

Herbert, Rowland & Grubic, Inc. 369 East Park Drive Harrisburg, PA 17111 717.564.1121 www.hrg-inc.com

March 31, 2023

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

Re: Halifax Area Water and Sewer Authority

Chapter 94 Municipal Wasteload Management Report

Calendar Year 2022

Dear Clean Water Program:

On behalf of the Halifax Area Water and Sewer Authority (HAWASA), we are submitting the HAWASA Chapter 94 Report for Calendar Year 2022.

Should you have any questions or comments regarding the Chapter 94 Report or any of the included attachments for HAWASA, please do not hesitate to contact me at (717) 564-1121. Thank you.

Sincerely,

Herbert, Rowland & Grubic, Inc.

Brenden Miller

Brenden Miller, EIT

Staff Professional | Water & Wastewater

BM/LJ/rb 001650.0425

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Enclosures

c: HAWASA Board

Mr. Jeffrey Grosser, HAWSA

HRG File (w/Encl.)



369 East Park Drive Harrisburg, PA 17111 717.564.1121 www.hrg-inc.com

CHAPTER 94 WASTELOAD MANAGEMENT REPORT FOR CALENDAR YEAR 2022

Submitted to: Pennsylvania DEP Southcentral Regional Office

ATTN: Clean Water Program

909 Elmerton Avenue, Harrisburg, PA 17110

On Behalf of: Halifax Area Water and Sewer Authority,

Dauphin County, PA

[001650-0425]

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COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

CHAPTER 94 MUNICIPAL WASTELOAD MANAGEMENT ANNUAL REPORT

For Calendar Year: 2022

	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	RMATION					
Pe	rmittee Name:	Halifax Area Water and Sewer Authority	Permit No.:	PA0024457				
Ма	iling Address:	PO Box 443	Effective Date:	April 1, 2023				
City, State, Zip: Halifax, PA 17032		Expiration Date:	March 31, 2028					
Со	ntact Person:	Jeffrey Grosser	Renewal Due Date:	March 31, 2028 - 180 days				
Titl	e:	Operator	Municipality:	Halifax Borough, Halifax Twp				
Ph	one:	(717) 896-3886	County:	Dauphin				
Email: jgrosser@hawasaonline.com		Consultant Name:	Herbert, Rowland & Grubic, Inc.					
		CHAPTER 94 REPORT	COMPONENTS					
1.	5 years and project	t a line graph depicting the monthly avera ting the flows for the next 5 years. The gra QM 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.	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))
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 new connections to the Authority's collection system were made in 2022.
	The proposed extension of sanitary sewer along Peters Mountain Road will consist of low pressure sewer systems, gravity collectors, three (3) pump stations and associated force mains. This project will initially add approximately 300 EDUs (existing homes) to the WWTP with an ultimate buildout to 407 EDUs. The construction of the proposed sanitary sewer extension is expected to be completed within the current 5 year planning period. The expansion of the HAWASA wastewater treatment facility is anticipated to be completed in Spring 2023 (construction started in Summer 2022). The expansion will increase the current hydraulic and organic design capacities of the WWTP to accommodate the projected flows from the sewer extension. Construction of the extension has begun in February 2023. Lenker Estates is anticipated to be the first connection from the extension and accounts for approximately 50 EDUs in 2023. An additional 100 EDUs are assumed in 2023 with the remaining EDUs in the extension is expected to be completed in 2024.
	Another development, the Sycamore Ridge community, is expected to connect to the Authority's system in the 5-year planning period. The development will be constructed east of Pennsylvania Route 147. Sewer facilities will consist of a gravity sewer that will tie into the existing gravity system main and ultimately drain into the Main Pumping Station. The aforementioned WWTP expansion project also included upgrades to the previously hydraulically overloaded Main Pumping Station. The new Main PS that was constructed in Fall 2022 and greatly increased the capacity of the pump station. The Sycamore Ridge development will add 124 new EDUs to the WWTP. However, no planning progress has occurred in this project within the past two years because of a the PADEP CAP on the Main PS. It is anticipated that the PADEP CAP on any new connections to the Main PS will be lifted in 2023. It is assumed the Sycamore Ridge Community will be added

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))

Repairs to the Authority's collection system are conducted on an as-needed basis. There are two full-time operators of the sewer system, shared with the water system. The collection system maintenance program consists of daily checks of the Authority's pump stations and routine checks of 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. The maintenance teams conduct regular inspections of the gravity system, and jet clean the system where needed.

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 sanitary sewer overflows (SSOs) were observed in the Authority's system in the 2022 calendar year.

PA DEP had identified a hydraulic overload condition at the HAWASA WWTP Main Pumping Station and occurrences of permit violations at the WWTP itself. In response to these issues, HAWASA entered into a Consent Order and Agreement (COA) with PA DEP for the upgrade of the main pump station and WWTP.

In accordance with the schedule contained in the COA, HAWASA submitted a Wastewater Treatment Plant Alternatives Review and Design Engineers Report, prepared by Herbert, Rowland & Grubic, Inc. (HRG), to PA DEP. HRG had determined that the Authority's WWTP will require comprehensive upgrades to nearly all unit processes in order to eliminate the hydraulic overload condition at the Main Pumping station and the occurrence of permit violations at the WWTP. Improvements to the Main Pumping Station at the WWTP and the WWTP itself are in the process of being completed as part of the WWTP Upgrade project. The Water Quality Management Permit for construction of the WWTP Upgrade project was issued by PA DEP on March 12, 2020.

HAWSA is moving forward with the Wastewater Treatment Plant Upgrade Project, in Spring 2023 the contractor is concluding construction. The project included the construction of new headworks, two (2) new sequencing batch reactors (SBRs), construction of a new post-equalization tank, upgraded disinfection system, new chemical equipment and improvements to existing biological tanks and digester tanks. The project will increase the capacity of the existing WWTP to 0.28 MGD upon completion. In addition to treatment plant upgrades, the project also entailed upgrades to the hydraulically overloaded Main Pumping Station. The Main Pumping Station concluded construction and was placed into service on August 17, 2022.

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. – The Main PS was reconstructed in Fall							
	2022, and is therefore no longer hydraulically overload.This report demonstrates a projected 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. This report demonstrates a projected 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))							
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 fl calibrated annually. (25 Pa. Code § 94.13(b))	ow measuring, indicating and recording equipment has been					
☑ Flow calibration report attached (Attachment E)						
RESPONSIBLE OFFIC	IAL CERTIFICATION					
accordance with a system designed to assure that qualified submitted. Based on my inquiry of the person or persons wh for gathering the information, the information submitted is, to complete. I am aware that there are significant penalties for	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).					
Jeffrey Grosser, Lead Operator	Jally & mason					
Name of Responsible Official	Sighatura					
(717) 896-3886	3-21-23					
Telephone No.	Date					
PREPARER CE	RTIFICATION					
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).						
Justin Mendinsky, P.E.	Just J. Mendady					
Name of Preparer	Signature					
(717) 564-1121	03/10/2023					
Telephone No.	Date					

ATTACHMENT A: Hydraulic And Organic Loading Data And Line Graphs







PADEP Chapter 94 Sprea Sewage Treatment

Reporting Year:

2022

Facility Name:

Halifax Wastewater Treatment Plant

Permit No.:

24457

Persons/EDU:

3.5

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

0.28 NO 0.28

MGD Year: MGD

2022

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

636 NO 636

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

lbs BOD5/day Year:

2022 lbs BOD5/day

Monthi	v Average	Flows for	Past Five	Years (MGD)

	monthly Average Flows for Fact Five Tears (mess)					
Month	2018	2019	2020	2021	2022	
January	0.0726	0.1445	0.103	0.0952	0.0803	
February	0.1175	0.1352	0.1137	0.0918	0.1144	
March	0.1157	0.1429	0.1255	0.1298	0.126	
April	0.1258	0.1603	0.1398	0.1405	0.147	
May	0.1484	0.1933	0.1714	0.1344	0.1804	
June	0.1418	0.1586	0.1586	0.1382	0.1316	
July	0.167	0.1451	0.1561	0.221	0.1429	
August	0.174	0.1233	0.1523	0.1892	0.1037	
September	0.1599	0.111	0.127	0.2177	0.0826	
October	0.1299	0.1018	0.105	0.1417	0.085	
November	0.1583	0.0966	0.0933	0.1017	0.0798	
December	0.1457	0.0955	0.0947	0.0842	0.096	
Annual Avg	0.1381	0.134	0.1284	0.1405	0.1141	
Max 3-Mo Avg	0.167	0.1707	0.162	0.2093	0.153	
Max : Avg Ratio	1.21	1.27	1.26	1.49	1.34	
Existing EDUs	753.0	753.0	753.0	753.0	753.0	
Flow/EDU (GPD)	183.4	178.0	170.5	186.6	151.5	
Flow/Capita (GPD)	52.4	50.8	48.7	53.3	43.3	
Exist. Overload?	NO	NO	NO	NO	NO	

Month
January
February
March
April
May
June
July
August
September
October
November
December

Month	2018	2019	2020	2021	2022
January	151	102	125	126	120
February	127	114	181	147	148
March	114	108	86	155	98
April	53	133	89	176	115
May	42	71	73	193	138
June	39	103	156	230	63
July	66	177	232	149	123
August	101	146	332	214	207
September	165	169	423	132	180
October	149	131	157	252	177
November	137	157	175	115	113
December	139	136	148	149	169
Annual Avg	107	129	181	170	138
Max Mo Avg	165	177	423	252	207
Max : Avg Ratio	1.54	1.37	2.33	1.48	1.50
Existing EDUs	753	753	753	753	753
Load/EDU	0.142	0.171	0.241	0.226	0.183
Load/Capita	0.041	0.049	0.069	0.064	0.052
Exist. Overload?	NO	NO	NO	NO	NO

Projected Flows for Next Five Years (MGD)

_	2023	2024	2025	2026	2027
New EDUs	150.0	150.0	124.0	2.0	2.0
New EDU Flow	0.0261	0.0261	0.0216	0.0003	0.0003
Proj. Annual Avg	0.1571	0.1832	0.2048	0.2051	0.2054
Proj. Max 3-Mo Avg	0.2066	0.2409	0.2693	0.2697	0.2701
Proj. Overload?	NO	NO	NO	NO	NO

