

EXHIBIT E



March 24, 2023
Ref. No. 123-02

Commonwealth of Pennsylvania
Department of Environmental Protection
Northwest Regional Office
230 Chestnut Street
Meadville, PA 16335

**Greenville Sanitary Authority
Greenville Sanitary Authority Wastewater Treatment Plant
NPDES Permit No. PA0027367
Chapter 94 Municipal Wasteload Management Report**

On behalf of Greenville Sanitary Authority, please find enclosed the Chapter 94 Municipal Wasteload Management Report for the Greenville Sanitary Authority Wastewater Treatment Plant for the operating year 2022.

The report has been uploaded to DEP OnBase (reference #98937). Hard copies of the report can be provided upon request.

If you have any questions or concerns, please feel free to contact our office.

Very truly yours,

KLH ENGINEERS, INC.

A handwritten signature in blue ink that reads "Kalee J. Murphey". The signature is written in a cursive, flowing style.

Kalee J. Murphey, P.E.

Enclosure

cc: Greenville Sanitary Authority

GREENVILLE SANITARY AUTHORITY

Chapter 94 Municipal Wasteload Management Report
Greenville Sanitary Authority Wastewater Treatment Plant
Operating Year 2022

KLH

A decorative graphic consisting of a thick, dark blue wavy line that starts under the 'K' and ends under the 'H', curving upwards at both ends.

ENGINEERS, INC

5173 CAMPBELLS RUN ROAD
PITTSBURGH, PA 15205-9733

Greenville Sanitary Authority
Mercer County, Pennsylvania

Greenville Sanitary Authority Wastewater Treatment Plant

Chapter 94 – Municipal Wasteload Management Report
Operating Year 2022

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Greenville Sanitary Authority

Mercer County, Pennsylvania

Wastewater Treatment Plant

**Chapter 94 – Municipal Wasteload Management Report
Operating Year 2022**

Executive Summary

In compliance with Section 94.12, of Chapter 94, Title 25 of the Pennsylvania Code and the Rules and Regulations of the Pennsylvania Department of Environmental Protection (PADEP), this report is submitted by the Greenville Sanitary Authority (Authority) as a summary of the loadings and conditions existing at the Wastewater Treatment Plant (WWTP), tributary sewage collection and conveyance sewer systems, and pump stations during the operating year 2022. In addition, this report includes a projection of the anticipated loadings at the WWTP for the next five years (2023-2027). PADEP forms and spreadsheets were utilized to complete the report.



Figure 1: Greenville Sanitary Authority WWTP Location

The WWTP is located in Hempfield Township and discharges to the Shenango River, as shown in Figure 1. The WWTP is owned by the Authority and operated under NPDES Permit No. PA0027367 pursuant to the terms of a lease agreement with the Borough of Greenville. A renewal permit was submitted to the PADEP in June 2022 and a draft permit is in development.

The WWTP serves the Borough of Greenville and portions of Hempfield and West Salem Townships. Municipal Wasteload Management Reports for Hempfield Township Municipal Authority and West Salem Township Municipal Sewage Authority can be found in Attachment [7].

In 1994, the WWTP underwent an expansion and upgrade of facilities to eliminate wet weather bypass flows and effect phosphorous removal. The project involved construction of new flocculating clarifiers, chlorine contact tank, chemical feed, solids handling and aeration facilities. Upgrades were performed on primary clarifiers, trickling filters and digesters. In 2004, new raw sewage grinders were installed to replace the aging comminutors. In 2018, the raw sewage grinders that were installed in 2004 were replaced with new raw sewage grinders. The upgraded WWTP can treat up to 4 MGD. The WWTP retained an Organic Design Capacity of 5,000 lbs BOD5/day.

Sewage bypasses occur only during extreme events of precipitation or mechanical malfunction of equipment. A manually closing gate was installed on the WWTP bypass in 2012 to eliminate false readings from the bypass meter (Sigma 950) that is no longer existing. The gate remains in a closed position and there is no intention to open it. The WWTP did experience a power outage on September 30th, 2022, for approximately six (6) hours, but no impact to the receiving river was seen. This occurrence was documented and submitted to the PADEP. See Attachment [10] for more information.

