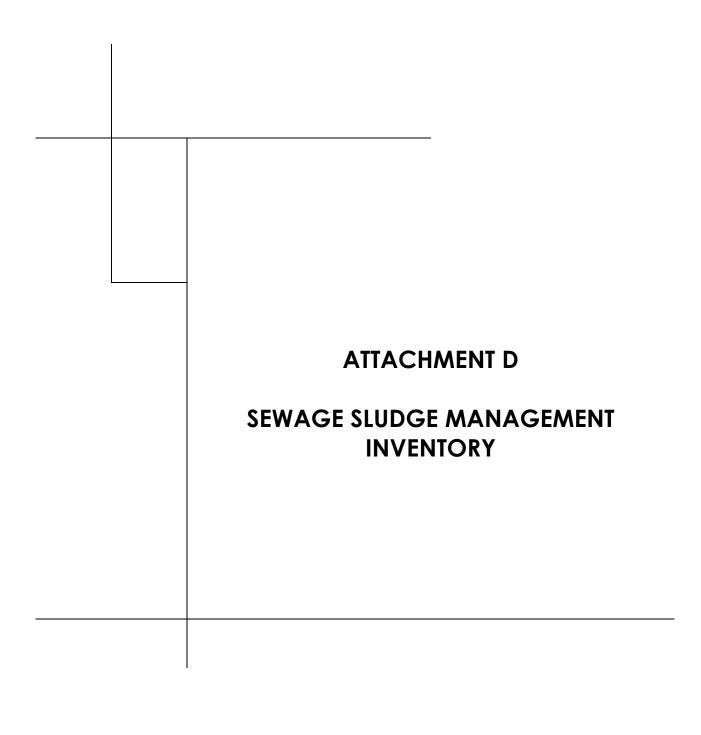
ONTE: PUMP Fame PUMP SOME DEC. 5 107092.7 23.8 03057.9 & 07116.6 29.9 03061.2 & 07164.9 24.9 03061.2 & 07164.9 24.9 03061.2 & 07612.3 & 03061.2 & 03061.2 & 07612.3 & 03061.2			h knu		
6 07116.6 29.9 03061.2 3.3 071.40 24.9 03061.2 0 03061.2 0 03061.2 0 03061.2 0 03061.2 0 03061.2 0 03061.2 0 03061.2 0 03061.2 0 03061.2 0 03060.1 03660.1 03.3 03072.8 0 03072.5 0 03072.	STAO	Domp		12	Some
30 07666. \ 25.8 103089.5 \	DEC. 567 891011111111111111111111111111111111111	07092.7 0716.6 071640.9	23.8 29.9 4 29.1 3 4 29.1 23.8 29.1 29.1 29.1 29.1 29.1 29.1 29.1 29.1	03057.9 03061.2 03061.2 03061.2 03061.2 03061.2 03061.3 03072.8 03072.8 03072.8 03072.8 03072.8 03072.8 03074.5 03074.5 03074.5 03074.5 03074.5 03074.5 03074.5 03074.5 03074.5 03074.5 03074.5 03074.5 03074.5	3.3 0 0 0 1 2 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