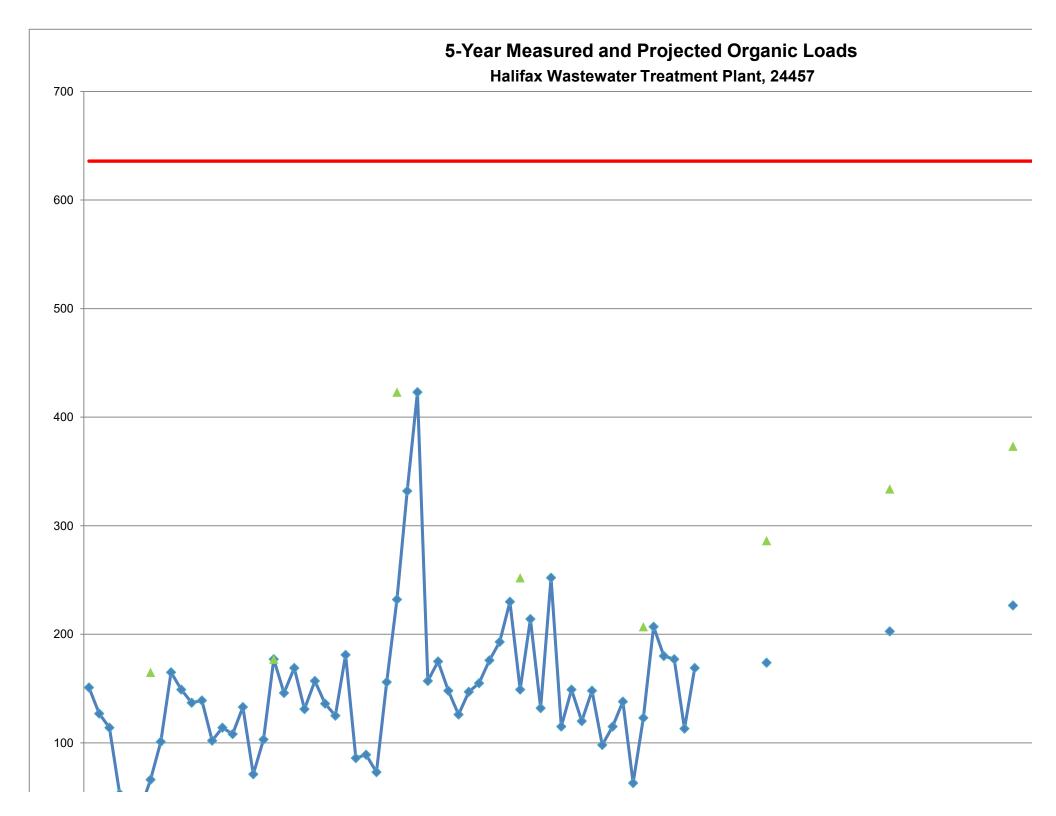
Projected	DODE	I anda	for Nove	Eivo	Voore	(lbc/day)

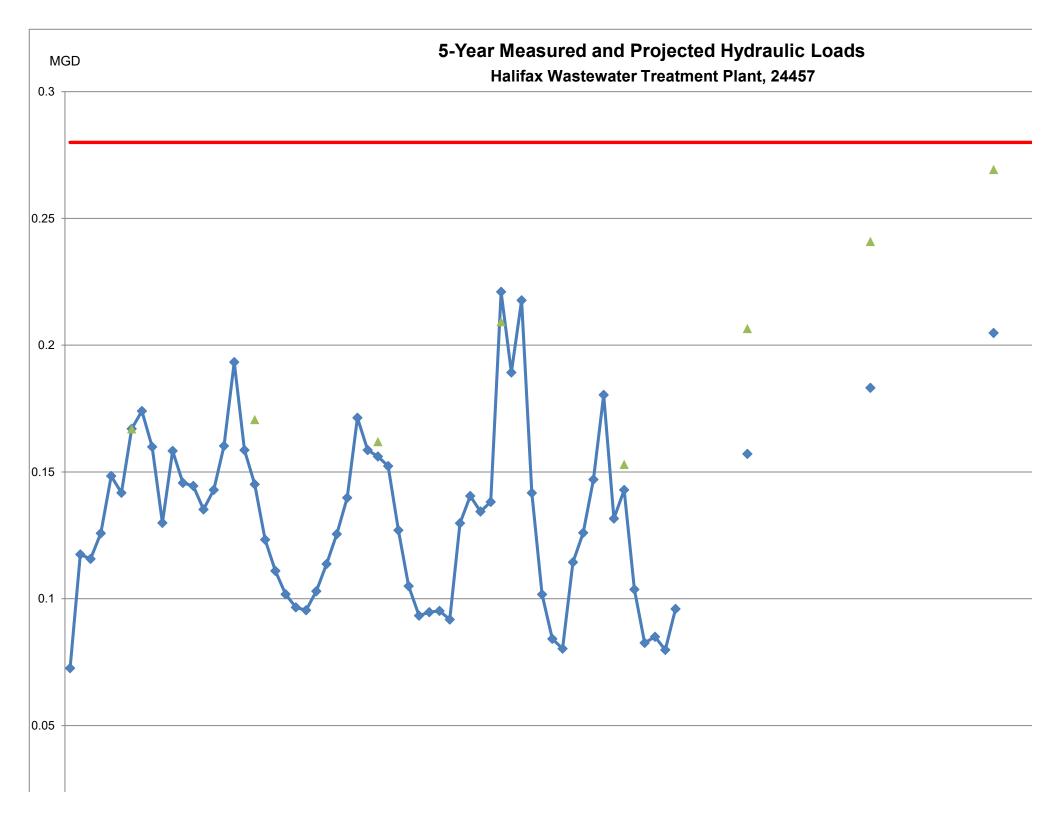
	Frojected BODS Coads for Next Five Tears (Ibs/day)					
	2023	2024	2025	2026	2027	
New EDUs	150	150	124	2	2	
New EDU Load	28.871	28.871	23.867	0.385	0.385	
Proj. Annual Avg	174	203	227	227	227	
Proj. Max Avg	286	334	373	374	374	
Proj. Overload?	NO	NO	NO	NO	NO	

Show Precipitation Data on Hydraulic Graph?

Total Monthly Precipitation for Past Five Years (Inches)

Month	2018	2019	2020	2021	2022
January	2.56	2.46	2.77	2.9	2.73
February	5.56	2.83	2.53	2.9	2.92
March	3.01	2.22	3.46	5.3	1.66
April	4.78	4.31	3.5	3.9	4.46
May	5.37	5.05	4.3	5.25	6.67
June	4.12	2.47	2.86	2.4	4.31
July	13.0	5.44	0.92	10.0	2.81
August	8.29	3.94	3.96	11.5	1.66
September	7.82	2.29	1.71	14.55	3.96
October	2.34	5.0	3.69	3.9	3.2
November	8.38	2.11	2.12	2.6	2.71
December	5.21	3.81	5.11	1.25	4.02

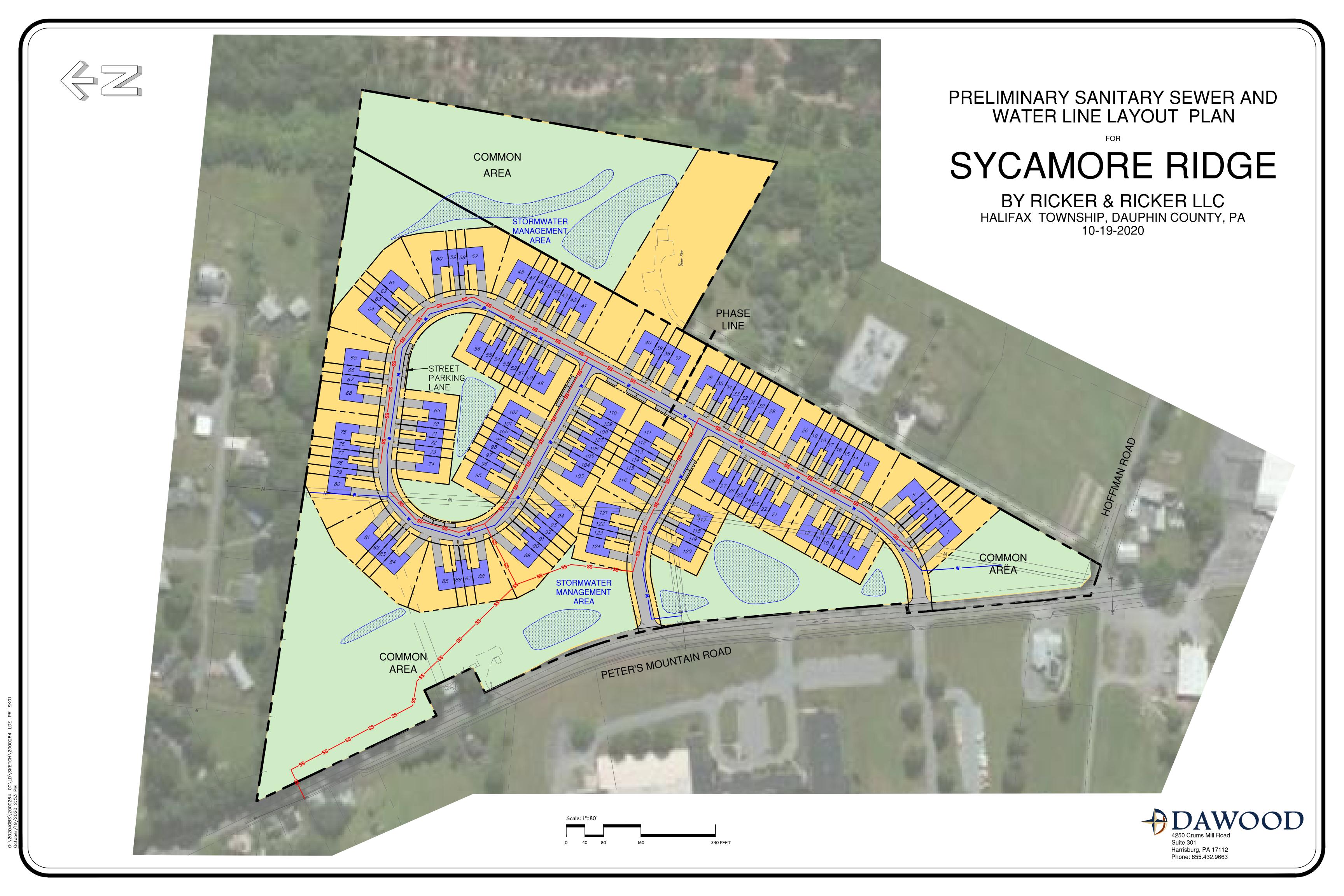




ATTACHMENT B: <u>General Plan/Sewer Extensions</u>









ATTACHMENT C: Condition Of Pump Stations





CONDITION OF THE PUMP STATIONS

HAWASA 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)

Average flow: 4100 gpd (estimated from pump hours and design point)

Maximum: 50 gpm (Peak Hourly Flow estimated

The Boyer Street Pumping Station was upgraded to submersible pumps at the end of 2014 and began operation in 2015. Attached runtime records indicate total runtime for the station averages to approximately 9.52 hours per week, usually divided equally between the pumps.

There are no known future connections tributary to the Boyer Street Pumping Station in the next 2-year planning period. Therefore, a hydraulic overload condition is not expected to occur at the pump station in the next 2 years. Pump run hours for the Boyer Street Pumping Station are attached.

ORIGINAL MAIN PUMPING STATION (DECOMISIONED JUNE 2022)

The Main Pumping Station is located at the HAWASA WWTP, conveying all flow from the Borough and the northern Halifax Township service area (including flows from Boyer Street Pumping Station). There were two (2) suction lift pumps with separate 4-inch suction lines, discharging into a single 4-inch force main. The pumps were 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. This Pump Station was decommissioned and upgraded in Summer 2022.

The recorded pump hours from January 1, 2022 to May 12, 2022, indicate an overloaded pump station condition with Pump 2 (or lag pump) typically operating between 4-20 hours each day. In accordance with the Consent Order and Agreement (COA) developed for the WWTP, improvements to the Main Pumping Station were addressed as part of the Wastewater Treatment Plant Upgrades Project. On May 12, 2022 the Main Pumping Station was removed from normal duty. Bypass pumping was established to accommodate the sanitary flow during construction of the Upgrades Project. The existing pumps were used intermittently to allow for bypass pumps to be moved during various stages of the project.

Design Capacity: 175 gpm (1 pump basis)

Daily run time: 29.5 hours (both pumps combined)

UPGRADED MAIN PUMPING STATION (PLACED INTO OPERATION AUGUST 2022)

The Main Pumping Station is now composed of two (2) suction lift pumps within the pump station building at the Halifax WWTP. One (1) pump is dedicated as the duty pump, while the second

pump is dedicated as a standby pump. The pumps have a design point of 300gpm. The upgraded pump station has an effective wet well volume of approximately 788 gallons, based on the design pump rate of 300 gpm and a minimum allowable cycle time of 10 minutes per pump. A 6-inch diameter ductile iron force main conveys all flow from the Main Pumping Station approximately 175 feet to the distribution box upstream of the proposed WWTP headworks.