The WWTP has not had a major upgrade since 1994, and, though it is well maintained, it is reaching the end of its design life. The WWTP saw biological loadings during 2020 exceeding its organic design capacity. The Authority began the design for a WWTP upgrade in 2020. The upgrade will utilize the existing tankage for construction of a membrane bioreactor treatment system. The upgrade will also include a new pumping station and headworks building as well as a refurbishment of the WWTP's sludge digestion, dewatering, and disinfection processes.

The upgraded process will be designed for average flows of 4 MGD with the capability to handle a peak hourly flow of 10 MGD and a peak daily flow of 8 MGD. The predicted annual growth in EDUs does not suggest an increase in average flow is needed as it is anticipated Greenville Borough will not have major growth in the next 20 years. Any flows more than 10 MGD, up to 12 MGD, will flow into bypass storage tanks for subsequent treatment, though events of this magnitude are much less likely. The increase in EDUs predicted for the next 5 years for Hempfield and West Salem Townships are found in Attachment [7].

The Authority staffs the WWTP and conveyance system operations with two (2) certified operators and four (4) full time laborers. This allows for someone to be available for emergencies 24/7. The certified operators and their certifications are listed in Table 1 below.

Table 1: Certified Operator List

Certified Operator	Certification
Isaiah Vernon	Wastewater, Class A,E - Subclass 1,2,3,4 - #S22930
Steve Vosler	Wastewater Class B,E – Sub-class 1,2,3,4 - #T2520

According to the PADEP Chapter 94 Spreadsheet, the WWTP was not hydraulically or organically overloaded in 2022. No projections for hydraulic or organic overloading are expected in the next five years. Please see Attachment [1] for these projections.



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 INFORMATION	
Permittee Name: Greenville Sanitary Authority	Permit No.: PA0027367
Mailing Address: 183 Hamburg Road	Effective Date: January 01, 2018
City, State, Zip: Greenville, PA 16125	Expiration Date: December 31, 2022
Contact Person: Jasson Urey	Renewal Due Date: July 04, 2022
Title: Borough Manager	Municipality: Greenville
Phone: (724) 588-4193	County: Mercer
Email: jurey@greenvilleborough.com	Consultant Name: KLH Engineers, Inc.
CHAPTER 94 REPORT COMPONENTS	
<p>1. Attach to this report a line graph depicting the monthly average flows (expressed in MGD) for each month for the past 5 years and projecting the flows for the next 5 years. The graph must also include a line depicting the hydraulic design capacity per the WQM permit. <u>(25 Pa. Code § 94.12(a)(1))</u></p> <p>Check the appropriate boxes:</p> <p><input checked="" type="checkbox"/> Line graph for flows attached (Attachment 1)</p> <p><input checked="" type="checkbox"/> DEP Chapter 94 Spreadsheet used (Attachment 1)</p> <p><input type="checkbox"/> Section 1 is not applicable (report is for a collection system).</p>	
<p>2. Attach to this report a line graph depicting the monthly average organic loads (express as lbs BOD5/day) for each month for the past 5 years and projecting the organic loads for the next 5 years. The graph must also include a line depicting the organic design capacity of the treatment plant per the WQM permit. <u>(25 Pa. Code § 94.12(a)(2))</u></p> <p>Check the appropriate boxes:</p> <p><input checked="" type="checkbox"/> Line graph for organic loads attached (Attachment 1)</p> <p><input checked="" type="checkbox"/> DEP Chapter 94 Spreadsheet used (Attachment 1)</p> <p><input type="checkbox"/> Section 2 is not applicable (report is for a collection system).</p>	
<p>3. If the DEP Chapter 94 Spreadsheet was not used to determine projections, discuss the basis for the hydraulic and organic projections. In all cases, include a description of the time needed to expand the plant to meet the load projections, if necessary, and data used to support the projections should be included in an appendix to this report. <u>(25 Pa. Code § 94.12(a)(3))</u></p> <p>DEP Chapter 94 Spreadsheet was used to determine projections for hydraulic and organic projections. The WWTP is not projected to be hydraulically or organically overloaded in the next five (5) years.</p>	

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**)
- 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 sewer extensions occurred during the operating year of 2022. See Attachment 7 for tributary community information.

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))

The Authority regularly performs jetting of known trouble areas. There were six (6) sewer calls in 2022. The sewer jet was needed three (3) times. All other times were homeowner issues. See Attachment 8 for the Supplemental Completed Maintenance Report.

Overall system capacity is normally adequate. General cleaning to be done at: North 3rd St., Shenango St., Eagle St., North Race St., South Front St., North Second St., Donation Rd., and South Main St.