PUMP RUN JEMES

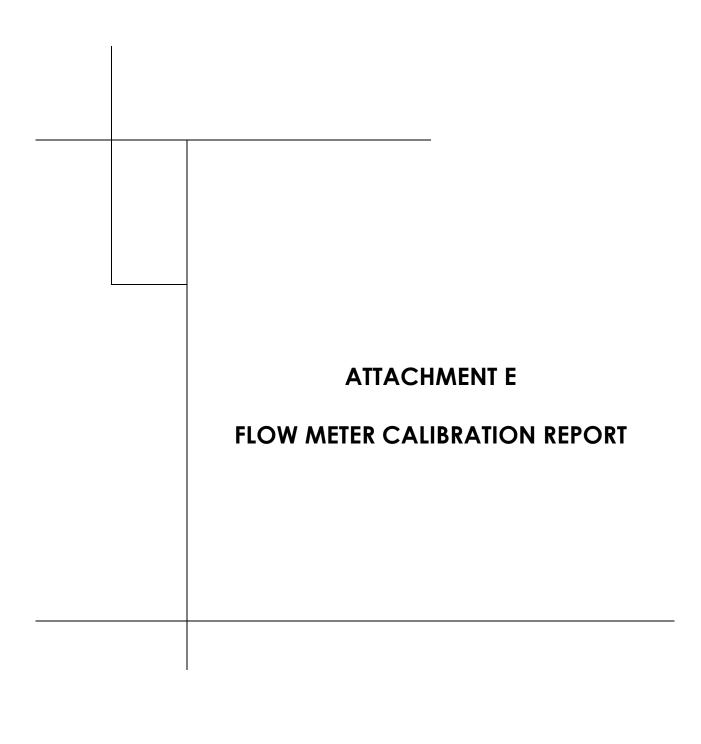
DATE	DOMP DOMP	RW	#2 pomp	RUN
DEC. 30	07690	23.9	03089,5	2.2

.

-



SLUDGE	GENERATION CALCULATION			
Facility Name: Halifax Wastewater Treatmer	nt Plant			
Permit Number: PA0024457				
Date of Calculation: 2/22/2018				
Requir	red Information For Calculation			
Average Daily Flow (mgd): 0.1071	Digester Capacity (gal): 42000		
Influent BOD (mg/l): 200	%Solids of Outgoing Slud	dge: 1.9		
Effluent BOD (mg/l): 8.4	Monitoring Period (da	ays): 365		
Wasi Place an "X" in the box beside the corresponding treat	tewater Treatment Processes ment process. Select a maximum of Primary Clari	ification and one other treatment process.		
Primary Clarification	Contact Stabilization	RBC RBC		
Conventional Activated Sludge	SBR 🔽	ABF 🔲		
Extended Aeration X	Trickling Filter	Small Plant with low SOR (<500 gpd/sq ft)		
	Operational Information			
BOD Removed (lbs/day): 171	TSS Removed (lbs/d	lay): 111		
Place an "X" in t	Digester Information Type of Digester the box beside the corresponding treatment proce	ss.		
Aerobic Digestion X	Anaerobic Digestion	None		
Sludge Feed Rate to Digeste Digester Hydraulic Detention Tim Estimated Total Solids Reduc	ne (days): 24			
Sludge Generation				
dry lbs/day 72	wet lbs/			
dry tons/monitoring period 13	wet tons/monitoring pe			
gal/day 456	gal/monitoring pe	riod 166552		
Amount of Sludge F wet tons/monitori		the Facility		
dry tons/monitori	OR ng period 6.857 one of the above values. The remaining value sho	ould be "0".		
Is the amount reported by the generate	or within 15% of the calculated val	lue? NO		
	NO explanat	tion: LESS THAN 15% RANGE		
What type of information was used to calcula	ate the above information: 2017 [DMR Supplemental Reports		
	Dates used: 1.1.20	17 TO 12.31.2017		
Name of person p	performing the calculation: Jeffrey	/ J. Harman Jr., E.I.T.		



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

*** SERVICE REPORT ***

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

SERVICE DATE: DECEMBER 20, 2017

METER#: C8201 AA

LOCATION: WASTEWATER - EFFLUENT SERIAL #: 12286/9404-31238-B02

MANUFACTURER: BADGER/CHESSELL

RECORDER: 392 TRANSMITTER: 2210

PRIMARY: WEIR V-NOTCH 90°
MAXIMUM CAPACITY: 347.2 GPM
SERVICE CONTRACT: ANNUAL

*** WORK PERFORMED ***

TRANSMITTER CALIBRATION

LEVEL MEASUREMENTS AND FLOW CHECKS

ERROR: 0.29% TOLERANCE: ±1%

RECORDER CALIBRATION

CHECKED AT: 0, 50, 100% ERROR: 0,0,0% TOLERANCE: ±1%

TOTALIZER CALIBRATION

CHECKED AT: 0, 50, 100% ERROR: 0,0,0% TOLERANCE: ±1%

*** TECHNICIAN COMMENTS ***

PERFORMED ANNUAL CALIBRATION
CLEANED PRIMARY
ADJUSTED METER
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): JOE LATRELL