Design Capacity: 300 gpm (1 pump basis)

Daily run time: 4.72 hours (both pumps combined)

On August 17th, the Upgraded Main Pump Station was brought online. The new pump station has a design capacity of 300gpm (one pump) with a larger 6in forcemain. The attached pump run hours from August 17th, 2022 to the end of 2022 show a much lower average daily run time of 4.72 hours (both pumps combined), as opposed to the average pump run time of 29.5 hours of the previously overloaded main pump station.

FUTURE SANITARY EXTENSION

As previously indicated, a sanitary sewer extension to the HAWSA system was approved during the 2020 calendar year. A Water Quality Management Permit for the extension was issued on November 2, 2020. The extension will include the construction of three new pump stations. These stations are currently identified as the Lenker Estates Pump Station, the Creek Road Pump Station, and the Road Cap Lane Pump Station. Construction of the extension is expected to begin during the 2023 calendar year and all three pump stations are anticipated to be connected to the existing HAWSA system by 2024-2025. These flows will enter the HAWASA WWTP through an influent gravity line into the headworks, and won't be conveyed through the Main Pumping Station.

BOYER STREET PUMPING STATION PUMP RUN HOURS 2022

3022

BOYER STREET PUMP STATION

DATE	TIME	HOURS #1	HOURS RAN	HOURS #2	HOURS RAN	TOTAL
1-3-22	1110	18 72-8	14	1,5000	A	TOTAL
1-8-92	1100	1874.2	1.4	152.0	3.5	4.9
1-10-23	1045	1875.4	1.3	1534.0	2.3	7.1
1-14-12	1015	1876.9	16	1.536-3	10	33
1-17-22	1020	19,78	1.3	11538.0	CV-3	2,9
1-21-20	1105	1890 3	2+2	1541.5	3.5	1000
1-24-22	1040	(802	17	1544	213	4.2
1-36-33	4930	10038	1.8	1516.7	777	1.5
1-31-32	1170	1995.4	1.6	1 / S (M) M 1	37	A C
8-4-22	1115	19.69 9	3.1	1553.7	4.8	78
2-7-22	1015	1990,4	4.9	1556, 1	a Ca	4.9
a-11-08	1040	1892.5	2.1	1500	3.3	37
2-14-22	LIOS	1894.0	1.5	1500.7	2.7	4.2
8-19-33	1015	1897	3.0	1567.1	214	74
2-21-22	1150	1899.6	2.10	1570,3	3.0	5.8
2-25-20	1045	L_1932.4T	2.9	1574.8	4.5	7-3
2001	0615	1904.6	9.2	1579.5	3-7	(0)
3-4-22	1045	907.9	3.3	1585.5	4.0	7.3
3-1-12	1050	1911.0	3-1	15863	19	F-04
9-11-29	1105	L 1913.11	2.1	1591.0	4-4	6.8
3-14-32	1050	1915.5	2.4	1594.3	33	5.7
3-19-22	08/5	1919.1	3,6	1598 9	4.6	8.2
2-1-24	1100	1923.2		12829	4	8.7
3-25-27	ò 845	1928.0	5.4	160A	5./	10.5
A CALLETA	1050	1932.3	3.7	1611-7	3.7	7.4
3-31-80	1020	1734.8	25	1614,7	3.0	3.5
4-4-20	1145	1938.8	4	16195	4.8	8.8
4-8-2	1045	1943	4.2	1625-4	5.9	10
4 11-23	-430	14472	42	1630.9	5.5	9.7
4-15-00	1010	1952	4.8	1636.7	3.8	10.6

BOYER STREET PUMP STATION

DATE	TIME	HOURS #1	HOURS RAN	HOURS #2	HOURS RAN	TOTAL
4-18-22	11:00	1955.3	3.3	1640.6	3,9	72
4-22-32	1220	1963.3	8.0	11047.8	7.2	150
4-45-22	1045	19106.9	3.6	1652,5	4.7	8.3
4-29-32	0945	1970.8	3.9	1657.9	5.4	9.3
5-2-22	10.50	1973.5	27	1661.6	3.7	6.4
5-6-20	1005	1976.9	3.4	1666.7	5.1	8.5
5-9-22	1020	1983.6	6.7	1677.3	10,6	17.3
5-13-20	1025	1989.5	5.9	1686.5	9-2	15.1
5-16-22	1040	1993.7	4.2	1091.8	5.3	9.5
5-20-22	1100	,1999	5.3	1698-2	10.4	11.7
5-23-22	1035	2002.4	3.4	12708.9	4.7	8.1
5-27-22	1025	2006.1	3.7	1708.60	5.7	9.4
6-3-02	1030	2013.2	7.1	1716.9	8,3	15.4
6-6-32	1015	2015.7	2.5	17/99	30	5.5
4-10-22	1020	2018.3	2.6	17241	4,2	6.8
6-13-22	1050	2020.1	1.9	1726.7	26	4.4
6-17-22	7025	2022.8	207	1730.0	3.3	6.0
6-20-20	1055	30348	4	1732.3	22	4.3
6-24-80	1035	30373	Q.5	1734.9	2-6	5.1
6-27-02	1,000	20289	1-60	1736.8	1.9	_3,5
7-1-22	10/0	2031.0	2.1	1738.9	2.1	4.2
7-4-22	0950	2032,4	1.4	1740.3	1.4	3.8
7-11-2A	1085	3034.2	1-8	1742.3	\mathcal{Q}_{\perp}	20 at (2)
	<u> (050 </u>	2035.4	1.2	1743.5	1-2	2.4
7-15-22	/030	2037.1	1.7	1745.1	1.6	3.3
	1045	00000	1	1746.5	1.2	2.3
	1035	2539.6	1.4	1747.9	1.6	30
7250	1035	2040.7	1:1	1749.0	1-1	23
7-29-32	1035	2042.3	1.6	1750.6	16	3.2



BOYER STREET PUMP STATION

DATE	TIME	HOURS #1	HOURS RAN	HOURS #2	HOURS RAN	TOTAL
8-1-83	1040	2043,4	-	1751.7	1-1	2.2
8-5-22	0945	12045	1-60	1753.5	1.8	3.4
8-8-30	10900	20 46.9	19	1755.4	19	3.8
8-12-22	0910	2048.5	1.10	1757	1.6	3.2
8-15-22	1045	2049.5	1	1758	j	1
8-17-20	0940	2050.9	1.4	1739.3	13	137
8-22-32	0955	13052	1.1	1760.4	11	2.2
8-26-23	1210	2053.6	1.6	1702.2	1.8	3.7
8-29-20	10740	20.54.5	9	17/03.1	9	1.8
9-2-32	1110	-2056.	1.6	17647	1.6	3.2
9-5-82	0950	2057.9	2.8	1766.5	7.8	3-6
9-9-22	1025	2059.7	1.8	1768.0	1.5	3.3
9-12-22	1025	2060.7	1.0	17690	10	0.0
9-16-28	0930	20619	1.2	1769.9	7	3.7
9-19-20	6950	2063	1-1	1770.6	- 7	7.8
7-013-02	1005	120443	1.3	1-771.6	1.0	2.3
9-20-22	1045	20105 3	.9	172.5	1,9	1.8
9-30-22	1115	2066-7	1.5	1773.5	1.0	2.5
10-3-22	1105	2007.8	101	1774.4	7	3.0
10-7-22	1040	Java9.4	1.60	1-775.8	1.4	3.0
10-10-22	1045	2070.4	1.0	1776.60	*8	1.8
10-1400	1040	2072.0	1 10	1777.9	1.3	3.9
10-17-02	1045	12073-1	hel.	1778.7	08	7.9
10-21-22	1010	2074.7	1.60	1780.0	1.3	2.9
10-24-32	1040	2075.6	,9	1780-8	-8	17
10-27-22	1030	2076.9	1.3	1791.8	10	53
10-31-20	0950	2077.7	-3	17095	7	1.5
11-4-22	1045	2079.1	1.4	1783.5	10	2.4
11-7-20	1015	13080 T	4	1-124-2	7	16,
11-11-22	1015	2081.1	1-1	1784.2		21
11-14-22	1105	3082	.9	1786	.8	2.7
11-18-22	1025	&083.d	1.2	1786.9	.9	2-1
11-21-22	1035	2084.1	.9	1787.7	e S	17

11.15

The state of

BOYER STREET PUMP STATION

MONTH	YEAR	208	2	20			7
				1			TR
DATE	. No.	PUMP #1	HRS		PUMP #2	HRS	
1-3123	1035	3084.1	9		7877	*(E)	1 1.
13820	1050	2000.1	0.9		1788.5	0.8	1 1.
2-2-33	0920	2087	1.0		1-180-6	0.6	1 1-
3-5-33	1135	20879	09		17904	0.6	1 1
7-17-20	1045	20899	1.0		17911	0.7	1 4-5
2-17-20	1040	2091.2	1.3		7918	0.7	1 15
3-10-98	1050	20922	10		1937	. 9	2-0
1+13:27	950	3094.0	1.8		79435	7/1	1.7
3032	0935	80955	1.5		795.5	10	77
Z Ja oz	0735	2097-1	1.6		796.5	1.0	2.6
				Mills and character trype and a second			
					Control to a gardenic or a second section of the second section of		
				-			
The same of the sa	-						

MAIN PUMPING STATION PUMP RUN HOURS JANUARY 2022 - JUNE 2022

SANUARY	2000
OUNTING	2032

			pump R	NET WU	IR / PUN	IP STAT	ION	
			41	RUN	サ み.	BUN	Accompany of the control of the cont	
	DA'TE:		pomp	TIME	1 pump	DIME	ZVICHES	•
	JAN.	1.	30487.5	24.4	23998.0	2.8	38.3	
		2.			24014.5	16,5	51.9	
		3.	the same of the sa		24025	10.5	55.1	
		4	30559.1		24030,6		52.3	
		5,			240,35.4		53	
			30607				51.2	
			30631.2		24048.8		48.3	
			30656.5	25. 3		2.8	52.0	
			30682.7	26,2	240522	5,6	73.0	
		10.		20.4	24063.6		[5]	
					24065.5		45.2	
			[3075]-1	24	240664	.9	45.1	
			30775.1	24	24068.2	1.8	485	
والإعادة سورس			130799.1	34	24069	.8	9.	
		15		26.5	Control of the Contro	5	54,0	
		16.	30946.9		4	2,3	47.5	
		17.	20871.2		24084.0	7.7	52.0	
		18.1	30895.1	23.9	240979	13.9	4Ce	
			30919		24103.9	5.9	53.	
			30943.1	04.]	24/07.4	3.6	54	
		1.3	307107,5		24112.2	9.8	56.8	
		J9.		25.3	24 113 1 24 115, a		57.7	
		d3.	0 1 0 4 0	23		2.1	51.6	
		24.	6 7 6 1	23.2	24/30.3	5	53.3	
		25		24-1	341234	3.2	52.1	
		- 11	310.87	239	24/25.5	3.	51-8	
		11	31111.11	The second secon	24/25.6		51,5	
		**	31/35	territoria de la companya del la companya de la com	24125.6	8	38.8	
		29.	31160.1	25.1	24125.6		44,3	
			31184.7	24.6			44.0	
- and the second		31-	31267.3	22.6	24126.4	*3	41,7	
			31 231	33.7	24126.4	0	39.1	
						<u> </u>		Marie III de la Companya de la Comp