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:

See Attachment 2 and Attachment 10.

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 – 7)
 Discussion of condition of each pump station attached (**Attachment 2**)

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 3**)
 Industrial pretreatment report as required in an NPDES permit attached (**Attachment**)

9. Existing or Projected Overload.

Check the appropriate boxes:

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

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

- Corrective Action Plan attached (**Attachment 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 4**)

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

Annual CSO Report attached (**Attachment**)

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

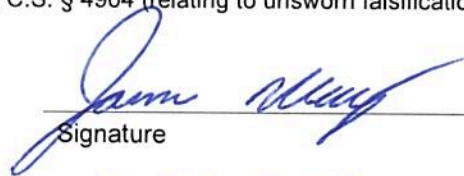
Flow calibration report attached (**Attachment 5**)

RESPONSIBLE OFFICIAL CERTIFICATION

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

Jasson Urey

Name of Responsible Official



Signature

(724) 588-4193

Telephone No.

3-23-2023

Date

PREPARER CERTIFICATION

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

Kalee J. Murphey, P.E.

Name of Preparer



Signature

(412) 494-0510

Telephone No.

3/16/2023

Date

ATTACHMENT 1

PADEP Chapter 94 Spreadsheet

Facility Name:

Permit No.:

Persons/EDU:

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

Existing Organic Design Capacity: lbs BOD5/day
 Upgrade Planned in Next 5 Years? Year:
 Future Organic Design Capacity: lbs BOD5/day

Monthly Average Flows for Past Five Years (MGD)

Month	2018	2019	2020	2021	2022
January	2.672	2.512	2.87	2.372	2.255
February	3.383	3.313	2.41	1.827	4.503
March	3.016	2.098	3.019	1.633	3.238
April	2.539	1.973	1.913	1.46	2.503
May	1.206	1.525	1.417	2.034	2.144
June	2.079	3.684	0.955	1.504	1.182
July	0.926	2.24	0.869	2.617	1.043
August	0.642	1.384	1.055	2.231	0.802
September	1.89	1.294	1.342	1.612	0.932
October	1.117	1.273	1.687	2.081	0.709
November	2.564	1.484	1.919	2.055	1.73
December	1.94	2.447	2.779	2.988	1.798

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

Month	2018	2019	2020	2021	2022
January	1,801	3,059	2,154	3,786	2,639
February	2,068	2,968	1,413	8,321	3,179
March	2,159	2,077	2,440	4,525	1,477
April	1,381	1,984	3,393	4,568	1,620
May	1,295	1,812	1,371	1,858	1,289
June	1,375	1,879	1,227	2,528	1,507
July	828	2,045	1,159	2,453	1,273
August	1,594	1,404	5,982	2,343	980
September	1,212	1,614	1,247	2,709	1,311
October	1,483	1,046	2,439	2,800	1,541
November	1,380	2,103	2,303	3,234	3,054
December	2,139	1,770	3,323	2,935	2,203

Annual Avg	1.998	2.102	1.853	2.035	1.903
Max 3-Mo Avg	3.024	2.641	2.766	2.375	3.415
Max : Avg Ratio	1.51	1.26	1.49	1.17	1.79
Existing EDUs	4,087.0	4,085.0	8,236.0	8,236.0	8,236.0
Flow/EDU (GPD)	488.9	514.6	225.0	247.1	231.1
Flow/Capita (GPD)	139.7	147.0	64.3	70.6	66.0
Exist. Overload?	NO	NO	NO	NO	NO

Annual Avg	1,560	1,980	2,371	3,505	1,839
Max Mo Avg	2,159	3,059	5,982	8,321	3,179
Max : Avg Ratio	1.38	1.54	2.52	2.37	1.73
Existing EDUs	4,087	4,085	8,236	8,236	8,236
Load/EDU	0.382	0.485	0.288	0.426	0.223
Load/Capita	0.109	0.138	0.082	0.122	0.064
Exist. Overload?	NO	NO	YES	YES	NO

Projected Flows for Next Five Years (MGD)

	2023	2024	2025	2026	2027
New EDUs	17.0	17.0	17.0	17.0	17.0
New EDU Flow	0.0058	0.0058	0.0058	0.0058	0.0058
Proj. Annual Avg	1.984	1.9898	1.9956	2.0014	2.0072
Proj. Max 3-Mo Avg	2.867	2.875	2.883	2.892	2.9
Proj. Overload?	NO	NO	NO	NO	NO