March 27, 2018

Clean Water Program
PA Department of Environmental Protection
Southcentral Regional Office
909 Elmerton Avenue
Harrisburg, Pennsylvania 17110-8200

Re: NPDES Permit No. PA0024457

Corrective Action Plan Update: Semi-Annual Report Main Pumping Station and Wastewater Treatment Plant

Halifax Area Water and Sewer Authority

Dear Clean Water Program:

On behalf of the Halifax Area Water and Sewer Authority (HAWASA), Herbert, Rowland & Grubic, Inc. (HRG) hereby submits this Corrective Action Plan (CAP) Update Report in accordance with the Semi-Annual Reporting requirements outlined in the June 20, 2017 CAP submitted by HAWASA and approved by the Department via letter dated August 8, 2017. This CAP Update Report will be included as Attachment F to the HAWASA Chapter 94 Wasteload Management Report for Calendar Year 2017.

The Main Pumping Station located at the HAWASA Wastewater Treatment Plant (WWTP) is considered to be hydraulically overloaded in accordance with 25 Pa. Code § 94.12. As required by 25 Pa. Code § 94.21, HAWASA submitted the approved CAP to reduce the overload condition at the Main Pumping Station. The approved CAP includes the modification to the Main Pumping Station as part of a WWTP upgrade project to be completed by HAWASA.

This CAP Update Report provides the status of the Tasks identified in the Implementation Schedule contained in the HAWASA CAP. This Report also summarizes any new connections to the portion of the HAWASA system which is tributary to the overloaded sewerage facilities.

Consent Order and Agreement

On January 10, 2018, a draft Consent Order and Agreement (COA) was issued to HAWASA by the Pennsylvania Department of Environmental Protection (PA DEP). The COA contains a schedule for Corrective Action (Section 3), a proposed Civil Penalty Settlement (Section 4) and Stipulated Civil Penalties (Section 5) in the event that HAWASA fails to comply in a timely manner with any term or provisions of the COA.

In response to the draft COA, HAWASA issued formal written comments to PA DEP via letter dated January 31, 2018. The January 31, 2018 HAWASA letter requested a time extension for the Completion/Submission Date contained in the CAP for the WWTP Alternatives Review, Design Engineer's Report and Uniform Environmental Report until December 31, 2018. The requested time extension will allow for the completion of an Act 537 Sewage Facilities Plan by Halifax Township which will be used by HAWASA to complete its evaluation of WWTP upgrade alternatives. The January 31, 2018 HAWASA response also clarified the current Implementation Schedule contained in the approved CAP and requested a reduction in the Civil Penalty Settlement and Stipulated Civil Penalties.

Clean Water Program
PA Department of Environmental Protection
March 27, 2018
Page 2

A copy of the draft COA and the HAWASA response dated January 31, 2018 are attached hereto.

On March 19, 2018, representatives of HAWASA, PA DEP and HRG met to discuss the HAWASA response to the COA. The March 19, 2018 meeting was also attended by a representative of the Halifax Township Board of Supervisors who provided additional information regarding the anticipated schedule for completion of the Township's Act 537 Sewage Facilities Plan. As a result of the March 19, 2018 meeting, a revised COA is anticipated to be prepared by PA DEP which will then be considered for execution by HAWASA at a regular monthly meeting.

Implementation Schedule - Update

The Implementation Schedule below is included in the HAWASA CAP. For the purpose of this Report, a new "Status/Update" column has been inserted to demonstrate HAWASA's compliance with the Implementation Schedule.