FEBRUARY 2022

	No.	pump	RUNT	IME/PU	IMP STA	MOE!	
	LON.	#1. pump	RUN	1 #2.	RON		7
	DATE:	PUMP	TIME	11 pomp	TIME	1 INCHES	
	FEB- 1.	31.231	23.7	24126.41	8	39.4	
	2.	31255	24	241264		40	
	3-	31279		24 127.8	1.4	59.3	
	4.	31303.	24	24157.8	24	117.3	
	5.	31 327,7	24.7	24174.2	16.4	62.6	
	6,	31 351.7		24185.2	11	57.7	
1	7-		23.4	24195.4	10.2	56.4	
	8,	31399	23.9	24210,8	15.4	54.9	
4	9,	31423	24	24227.2	26.4	32.6	
4	10.	31447		24234.2	7	53	
1	11.	31471	24	24234-3		47.7	
1	<i>A</i> -	31444	23	The second secon	.5	42.3	
1	/3.		29.9	24242.0	7,2	56.0	
+			19,2	24243.8	1.8	52.6	
1	15.	3567	23.9	24244.4	.6	53-2	The same of the sa
+		31591	24	24845.1	.7	49.7	
+		3615.11	24.	24245.7	*6	46.2	
-		31639-1		24256	10,3	50.8	
1	19-	316 64, 3	25.2	a4265.2	9.2	54.1	
1		31688.5	24,2	ar in the same and	5	53.6	
-		31713.5		24277.5	7.3	57.8	
1				24,286.5	9	49,8	
1			The state of the s	24294.2	7.7	50.1	
1				34295.6	1.4	522	- manufacture () () - manufacture () manufacture ()
	- 11	31806.9		24297.6	2	63.3	
	36.		265	24 304.5	11.9	54.5	en e
-	27,		22.0	24315 a	5.7	53.9	
-	28.	318799	22.6	24321.6	6.4 1	51.9	
	- 1	The state of the s					
			The second secon				
				a . The same of			

MARCH 2022 PUMP RUNTEME/ PUMP STATION 出 ¥2. RUN RUN 39/AO PUMP. PUMP TIME TOMF INCHES 24. 31903 81 DECAST 243255 3.9 MARCH 1. 31926.7 23.7 134330.8 23 52.1 24339.1 1951 24.3 6.3 52.7 . 24 31975 54 243414 2.3 23.8 31998,8 24 342,7 13 52.8 537 32023 2 24.4 8.3 243510 6. 300469 23.7 8,9 243599 5/1 32070.9 24 9.6 24369.5 51 24377.3 52.1 23.9 54.8 2447.0 55.6 54.7 32167.7 24.8 13.6 24420.6 24440.1 321925 24.8 19.5 1,2.9 31.4 24455.1 22 813.9 14. 52 32 237.9 15. 24 15. 24470.2 51.2 32,261.9 24487,8 50.1 23.9 24504.5 32309.8 19.7 24 53.6 245242 25 24.344.7 20.5 32334.8 55.8 32359.6 24.8 2456,8 51. 3 ali 3238/7 12. 24694.8 48.3 DECANT 19 24 132405.7 24605.3 20,5 72.2 24 24625,5 20.2 53 24 19.7 48.6 2465.2 24 QC. 51.1 50.9 No. 49.9 27. 30.525.6 23.9 18.5 24701.7 49.8 28. 24 19.4 239 16.6 30, 24.2 14 754.6 16.9 53.2 32621.6 16-4 540

APRIL 2022

Pump	RUN	NIMES /	pump station	A 700 male of 1
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	*	and the second s		/		111155010	
· ·	DATE:	PUM?	RUN	- PUMP	RUN	1 INCHE	5
	APRIL 1	. 32645.5	1	24792,8	>	65,3	
	2		2416	24817.5	24,7	80.1	
	3	32694,8	24,7	24842.0	24.7	107.1	
CLEAN-OUT	4		1 22.7	24864	8 22.6	101.2	
DEEL	1 5.	the state of the s		1 34899.	1 23.6	52.4	
MOUNTS	6.	327645	22.9	124892	3.6	45.2	
. 4º	f	32788.8		124914.7	11 22.5	87.3	
	8.	11-0	24	24938	7 24	72.6	CLEAN
1 Alas	9.	32838.2	25.4	24964.1	25,4	134.5	10070
PROBLEM	> 10.	32861,3		24987, 1	1	100.3	former
6Knp.	> 11.	32884.7	23.4	25010.4	23.3	96.8	4DECADE
	12.	39908.7	24	25034.4	24	1089	DECAST
Pump	13.	32932.7	24	3747.7	.2	56.4	ECAT PUMP
#2	14.	32956.7	24	3749	1.2	33.1	#2
	15,	32980.7	24	3750.6	1.5	52	
	16.	3 3 0 03, 9		3752.1	1.5	418.5	
**************************************	17-	33029.7	25.8	3754.0	1.9	64.4	
	13.	3.3052.7	23	3755,2	1.2	60.1	
Y	19-	33076.7	24	3758.8	3.6	57.2	
Printeen was an analysis and	20.	33/00-7	24	3762	3,2	65.1	
	21,	33124.7	24	3763.9	1.9	62.6	•
PROFESSION (1997)	_ d0.	33148.7	24	3765.8	1.9	61.0	(
State and the second se	23	33173.3	24.6	3768.3	2,5	56.0	•
Annaharan and an annahara	24.	33194.7	21.4	3769.9	1.6	54.8	
	25.	33720.9	26.2	3772.3	2.4	49.8	
	26.	33244.7		3773.8	1.5	58.1	
	22	33268.7	24	3775.4	1.6	61.2	
	28.	33 399.7	24	3777.1	1.7	60.7	
		33314,7	24	3778.7	1.6	44.3	ē
	30.	33339.7	23	3779.6	.9	61.9	0 6
							ē
	:		And the second	The second secon			
			1			1	4

LACH	MARIA	
MIH	allow	

3		City	7.1			1	
		. Puny	and the second	IMES / S	mp s	TAION	1
	\$ 1. 1 1. 2 1.	41	RUN	CAI	RON	1160	
	DATE:	Pum	MANE	PUMP	Time	ENGHES	
	mA9 1.1	33363.6	239	3780,4	. 8	529	
	2.	33388.7	25	3782.1	1.7	69.1	
	3.	33412.6	0.3.4	3784	1.9	59.8	
	4,	33436.5	33.9	3784.1		60.8	
		33 460.6	84.1	3184.5	À	53.1	
	-5,	33 484.6		3786.0	1.5	51.8	
	6.	33 509.1	24.5	3795, a	4.2	53.4	T T T T T T T T T T T T T T T T T T T
	4	4	23	3806.7	11.5	39.1	
- LH	8,	33532,1	The second secon		and the same of th	44.4	
AUIII	9,	33556.8	24.7	3815.2	8.5		
- 1)	10,	33580.5	23.7	3821-3	6.1	62.3	
29	1 11.11.	33604.5		3826.8	5.5	56.	01 2000
DAYS	J 10.	33607.4	62.9	3834.2	7.4	35	PUMP <
Pump Keno	160 (13)			3843.5	9.3		7,110
	14.			3852.3	8.8		
	15.			3861.6	9.3		•
	16.			3870.8	9.2		
	17.			3880.1	9.3	-	
	18,		Managed in the contract of the	3888.9	8.8		
	19.		1	3897.6	8.7		
<u> </u>	26:			3906.4	8.8	_	
and the second s	1 21	11		3906.4	7.4	- du-	
	30		-	3923.2	9.4		
	33.			3931.8	8.6	~	
	24			3939.6	7.8	-	
	35,		1	39 47.4	7.8		
	A STATE OF THE PARTY OF THE PAR			3954.7	7.3		
	26		1	3962.3	7.0		3
	27			3971. 5	9.2		
) Je			3979.9	8.4	1	
	29	14.	÷	H			
_ and a second s	30	在 基		4003.5	23.6		
	3.	1-1		4016.7	13.2		
3							
			.1				11

.

JUNE 2028 - PUMP RUN TIME CAT RUN RUN TI pump POMP TIME TNOHES DATE: 4024.6 JUNE 4032.6 9.6 4049,5 4069.1 196 4108.3 PULL PUMP/CLEAN 4/16.6 5.9 4122.5 13. 14-15. 20. 21. 22. 23. 24. 25, 26. 27 20, 29. 30.

MAIN PUMPING STATION PUMP RUN HOURS NOVEMBER 2022

MONTH NOV

7114

YEAR 2022

DAY OF WEEK	MON	TUES	WED	THURS	FRI	SAT	SUN
DATE	14	15	16	1-7	18	19	20
INFLU #	4084	9/98	9332	9443	9546	9644	1750
FLOW	93	+14	134	All Controlled	103	98	108
EFFLU 8	7/82	7268	7374	7469	7556	7634	7711
FLOW	68	36	106	9.5	8-7	78	77
RAIN	Ø	6	,80	0	0	6	0
TEMP	390	350	350	540	320	28"	29
				UENT	Activities of the second section of the second section of the second second second second second second second		*
PH	7.4	7.5	7.4	7.4	7.5	7,5	7,4
DO	6.1	6.3	[G.]	6.3	and the second s	6,3	6,0
DO .	6.1		WER RU	MP STAT	10N 4.6	4.2	5

2.1 DEPTH 9.0 2,1 #1 HRS 2003 203.0 206.0 208.4 213,1 215.6 210.9 HRS RAN 2,2 2.5 She r 3.0 2.40 2.1 #2 HRS 190.2 198.4 200,7 192.8 1959 25,3 200.7 3.6 2.2 HRS RAN 2.6 26

UPPER PUMP STATION

DEPTH	2.2	2.5	9.1	2.5	12.4	2	2.1
#1 HRS	111.4	112.8	1144	115.8	1/7.0	118.3	1195
HRS RAN	1.2.	1.4	1.6	1.4	1.2	1,3	1.3
#2 HRS	111.8	113.2	114.8	116.2	117.5	118.6	114.9
HRS RAN	1.1	1:4	1.6	1, 4	1.3	The state of the s	13

UV LIGHT

#1 HRS	OFF	OFF	OH	DEE	OFT	Offi	OF
#1 INTEN	and the second second	Company Control	And the second s	estate to the control of the control	The second second	Acres	COMMENTS.
#2 HRS	2113	12136	2161	2184	2209	2233	2251
#2 INTEN	.9	1.0	1.2	17.7	1.1	1.0	d

ONTH NOV

YEAR 2000

	1404	TUES	WED	THURS	FRI	SAT	SUN
AY OF WEEK	MON	8 25 30 75	0.0	20.1	75	A (0	01
DATE	01	99		X 7	12/100	10 765	10472
INFLU #	9853	9962	10075	LONG	10300	777	107
FLOW	101	109	113	1345	Lasta -	511.8	4250
EFFLU#	7793	7871	7908	12047	10112	2100	82
FLOW	81	79	97	101	107	10	0
RAIN	0	0	0	10	10.10 -	+37	478
TEMP	1100	190	190	UENT	1 31	1	1 - 1 /

						thereby cong	1 2 9
and the second s	- 4	miles de la company	-7 (7.3	7.0	1/1	1.3
PH	7.4	1.3	1	170	13	1.3	(0.2
00	10.1	6.7	10.1	16.5	1 0-1	<u> </u>	
	and the second s		LIG CITLAGE	MAD STATI	ON	01	> A

		Law	The second second second second			The second name of the second
Colored Colore	LO	WER PUN	IP STATIC	1N 4.2	3.6	5.0
) 4.9	4.8	5.	7.3	27	2.4	3.4
2.7	2.7	3 3	7005	7977	129.6	231.6
215.1	220.3	233.7	407	22	18	2.6
2.5	3.7	3.4	4,3	7172	7.4	Tagis
207.7	12103	2,3.0	1915.5	1 x / / x)	X	2.4
24	12.6	12.7	3.2	1 8.1	1.0	acceptance of the contract of
The same of the sa	3.1 2.5 2.7 2.7	3.1 220.3 2.5 2.2 207.7 2103	2.7 2.7 33 218.1 220.3 222.7 2.5 2.2 3.4 207.7 2103 213.0 24 2.6 2.7	3.7 2.7 33 Q.6 218.1 220.3 220.7 295 2.5 2.2 2.4 2.3 207.7 2103 213.0 215.3 24 2.6 2.7 2.3	3.7 3.7 33 Q.6 2.7 215.1 220.3 220.7 285 287.2 2.5 2.2 2.4 2.3 2.2 207.7 210 3 213.0 215.3 217.3 2.4 2.6 2.7 3.9 2.1	3.7 3.7 3.3 2.6 2.7 2.9 215.1 220.3 220.7 285 287.2 289.6 2.5 2.2 3.4 2.3 2.2 1.8 207.7 210 3 213.0 215.2 217.3 219.1 24 24 2.6 2.7 2.9 2.1 1.8

UPPER PUMP STATION

						and the last commence where the same of the same of
The same of the sa		1.2.1	2 ()	9.0	2.1	2.2
2.0	2-3	000		1000	1266	127,9
120.7	1220	1/23.4	1340	143	9	117
1.2	1.5	1.4	1.1.	100	- Tay	1283
121.2	133.5	123.9	135.0			1 3
1.3	1:3	1.4	N. Connection	1.1	11,0	
	120.7	1.2 1.3 121.2 1.3	2.2 2.2 2.1 120.7 122.0 123.4 1.2 1.3 1.4 121.2 122.5 123.9	120.7 122.0 123.4 124.6 1.2 1.3 1.4 1.3 121.2 122.5 123.9 125.0 13 1.3 1.4 1.1	2.2 2.2 2.1 2.0 2.0 120.7 122.0 123.4 124.6 125.7 1.2 1.3 1.4 1.2 1.1 121.2 123.5 123.9 125.0 126.1 13 1.3 1.4 1.1 1.1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

UV LIGHT

		and the second s	1	to done it	ACE	7	OH
#1 HRS	OFF	OFF	OFF	Off	UPT	and the same of th	
#1 INTEN	parateuridan	State of the state		100.00	8376	13347	2426
	2280	2304	Company of the Company	1350	$\frac{1}{1000}$	180	10.9
#2 INTEN	. 8	19	1 × X		10.0	1117	

NONTH NOVEMBER

YEAR 2022

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INFLU #	10570	10697	10789				
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EFFLU #	8328	8499	18500		the section of the se		
FLOW	78	94	18		gang and committee and the state of the stat		
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1 640	000	M- V	and the same of th	and the same of the same of	10.5		
	And the second s	1 014	ANTID DALLA	D STATIC	3 FV		

	16	1.100	NER PUMP			1
DEPTH	2.4	3.0	3.2		The second secon	
#1 HRS	2339	237.1	2391			
IRS RAN	4.3	3.2	201			
#2 HRS	285.8	3-360	330-1			
HRS RAN	23	30	1.7	and the second second second second second second	 	

UPPER PUMP STATION

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DEPTH	8-1	23			
#1 HRS	139		17312		
HRS RAN		1.7	1-1-		
#2 HRS	139.5	LIL	1092		The second secon
HRS RAN	1.2	1/0		PAIT	and a second control of the second control o

UV LIGHT

			I BEE	
#1 HRS	OFF	OFF	1 OFF	
#1 INTEN	-carried and a series	Property of Control	Name of the latest of the late	
P. D. Salar	19449.	9473	2497	
#2 INTEN	10.8	09	1 6.8	And the second s

MAIN PUMPING STATION PUMP RUN HOURS AUGUST 2022 - DECEMBER 2022

MAI	N LUENT (PUMPS				HRS.		
DATE:	DEPTH	# 1 PUMP	#1 pump	#2 Pump HRS.	#2 pump TOTAL	TOTAL BOTH		
2022 AUG. 17	L.9"	2	2	1	1	3		
18	2.1'	9	7	14	3	10		
19	1.9'	16	7	9.5	5.5	12.5		
20	3.5'	17.7	1.7	11.1	1.6	3.3		
21	2.91	19.9	2.2	23.1	2.2	4.4		
22	- 2.6'	22	2.1	15.4	2.1	4.2		
23	2.0	24.2	2.2	17.4	2.0	4.2		
24	1.7'	26.3	2.1	19-5	2.1	4.2		
25	1.7	28.4	2.1	21.5	2.0	4.1		
26	28' -	30,4	2	23-4	1.9	3,9		
27	3.8'	32.2	1.8	25.2	1-8	3.6		
. 28	1.5'	34-3	2.1	27.2	2.0	4.1		
29	1.5'	36.2	1.9	29.	1.9	3.8		
30	2.7'	38.2	2.0	31	1.9	3.9		
31.	3.2'	40.3	2,	33	2.0	4.1		
AVERAGE -								
MAX - MIN -								

J	PA	WENT PU	mPS.	P. Carrier and Car			Has.
DAT		DEPTH	#1 pump HRS-	#L PUMP TOTAL	#2 Pomp HRS-	#2 POMP	10TAC BOTA
SEPT 2022	1	3.3	421	1.8	34.8	1.8	3.6
	2	3-1	44.2	2-1	36.8	2.0	4.1
	3	2.9	46.0	1.8	385	1.7	3.5
	4	3.0	48.0	2.0	40.5	2.0	4.0
	5	2.7	49.8	1.8	42.2	17	3.5
	6	2.1	53.5	3.7	45.8	3.6	7.3
	7	2.4	55.8	2.3	47.9	2.1	4.4
	8	3.3	58.0	22	50.1	2-2	4,4
	9	2.6	60-5	2.5	52.4	2.3	4.8
	10	2.8	62.4	1.9	54.3	1.9	3,8
11.00		2.1	64.8	2.4	56.6	2.3	4.7
	12	1.9	67.2	2.4	59.0	2-4	4.8
	3	2.2	693	2.1	61.0	2.0	4.1
1	4	1,9	71.4	2-1	63.0	2.0	4.1
15	5	3.2	73.4	2.0	64.9	1.9	3.9
						AVERAGE-	4.33
	Tirms to angulates they have			To Symp		may -	7.3 3.5

MA	WENT PL	mPS.				HRS.
JAYE:	DEPTH	#1 pump HRS-	#1 pump	#2Pomp Hes-	#2 pomp	107AC 807A
SEP1-	2.0	75.3	1.9	66.8	1.9	3.8
17	3.0	77.1	1-8	68.5	1.7	3,5
19	3.4	79.2	2.1	70.5	2.0	4.1
19	1.9	81.3	2-1	72.6	2.1	4.2
20	1.9	83.7	2.4	74.8	2.2	4.6
31	2.9	85.8	2-1	76.9	2-1	4.2
93	2.0	87.8	2.0	78.9	2.0	4.0
23	1.9	89.7	1.9	80.6	1-7	3.6
24	2.2	91.4	1.7	82.3	1-7	3.4
25	3.0	93.1	1.7	84.0	1-7	3.4
26	3.0	95.5	2.4	86.2	2.2	4.6
27	1.9	97.4	1.9	88.1	1-9	3.8
28	2.8	99:3	1.9	89.9	1.8	3.7
29	2.7	101-2	19	91.7	1.8	3.7
30	24	103./	1.9	93.5	1-8	3.7
					AVERAGE-	3.89
			Trans.		max -	4.6

MA	ENENT PL	mps.				7.4
DATE:	DEPTH	#1 pump HRS-	#L pump	#2Pomp	#2 pomp	HRS.
2022 /	3.4	104.9	1.8	H25-1 95-4	70.7AL	807 3.7
2.	2.5	207.7	2.8	98.0	2.6	5.4
3	2.8	110.8	3.1	101-0	3.0	6.1
4	2.8	113.0	2.2	103-1	2-1	5.3
5	2.2	116.2	3.2	106.1	3-0	6.2
6	2.1	118.4	2.2	100.3	2.2	4.4
7	3.3	120.8	24	110.5	2.2	4.6
8	2.6	122.5	1.7	112.2	107	3.4
9	2.7	124.8	2.3	114.4	2.2	4.5
10	2.2	127.2	2.4	116-8	2.4	4.8
11	2.0	129.4	2.2	118.8	2.0	4.2
. (3	2.8	131.5	2.1	121.0	2.2	4.3
_ 3	2.7	134.1	2.6	123.5	2.5	5./
14	2.6	136.9	2.8	126.1	2.6	5.4
15	3.3	138.7	1.8	127.9	1,8	3.6
					AVELAGE	4.73
			T Cabo		MAX	6.2 3.A

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ٺ	100 0	17					
,	MAINI	EN PL	mPS.				HRS.
	JAYE:	DEPTH	#1 pump HRS-	#L PUMP POTAL	#2 Pomp Hes-	#2 pump TOTAL	707AC 807A
	00T.	3.4	141.2	2.5	130,3	24	4.9
manufacture of the second	. 17	2-1	143.5	2.3	132.5	2.2	4.5
	18	2.2	145.8	2.3	134.7	2.2	4.5
	Å	2.9	147.9	2.1	136.8	2.1	4.2
3	20	2.9	149.9	2.0	138.6	1.8	3,8
-	21	1.5	151.9	2.0	140.6	2.0	4.0
1	22	1-6	153.7	1.8	142.3	1.7	3,5
-	23	3.4	155.6	1.9	144.1	1.8	3.7
	24	2.3	157.9	2.3	146.5	2.4	4.7
	25	3.3.	160.3	2.4	149.0	2.5	4.9
-	96	1.6	162.2	1.9	151.0	2.0.	3.9
	27	2.8	164.1	19	1528	1-8	3.7
-	<u> </u>	2.8	1 (do	19	154.7	1.9	3.8
1	29	3.2	167.7	1.7	156.3	1.6	3.3
-	30	3.4	169.8	2.1	158.4	2.1	4.2
	31	2.2	171.7	1.9	160.3	1.9	3.8
	AVERAGE- 4.09						
Ī				**		mta)-	4.9

mw- 3.3

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m	IAIN	INFLUE	ENT	Pump	25	HRS.
SYNG.	DEPTH	#1 Pump	#L PUMP	#2 pomb	#2 pump	TOTAL BOYH
2022	3.9	174.4	2.7	162.7	2.4	5.1
2	29	176.1	1.7	165.6	2.9	4.6
3	2.2	178.1	2.0	167.5	1.9	3.9
4	3-1	180.0	1.9	169.4	1.9	3.8
5	1.6	181,9	1.9	171.2	1.8	3.7
6	1.6	183.6	1.7	172.8	1-6	3.3
7	1.6	185.9	2.3	174.9	2.1	4.4
8	2.0	187.9	2.0	178.0	3.1	5.1
9	2.2	189.8	19	179.9	1.9	3.8
10	3.5	191.6	1.8	181.6	1.7	3.5
11	1.5	193.4	1.8	183.3	1.7	3.5
12	3-1	196-1	2.7	185,9	2.6	5.3
13	2,9	198.2	2.	180	2.1	4.2
14	3.0	200.3	2.1	190.2	2.2	4.3
15	2.1	203.0	2.7	192.8	2.6	5.3
16	2,2	206.0	3.0	1959	3.1	6.1

AVERAGE - 4.37 MAX - 6.1 .22 G9. 3.3

MAIN	PUMPS	#1.	1 #2,	TOTAL	
DATE:	DEPTH	Hrs.	HRS.	HOURS	
DEC. 1, 2022	2.3	2.3	2.2	4.5	
12-2-22	19	2.0	1.9	3.9	A CAMBON IN THE PROPERTY OF TH
12-3-22	2.7	1.6	1.6	3.2	
12-4-22	2.3	2.9	2.9	5.7	
12-5-22	1.5	2.3	2.2	4.5	
12-6-20	2.8	2.8	2.1	4.9	
12-7-22	3,2	2.5	2.3	4.8	
12-8-22	2.9	2.0	1.8	3.8	
12-9-22	2.5	1.9	2,0	3.9	
12-10-22	2.6	2.2	2.1	4.3	
12-11-22	2.0	1.7	1.7	3.4	
12-12-22	3.3	2.4	2.2	4-6	
12-13-22	3.2	2.0	2.0	4.0	s
12-14-22	1_6	2.1	2.0	4.1	
12-15-20	2.7	23	2.6	4.9	
12-16-22	2.9	4.8	4.5	9.3	

#1.)