IMPLEMENTATION SCHEDULE FO TASK DESCRIPTION	COMPLETION / SUBMISSION DATE	STATUS/ UPDATE
Revised CAP Submission to PA DEP	By June 23, 2017	 Submitted by HAWASA on June 22, 2017 Approved by PA DEP on August 8, 2017 [Task Completed]
Complete WWTP Upgrade alternatives review and Design Engineer's Report with the following key components: Review previous HAWASA evaluation of WWTP improvement alternatives Prepare existing and future flow and loading projections including flow metering study as required Request and receive preliminary effluent discharge limits for WWTP Upgrade from PA DEP WWTP Improvements alternatives review Identification and selection of recommended improvements User rates analysis for recommended improvements Preparation of Design Engineer's Report Preparation of Preliminary Engineering & Uniform Environmental Reports	April 17, 2018	 HRG has reviewed the previous HAWASA evaluation of WWTP improvement alternatives The HAWASA WWTP operator installed three portable (3) flow meters in the HAWASA collection system to monitor the flow from each main portion of the system to the WWTP The HAWASA WWTP operator is continuously collecting water quality data to assist in the basis of design for WWTP improvements; Additional influent sample analysis was performed from September to December 2017 to supplement current monitoring HRG requested preliminary effluent discharge limits for an increased WWTP discharge on January 17, 2018; Preliminary effluent

IMPLEMENTATION SCHEDULE F		GRADE
TASK DESCRIPTION	COMPLETION / SUBMISSION DATE	STATUS UPDATE
TASK DESCRIPTION	SUBMISSION DATE	limits were provided by PA DEP on March 8, 2018 HRG has prepared a draft Design Engineer's for the WWTP upgrade project which evaluated alternatives for an increased WWTP discharge; Halifax Township flow contributions to be confirmed during the Township's Act 537 Plan preparation HRG has begun preparing the Uniform Environmental Report; PNDI & PHMC notifications were completed
Cubmit administrativals and task in 11 and 14 II if	1 20 2010	in January 2018
Submit administratively and technically complete Uniform Environmental Report for WWTP Upgrade to PA DEP	April 20, 2018 [January 31, 2018 COA response letter requested extension until December 31,	
	2018]	
Begin Design Phase	Within 45 Days of PA DEP approval of Uniform Environmental Report	
Submission of administratively and technically complete Water	Within 180 Days of	
Quality Management Part II Permit Application to PA DEP	PA DEP approval of Uniform	
Advertise for Construction Bids	Environmental Report Within 90 Days of PA DEP issuance of Water Quality	
Construction Contract Award	Management Permit Within 60 Days of Receipt of Bids	
	[January 31, 2018 COA response letter indicated	
	PENNVEST funding will be pursued; additional time for this item may be	
Complete Construction	required for PENNVEST award Within 450 Days from	
	Construction Contract Award	

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	COMPLETION /	STATUS/
TASK DESCRIPTION	SUBMISSION DATE	UPDATE
12-Month Compliance Monitoring Period	12-Month Period from	
	Construction	
	Completion	

Restriction on Connections Tributary to Overloaded Sewerage Facilities

Per the terms of the approved CAP, HAWASA will limit new connections within the area tributary to the Main Pump Station to a total of twenty-five (25) new EDUs (not otherwise meeting the definitions of 25 Pa Code §§ 94.55, 94.56 and 94.57) during the term of the CAP until the hydraulic overload condition is eliminated. There have not been any new connections within the CAP area as of the date of this Update Report.

There is no restriction on connections in the southern portion of the HAWASA collection system located in Halifax Township as this area is not tributary to the Main Pumping Station. New connections made to this portion of the system are further detailed in the HAWASA Chapter 94 Report for Calendar Year 2017.

Semi-Annual Reporting

HAWASA will continue to submit semi-annual CAP Update Reports to PA DEP. Unless otherwise modified by the COA, Update Reports will be submitted to PA DEP prior to March 31st of each year, concurrent with the HAWASA submission of its Annual Chapter 94 Report, and again prior to September 30th of each year.

If you have any questions or comments regarding the CAP Update Report, please do not hesitate to contact me at 717-564-1121. Thank you.

Very truly yours,

Herbert, Rowland and Grubic, Inc.

Justin J. Mehdinsky, P.E.

Water & Wastewater Project Manager

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cc: HAWASA Board

Jeffrey Grosser, Operator

Christian S. Daghir, Esq., Etzweiler and Associates, Solicitor

HRG File