MAX. AVERAGE			10.7 5.57	#2.)
_MIM.			3.2	
12-31-20	1.9	2.9	3.0	5.9
12-30-22	2.3	2.7	2.7	5.4
12-29-22	2.4	3.2	3.0	6.2
12-28-22	2.0	3.8	3.5	7.3
12-27-22	2.0	3.3	3.2	6.5
12-26-22	1.8	3.0	2.8	5.8
12-25-22	1.6	3.9	3.8	7.7
12-24-22	2.6	4.5	4.4	8.9
12-23-22	2.5	5.4	5.3	10.7
12-22-22	2.3	2.8	2.6	5.4
12-21-22	3.0	2.5	3.0	5,5
12-20-20	3.3	2.6	2.4	5.0
12-19-22	1.5	2.5	2.5	5.0
12-18-22	3.3	3,2	3.2	6.4
12-17-22	2.3	3.4	3.4	7.3
MAIN DATE:	DEPTH	#1. HRS.	#J. HRS	TOTAL HOURS

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	1001		2000
MONTH	JAN	YEAR	

DATE	MAIN PUMP #1	MAIN PUMP #2	BLOWER PUMP #1	BLOWER PUMP #2	EMERG BLOWER	SLUDGE PUMP	DIGESTER BLOWER #1	DIGESTER BLOWER #2
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MONTH FEE	YEAR 2022
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DATE	MAIN PUMP #1	MAIN PUMP #2	BLOWER PUMP #1	BLOWER PUMP #2	EMERG BLOWER	SLUDGE PUMP	DIGESTER BLOWER #1	DIGESTER BLOWER #2
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29				-		1	-	
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MONTH_MARCH

YEAR_2600

DATE	MAIN PUMP #1	MAIN PUMP #2	BLOWER PUMP #1	BLOWER PUMP #2	EMERG BLOWER	SLUDGE PUMP	DIGESTER BLOWER	DIGESTER BLOWER
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MONTH /	WAIL	YEAR_	202
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DATE	MAIN PUMP #1	MAIN PUMP #2	BLOWER PUMP #1	BLOWER PUMP #2	EMERG BLOWER	SLUDGE PUMP	DIGESTER BLOWER #1	DIGESTER BLOWER #2
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DATE	MAIN PUMP #1	MAIN PUMP #2	BLOWER PUMP #1	BLOWER PUMP #2	EMERG BLOWER	SLUDGE PUMP	DIGESTER BLOWER #1	DIGESTER BLOWER #2
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MONTH_JUNE	YEAR_2022
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DATE	MAIN PUMP #1	MAIN PUMP #2	BLOWER PUMP #1	BLOWER PUMP #2	EMERG BLOWER	SLUDGE PUMP	DIGESTER BLOWER #1	DIGESTER BLOWER #2
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MONTH	Ju	LY	
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DATE	MAIN PUMP #1	MAIN PUMP #2	BLOWER PUMP #1	BLOWER PUMP #2	EMERG BLOWER	SLUDGE PUMP	DIGESTER BLOWER #1	DIGESTER BLOWER #2
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MONTH AUGUST

DATE	MAIN PUMP #1	MAIN PUMP #2	BLOWER PUMP #1	BLOWER PUMP #2	EMERG BLOWER	SLUDGE PUMP	DIGESTER BLOWER #1	DIGESTER BLOWER #2
1	OFF	LINE						1166
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20							CIBAL	
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22	C. Carrier of the Control of the Con	Polyment Company						
23	A Transaction							
24	Town to Exercise							
25	Andrews of Control	1616 con page of						
26	and to constitute the		-					
27		and an individual					-	
28	The same of the sa							
29	1/	0//						
30	V	V						
31								

MONTH_SEPTEMBER

DATE	MAIN	MAIN	BLOWER	BLOWER	EMERG	SLUDGE PUMP	DIGESTER BLOWER	DIGESTER BLOWER
	PUMP	PUMP	PUMP	PUMP	BLOWER	POWP	#1	#2
4	#1	#2	#1	#2 Y RUNN	701/		71	172
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MONTH OCTOBER

DATE	MAIN PUMP #1	MAIN PUMP #2	BLOWER PUMP #1	BLOWER PUMP #2	EMERG BLOWER	SLUDGE PUMP	DIGESTER BLOWER #1	DIGESTER BLOWER #2
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MONTH NOVEMBER

DATE	MAIN PUMP #1	MAIN PUMP #2	BLOWER PUMP #1	BLOWER PUMP #2	EMERG BLOWER	SLUDGE PUMP	DIGESTER BLOWER #1	DIGESTER BLOWER #2
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MONTH DECEMBER

DATE	MAIN PUMP #1	MAIN PUMP #2	BLOWER PUMP #1	BLOWER PUMP #2	EMERG BLOWER	SLUDGE PUMP	DIGESTER BLOWER #1	DIGESTER BLOWER #2	
1									
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ATTACHMENT D: Sewage Sludge Management Inventory





SEWAGE SLUDGE MANAGEMENT INVENTORY

As a part of the 2022 Wastewater Treatment Plant Upgrades Project, the previously existing treatment tanks were repurposed into Aerobic Sludge Digestors. The tanks were updated with new coarse bubble diffusers and were reconnected to the headworks of the plant for RAS purposes. Sludge to be disposed is pumped and hauled from site after decanting from the repurposed Aerobic Digestors to thicken sludge.

The existing above ground steel Aerobic Sludge Digester tank (41,000 gallon capacity) was demolished on October 25th, 2022, and the new Aerobic Sludge Storage tanks placed into service shortly after. Two "Sludge Generation Calculation" forms are being submitted with this Chapter 94 Report. One form is for the previously existing Activated Sludge Treatment process, and the other for the upgraded SBR HAWASA WWTP. The Upgraded WWTP includes a new Aerobic Digestion systemThe total dry tons of sludge hauled off site in 2022 was 4.282 tons.

It is being assumed for the purpose of the sludge generation calculation that 138 days worth of sludge (August 15, 2022 – December 29, 2022) were generated from the new SBR system. And that 227 days (January 1, 2022 – August 14, 2022) of sludge was generated from the original activated sludge treatment processes. The total sludge generated for the year (4.282 dry tons) was divided between the two time periods according to number of days that each respective treatment facilities operated in 2022. It was calculated that the original activated sludge HAWASA WWTP produced 2.663 dry tons of sludge and that the new SBR process generated 1.619 dry tons of sludge, totaling the 4.282 dry tons hauled off site in 2022.

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	JANUARY 2022	
Municipality:	Halifax Borough	NPDES Permit No. PA 0024457	
Watershed:	6-C		This permit will expire on April 30, 20

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

	Liqu	uid Sewage Sludgr	e / Biosolids Hauled Off	f-site	Dewatered !	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	
			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					
			X 0.0000417				X 0.01					
1/4/22	5,500	1.9	X 0.0000417	0.436			X 0.01					
1/4/22	5,500	1.8	X 0.0000417	0.413			X 0.01					
1/4/22	5,500	1.6	X 0.0000417	0.367			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					
	16,500	1.8	X 0.0000417				X 0.01					
			TOTAL:	1.216	1	MILITARY CONT.	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:	101606	WH-0422-05	
Type of Material*	Liquid Biosolids	Liquid Biosolids	
Dry Tons Disposal:	0	1.215555	
Gallons Disposed:	0	16,500	
Type of Disposal/Use:*	Sewer Plant	Sewer Plant	
Hauler Name:	Kline's Septic	Kline's Septic	

^{*} See Instructions for explanation

Lecrtify 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 height 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 unswern falsification).

Prepared By:	Jeffrey L. Grosser	Signature:
3		
Title:	Manager	Date:
	The state of the s	9

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

SUPPLEMENTAL REPORT SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL

Halifax Area Water and Sewer Authority		FEBRUARY 2022
Halifax Borough	County: Dauphin	NPDES Permit No. PA 0024457
6-C		This permit will expire on April 30, 202
	Halifax Borough	

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			
te	Gallons	% Solids	X Conv. Factor	= Dry Tons	Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons	Tons dewatered	X % Solids	= Dry Tons
			X 0.0000417				X 0.01				
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			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				
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-			TOTAL:	0.000			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	0	
Gallons Disposed:	0	0	
Type of Disposal/Use:*	Sewer Plant	Sewer Plant	Anna anna anna anna anna anna anna anna
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:	Sal-d. D. Noseh
Title:	Manager	Date:	OUN MARCH 14, 2022

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			MARCH	2022	
Municipality:	Halifax Borough County: Dauphin				NPDES Permit No. PA 0024457	
Watershed:	6-C		This p	ermit will exp	re on April 30,	

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
			X 0.0000417				X 0.01				
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			TOTAL:	0.000	Ī	Action to the second se	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	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 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: _	Valla 9	A CON	Alla	
Title:	Manager ,	Date:	ALVIDE	PATL_	26,	2022

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	falifax Area Water and Sewer Authority				
Municipality:	Halifax Borough	County: Dauphin	NPDES Permit No. PA 0024457			
Vatershed: 6-C			This permit will expire on April 30, 202			

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

	Liquid Sewage Sludge / Biosolids Hauled Off-site			Dewatered \$	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
1/5/22	2,400	3.0	X 0.0000417	0.300			X 0.01				
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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 Flant	
Municipality	Salunga	Harrisburg	
County:	Lancaster	Dauphin	
DEP Permit Number:	101607	27198	
Type of Material*	Liquid Biosolids	Liquid Biosolids	
Dry Tons Disposal:	0.30024	0	
Gallons Disposed:	2,400	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	Signature		d.D.W	<u> </u>
Title:	Manager	Date:	JM .	1 MA4	19. 2027
	The state of the s	Date.		1 11 1	10) 3

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					

MAY 2022

NPDES Permit No. PA 0024457

This permit will expire on April 30, 2022

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

Date	Liquid Sewage Sludge / Biosolids Hauled Off-site Gallons % Solids X Conv. Factor = Dry Tons				Dewatered Sewage Studge / Biosolids Hauled Off-site				Sewage Sludge / Biosolids Dewatered and Incinerated On-site		
		10 0000	X 0.0000417	= Dry Tons	Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons	Tons dewatered	X % Solids	Control of the Contro
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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	CITE
Site Name:	Kline's Septic	Harrisburg Sewer Plant	SITE 3
Municipality	Salunga	Harrisburg Sewer Flant	
County:	Lancaster		
DEP Permit Number:	101607	Dauphin	
Type of Material*		27198	
Dry Tons Disposal:	Liquid Biosolids	Liquid Biosolids	
Gallons Disposed:	0	0	
Type of Disposal/Use:*	0	0	
	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 falsification).

Prepared By:	Jeffrey L. Grosser
Title;	Manager

Signature

Data

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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	

JUNE 2022

NPDES Permit No. PA 0024457

This permit will expire on April 30, 2022

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

1			e / Biosolids Hauled Of			Sewage Sludge / E	liosolids Hauled Of	f-site		udge / Biosolids Dev 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
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			X 0.0000417				X 0.01				
			X 0.0000417				X 0.01				
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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. Gross	er	
Title:	Manager		

Signature:

Date: 11 3014 27, 20

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	4

NPDES Pomit No PA IIII

JULY.

This permit will apprount April 10, 1011

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

1	Liqu	Liquid Sewage Sludge / Biosolids Hauled Off-site		Dewatered :	Dewatered Sewage Sludge / Biosolids Hauled Off-site			Sewage Studge / Blosolids Dewatered and Incinerated On-site			
ate	Gailons	% Solids	X Conv. Factor	= Dry Tons	Tons dewatered studge	X % Solids	X 0.01	= Dry Tons	Tons dewatered	X % Solids	□ □ Dry Ton
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			TOTAL	0.000	1		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:	Kiline'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 Discosed:	0	0	
Type of Disposal/Use:*	Sewer Plant	Sewer Plant	
Hauler Name:	Kline's Septic	Kiline's Septic	

^{*} See Instructions for explanation

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Prepared By:	Jeffrey L. Grosser	
Title:	Manager	

Signature: _

57 24,2022

COMMUNITY OF PENNSILY ANIA 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	ewer Authority	AUGUST 2022
Municipality:	Halifax Borough	County: Dauphin	NPDES Permit No. PA 0024457
Watershed:	6-C		This permit will expire on April 30, 2022

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

	Liqu	id Sewage Siudge	e / Biosolids Hauled Ci	f-site	Dewatered :	Sewage Sludge / E	liosolids Hauled Ol	f-site		idge / Biosolids De 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
8/16/22	5,500	2.2	X 0.0000417	0.505			X 0.01				
8/17/22	5,500	2	X 0.0000417	0.528			X 0.01				
			X 0.0000417				X 0.01				
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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:	1.032075	0	
Galions Disposed:	11,000	C	
Type of Disposal/Use:*	Sewer Plant	Sewer Plant	
Hauler Name:	Kiine'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 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: DI CO NOV
Title:	Manager	Date: 3703507, 27, 2020

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				

SEPT. 2022

NPDES Permit No. PA 0024457
This permit will expire on April 30, 20

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

			/ Biosolids Hauled Of			Sewage Sludge / E	Biosolids Hauled O	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 Ton:
			X 0.0000417				X 0.01				
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			TOTAL:	0.000			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	0	
Gallons Disposed:	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: __

BUREAU OF WATER STANDARDS AND FACILITY REGULATION

SUPPLEMENTAL REPORT SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL

Facility Name: Municipality: Halifax Area Water and Sewer Authority

Halifax Borough County: Dauphin

Watershed:

6-C

OCTOBER

2022

NPDES Permit No. PA 0024457

This permit will expire on April 30, 2022

1			e removal events during e / Biosolids Hauled Of		Dewatered :	Dewatered Sewage Sludge / Biosolids Hauled Off-site				Sewage Sludge / Biosolids Dewatered and Incinerated On-site		
			X Conv. Factor	= Dry Tons	Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons	Tons dewatered	X % Solids	= Dry Ton:	
Date	Gallons	% Solids	AND DESCRIPTION OF THE PARTY OF	- Diy rond	7,0,70 @27,000		X 0.01					
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	U	1 #210/6:	TOTAL	0.000			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
	Kline's Septic	Harrisburg Sewer Plant	
Site Name:		Harrisburg	
Municipality	Salunga		
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, 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, information submitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information. See Pa. C.S. § 4904 (relating to unsworn 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:

JOON.

2027

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 Sew	er Authority	NOVEMBER 2022
Municipality:	Halifax Borough	County: Dauphin	NPDES Permit No. PA 0024457
Watershed:	6-C		This permit will expire on April 30, 202

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

1	Liqu	iid Sewage Sludge	/ Biosolids Hauled Of	f-site	Dewatered :	Sewage Sludge / E	Biosolids Hauled Of	f-site		idge / Biosolids Dew 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
			X 0.0000417				X 0.01				
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			X 0.0000417				X 0.01				
			X 0.0000417				X 0.01				
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		1	X 0.0000417				X 0.01			***************************************	
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		-	TOTAL:	0.000			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	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

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101

AA

Prepared By:	Jeffrey L. Grosser	Signature: Signature:
Title:	Manager	Date: OUNDEC 28, 2022

COMMONY DAMER OF A BINING A BEFANNIA

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 Sewe	er Authority	DECEMBER	2022
Municipality:	Halifax Borough	County: Dauphin	NPDES Permit No.	PA 0024457
Watershed:	6-C		This permit will exp	oire on April 30, 2022

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

			e / Biosolids Hauled Off			Sewage Sludge / E	Biosolids Hauled Of	f-site		idge / Biosolids Dev 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
			X 0.0000417				X 0.01				
			X 0.0000417				X 0.01		***************************************	***************************************	
			X 0.0000417				X 0.01				
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			X 0.0000417				X 0.01				
			X 0.0000417			1	X 0.01				-
			X 0.0000417				X 0.01				
12/29/22	5,400	2.0	X 0.0000417	0.450	T		X 0.01				
12/29/22	5,400	1.9	X 0.0000417	0.428			X 0.01				
12/29/22	5,400	1.9	X 0.0000417	0.428			X 0.01				
12/29/22	5,400	1.9	X 0.0000417	0.428			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				
	21,600	1.9	X 0.0000417				X 0.01				
			TOTAL:	1.734	T		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	1.733886	
Gallons Disposed:	0	21,600	
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: Dake Salvasson
Title:	Manager	Date: (100) JAN. 20, 2023

SLUDGE	GENERATION CALCULATION	
Facility Name: Halifax Wastewater Treatmen	nt Plant - Original Activated Sludge V	VWTP
Permit Number: PA0024457		
Date of Calculation: 3/10/2023		
Poqui	red Information For Calculation	
Average Daily Flow (mgd): 0.1405	Digester Capacity (gal):	42000
Influent BOD (mg/l): 138	%Solids of Outgoing Sludge:	
Effluent BOD (mg/l): 9.1	Monitoring Period (days):	301
	tewater Treatment Processes	
	ment process. Select a maximum of Primary Clarification	
Primary Clarification Conventional Activated Sludge	Contact Stabilization SBR	RBC <mark></mark> ABF □
Extended Aeration X		mall Plant with low SOR
Extended Actation	Theking Filter	(<500 gpd/sq ft)
	Operational Information	
BOD Removed (lbs/day): 151	TSS Removed (lbs/day):	98
	Digester Information	
	Type of Digester	
	the box beside the corresponding treatment process.	_
Aerobic Digestion X	Anaerobic Digestion	None
Sludge Feed Rate to Digeste	ers (gpd): 1569.57233	
Digester Hydraulic Detention Tim	e (days): 27	
Estimated Total Solids Reduc	etion (%): 0.35	
	Sludge Generation	
dry lbs/day 64	wet lbs/day	2127
dry tons/monitoring period 10	wet tons/monitoring period	320
gal/day 255	gal/monitoring period	76772
Amount of Sludae F	Reported as Being Generated by the	Facility
wet tons/monitoring	ng period 0	9
dry tons/monitorii	OR ng period 2.663	
	one of the above values. The remaining value should be	e "0".
Is the amount reported by the generato	r within 15% of the calculated value?	NO
	NO explanation:	LESS THAN 15% RANGE
What type of information was used to calcula	ate the above information: 2022 DMF	Supplemental Reports
	Dates used: 1.1.2022	TO <u>9.15.2022</u>
Name of person p	performing the calculation: Brenden N	Ailler Ailler

SLUDGE	GENERATION CALCULATION	
Facility Name: Halifax Wastewater Treatmen	nt Plant - 2022 Upgrade	
Permit Number: PA0024457	. 0	
Date of Calculation: 3/10/2023		
Peguin	red Information For Calculation	
Average Daily Flow (mgd): 0.1405	Digester Capacity (ga	al): 131000
Influent BOD (mg/l): 138	%Solids of Outgoing Sludg	
Effluent BOD (mg/l): 9.1	Monitoring Period (day	rs): 183
Was i Place an "X" in the box beside the corresponding treat	tewater Treatment Processes	cotion and one other treatment process
Primary Clarification	Contact Stabilization	RBC
Conventional Activated Sludge	SBR X	ABF
Extended Aeration	Trickling Filter	Small Plant with low SOR
_	3	(<500 gpd/sq ft)
	Operational Information	
BOD Removed (lbs/day): 151	TSS Removed (lbs/da	y): 128
	Digester Information	
-	Type of Digester	
	the box beside the corresponding treatment process	_
Aerobic Digestion x	Anaerobic Digestion	None
Sludge Feed Rate to Digeste	ers (gpd): 2565.64708	
Digester Hydraulic Detention Tim	` ' '	
Estimated Total Solids Reduc	etion (%): 0.4	
	Sludge Generation	
dry lbs/day 77	wet lbs/d	lay 3852
dry tons/monitoring period 7	wet tons/monitoring peri	iod 352
gal/day462	gal/monitoring peri	od 84512
Amount of Sludge F	Reported as Being Generated by th	ne Facility
wet tons/monitoria	ng period 0 OR	
dry tons/monitorin	ng period 1.619	
Is the amount reported by the generato	one of the above values. The remaining value should walk	
is the amount reported by the generato	NO explanation	
	onpariane	
What type of information was used to sale use	ato the above information.	MP Supplemental Penarta
What type of information was used to calcula	ate the above information: <mark>2022 Di</mark> Dates used: <mark>8.15.20</mark>	
Name of person n	performing the calculation: Brender	
rame of person p	entition and calculation.	

	Influent BOD (mg/L)	Effluent CBOD (mg/L)	Liquid Sludge Disposed Off-Site (dry ton)	Liquid Sludge Disposed Off-Site (gal)	% Solids
Jan	159	6.6	0.917	10,000	2.2
Feb	182	6.1	0.000	0	0.0
Mar	135	11.4	0.803	16,500	1.2
Apr	154	13.1	0.000	0	0.0
May	155	10.3	0.000	0	0.0
Jun	188	8.2	0.521	5,000	2.5
Jul	126	13.0	0.000	0	0.0
Aug	128	7.1	0.000	0	0.0
Sep	69	11.4	0.000	0	0.0
Oct	223	17.2	0.000	0	0.0
Nov	139	9.6	0.000	0	0.0
Dec	222	16.9	0.000	0	0.0
Tot	1880	130.9	2.241	31500	5.9
Avg	157	10.9	0.2	2625	2.0

ATTACHMENT E: Flow Meter Calibration Report







LRM, Inc

Instrumentation & Disinfection Systems

Startup Date 7/27/2022

1	SI PUMPING SC	DLUTIONS			X WWTP
1			Job Site	1	
E+H: E+H: Instru	ument Model No. FMU90-L21CA FDU90-RN2AB ument Loop:	111AA1A	Instrument S6004501 S6000701 Input Type	10E6 1123 e:	
	ary Signal Produ ARSHALL FLUM		Calibrated 0-1000 G	-	
Instru	ument Settings	Zero 2.673 FT	Span 1000 GPM		
			Calibration	n Data	
	Input %	Input Value	Output \	/alue	% Error After Calibratio
	0 %	0.00 GPM	4.00	mADC	00.00%
	50 %	500.00 GPM	12.00	mADC	00.00%
	100 %	1000.00 GPM	20.00	mADC	00.00%
Con	mments :				
		H FIELDCARE SOF Taken: START-UP		ANDARDS	



LRM, Inc

Instrumentation & Disinfection Systems

Startup Date 7/27/2022

ı	PSI PUMPING SC	DLUTIONS			AX WWTP
			Job Site		
				O CO Hamme	
Ins	trument Model No		Instrument	t S/N:	
	DRESS + HAUSE /4C1F-3LR1/0	R	S602CD1	6000	
Ins	trument Loop:		Input Type);	
WA	ASTE ACTIVATED	SLUDGE	MAGMETE	ER /	
Prir	mary Signal Produ	cer:	Calibrated	Range:	
MA	AG PRIMARY 6"		0-1000 GI	РМ	
		Zero	Span		
Ins	trument Settings	0 GPM	1000 GPM		
				1	
			Calibration	n Data	
	Input %	Input Value	Output \	/alue	% Error After Calibration
	0 %	0.00 GPM	4.00	mADC	00.00%
	50 %	500.00 GPM	12.00	mADC	00.00%
	100 %	1000.00 GPM	20.00	mADC	00.00%
[0					
C	omments:				
Eau	ipment Used: E+I	H FIELDCARE SOF	TWARE		
Equ	ipment Used: E+I	H FIELDCARE SOF	TWARE		
		H FIELDCARE SOF			
Adju	ustments / Actions				Date 7/27/



LRM, Inc

Instrumentation & Disinfection Systems

Startup Date

					1/21/2022
P	SI PUMPING SC	DLUTIONS		HALIFA	AX WWTP
			Job Site		
Instru	ument Model No.	•	Instrument	: S/N:	
	E+H: FMU90-L21CA111AA1A E+H: FDU90-RN2AB		S6004601 S6000801		
Instru	ument Loop:		Input Type		
EFFI	LUENT FLOW		ULTRASO	NIC	
Prima	ary Signal Produ	cer:	Calibrated	Range:	
6" PA	ARSHALL FLUM	E	0-1000 GF		
				ľ	
Instr	ument Settings	Zero	Span		
	-	2.284 FT	1000 GPM		
			Calibration	n Data	
	Input %	Input Value	Output V	/alue	% Error After Calibration
	0 %	0.00 GPM	4.00	mADC	00.00%
	50 %	500.00 GPM	12.00	mADC	00.00%
	100 %	1000.00 GPM	20.00	mADC	00.00%
Cor	mments :				
		H FIELDCARE SOFT		ANDARDS	
Consid	e Representative	e Mackenzie Cra	owford		Date 7/27/2

ATTACHMENT F: Consent Order And Agreement Progress Report









VIA ELECTRONIC DELIVERY

December 31, 2022

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

Re: NPDES Permit No. PA0024457

Consent Order & Agreement: Quarterly Progress Report Main Pumping Station and Wastewater Treatment Plant Halifax Area Water and Sewer Authority

Dear Mr. Ammon:

On behalf of the Halifax Area Water and Sewer Authority (HAWASA), Herbert, Rowland & Grubic, Inc. (HRG) hereby submits this Consent Order and Agreement (COA) Quarterly Progress Report in accordance with the requirements outlined in the April 20, 2018 COA executed by the Department and HAWASA.

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. HAWASA and the Department executed the above referenced COA to eliminate the overload condition at the Main Pumping Station. Modifications to the Main Pumping Station were completed as part of the WWTP Upgrade Project, which is currently nearing completion.

For ease in reporting HAWASA progress in meeting the Corrective Action schedule contained in the COA, this Progress Report provides the status of the Tasks which were identified in the Implementation Schedule contained in the HAWASA Corrective Action Plan (CAP) and has been updated to reflect the required compliance dates identified within the COA. This Progress Report also summarizes any new connections to the portion of the HAWASA system which are tributary to the overloaded sewerage facilities.

Implementation Schedule - Update

WWTP UPGRADE PROJECT CONSTRUCTION STATUS:

As indicated in previous COA Update Letters, the General Contractor for the WWTP
Upgrade Project has experienced substantial delays in procuring and receiving
shipments of construction materials during the project. These material delays are
attributable to ongoing supply chain disruptions related to the COVID-19 Pandemic and

to recent natural disasters. Numerous materials, including pipes, metals, and machined components were delayed. Of primary importance were delays in procuring fiberglass reinforced plastic (FRP) components integral to the biologic treatment process, which were critical path items needed prior to start-up of the SBR system. The FRP material supplier provided a letter to the General Contractor on August 12, 2021 indicating material delays were due to an event of force majeure. As of the date of this report, all outstanding materials have arrived at site. However, these delays had notable impacts on the construction schedule.

- ➤ To date, HRG has reviewed and approved time extension requests for the Project increasing the duration of Substantial and Final completion by 295 days to a total of 745 and 790 days respectively. These extensions were incorporated into Change Orders No. 1 3 which have been submitted to PA DEP and PennVest. This contract times modification places substantial completion on December 15, 2022 and final completion on January 29, 2023.
- Construction at the WWTP site has progressed rapidly over the last quarter. All WWTP unit
 process are fully operation and HRG anticipates performing a substantial completion
 inspection in the coming weeks. Site work and grading was completed to allow for a
 base coat of paving to be laid around the site to improve access during the winter
 months. Final site work will be completed in the spring when temperatures rise and
 seeding and final top coating can be completed.
- The WWTP Main Pumping Station, which is considered hydraulically overloaded and was one of the primary drivers behind the implementation of the CAP and the completion of the Project, has been successfully operating since its start-up in August 2022. The upgraded station captures all flow from the Front Street Interceptor and various WWTP return flows and is designed to handle a PIF of 300 gpm with a single pump in operation. Since it was put into operation, there have been no instances in which both pumps were called to operate due to high flow conditions.
 - ➤ On October 26, 2022, HRG met with PA DEP to discuss the status of the COA and the current system connection ban. The improvements to the Main Pumping Station have addressed the hydraulic overload condition that was one of the primary drivers of the CAP. Pump runtimes since start-up of the new Main Pumping Station will be provided separately for review.
- DEP completed a site visit to review the status of the construction on July 13, 2022 and provided the WWTP operations staff instructions on reporting effluent criteria, specifically data related to the new UV Disinfection system, on the eDMR website.
- Construction status updates will continue to be provided in future Progress Reports submitted by HAWASA.

HALIFAX TOWNSHIP SEWER EXTENSION STATUS (NOT REQUIRED UNDER COA):

In conjunction with the design of the WWTP Upgrade Project, HRG and HAWASA have been proceeding with efforts on the Halifax Township Sewer Extension Project. This Project is not mandated by the COA. However, the Part II Permit Application for the WWTP Upgrade Project includes capacity for the additional flows which will be generated by the construction of this sewer extension.

On October 12, 2022, bids were received for the three contracts associated with this Project. Given the favorable bid results, the HAWASA has elected to proceed with the project and Notices of Intent to Award have been issued to the low bidders. HAWASA is currently targeting settlement on the PENNVEST award in March 2023 and has been coordinating project specifics with PENNVEST staff. In December, HRG and HAWASA held a series of public meetings to discuss the implications of the sewer extension with residents.

The Implementation Schedule below is included in the HAWASA CAP; the required completion dates have been updated to reflect those contained in the COA. For the purpose of this Report, the "Status/Update" column has been updated to demonstrate HAWASA's compliance with the Implementation Schedule. Items in red text are updates since the last COA quarterly report submission.

IMPLEMENTATION SCHEDULE F						
[Taken from approved CAP and modified per the Corrective Action schedule included in the COA]						
TACK DECODIDEION	COMPLETION /	STATUS/				
TASK DESCRIPTION	SUBMISSION DATE	UPDATE UPDATE				
HAWASA and PA DEP Execution of Consent Order and Agreement	April 20, 2018	[Task Completed]				
Submit a Wastewater Treatment Plant Alternatives Review, Design Engineer's Report and an administratively and technically complete Uniform Environmental Report for the upgrade of the Plant and main pumping station Design Engineer's Report will include 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	December 31, 2018	[Task Completed; Wastewater Treatment Plant Alternatives Review & Design Engineer's Report was submitted to PA DEP on December 28, 2018; Categorical Exclusion request for WWTP Upgrade Project approved by PA DEP on December 31, 2019; Task Completed]				
Submission of administratively and technically complete Water Quality Management Part II Permit Application for the upgrade of the Plant and main pumping station	Within 180 Days of PA DEP approval of UER	[Task Completed; WQM Part II Permit Application, review fee and supporting documents were submitted to PA DEP on September 13, 2019; WQM Permit issued by PA DEP on March 12, 2020]				
Begin construction of the Plant upgrade in accordance with the Part II Permit	Within 205 Days of PA DEP issuance of Water Quality Management Part II Permit	[Task Completed - Contract Awards were issued by HAWASA on November 25, 2020. The Contract Times commenced on November 30, 2020. Substantial Completion to be achieved by February 23, 2022; Final Completion to be achieved by April 9, 2022.]				
Complete Construction	Within 705 Days of PA DEP issuance of Water Quality Management Part II Permit	Substantial Completion adjusted to 12/15/22 Final Completion adjusted to 1/29/23 Change Orders denoting this time extension have been submitted to PA DEP.				
Verify completion of construction by submission of the Sewage and Industrial Wastewater Facilities Construction Certification	Within 30 days of completed construction operations					

IMPLEMENTATION SCHEDULE FOR HAWASA WWTP UPGRADE						
[Taken from approved CAP and modified per the Corrective Action schedule included in the COA]						
	STATUS/					
TASK DESCRIPTION	SUBMISSION DATE	UPDATE				
Submission of quarterly Progress Reports until termination of		Quarterly Progress Report				
COA		submitted December 31, 2022.				
		Previous Quarterly Progress				
		Report Submitted October 7, 2022				

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 Pumping 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) until the hydraulic overload condition is eliminated. The improvements made to the Main Pumping Station as part of the WWTP Upgrade Project have increased its capacity substantially and eliminated the hydraulic overload at this station. Since start-up of the upgraded station in August there were no instances where the standby pump was called into operation to handle additional flow.

There have not been any new connections made within the area tributary to the Main Pumping Station as of the date of this Progress 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.

As discussed in previous Progress Reports, a new residential development along S.R. 147 across from the Halifax Area School District is being proposed for construction in Halifax Township. This parcel is identified in the Dauphin County GIS Parcel Viewer as 29-013-022 with an approximate size of 23.9 acres. This project is known as Sycamore Ridge and proposes the construction of 124 residential townhome units. Sanitary sewer service to Sycamore Ridge is proposed by the Developer via connection to the existing HAWASA collection system located in S.R. 147 at Manhole 172. This portion of the collection system is tributary to the overloaded Main Pump Station.

On October 26, 2022, HRG and PA DEP met to discuss the status of the WWTP Upgrade Project, the overload condition at the WWTP Main Pump Station, and the proposed Sycamore Ridge Development. Based on the outcome of that meeting and subsequent discussions with the developer, HRG anticipates that further plans for the Sycamore Ridge Development will be delayed until a planning module exemption can be requested following removal of the connection ban.

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

Sincerely,

HERBERT, ROWLAND & GRUBIC, INC.

Justin J. Mendinsky

Water & Wastewater Group Manager

JJM/rb 001650.0426

Enclosures

cc: HAWASA Board

Jeffrey Grosser, Operator Joseph D. Kerwin, Esq., Solicitor

HRG File