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

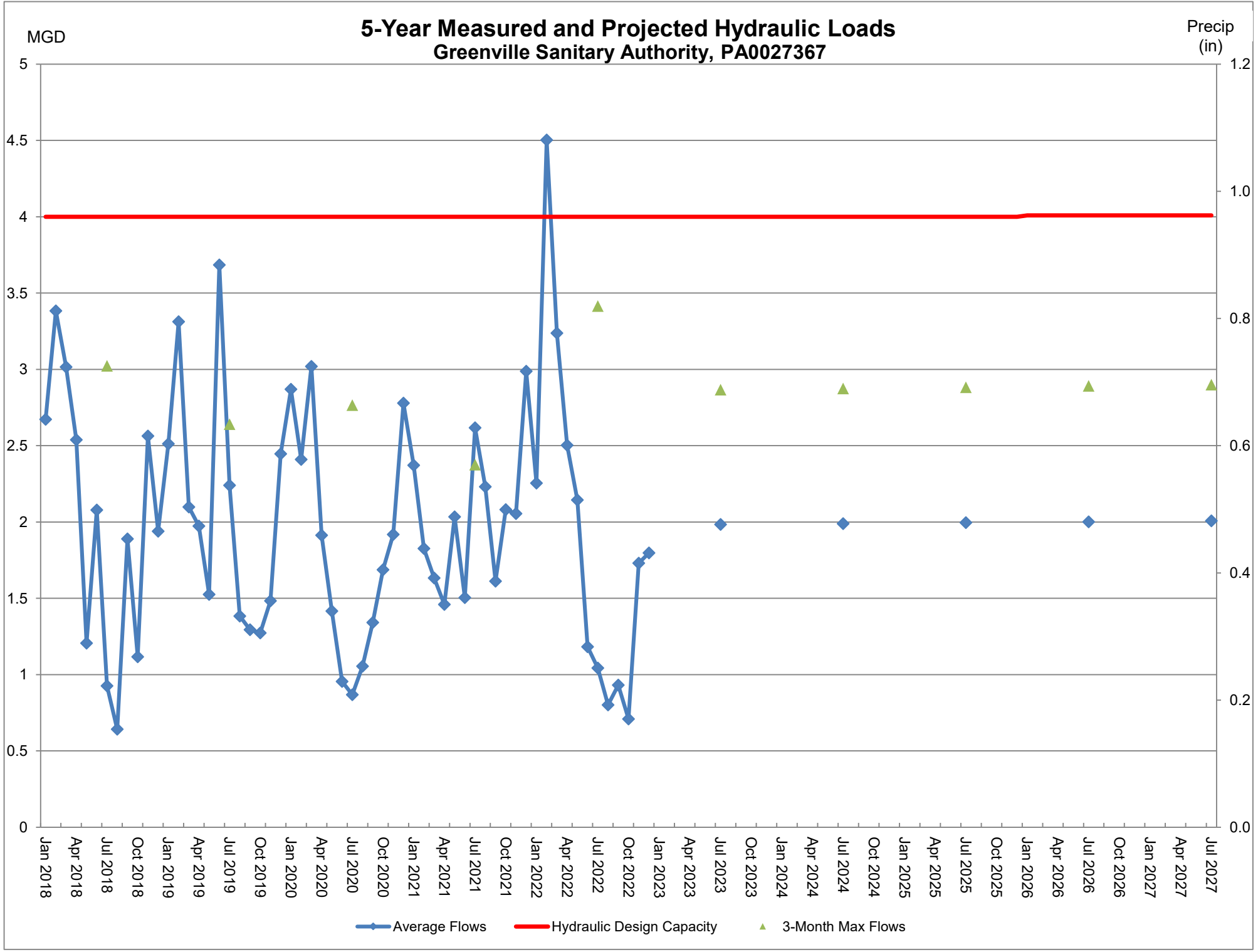
	2023	2024	2025	2026	2027
New EDUs	17	17	17	17	17
New EDU Load	6.131	6.131	6.131	6.131	6.131
Proj. Annual Avg	2,257	2,263	2,269	2,276	2,282
Proj. Max Avg	4,313	4,325	4,337	4,348	4,360
Proj. Overload?	NO	NO	NO	NO	NO

Show Precipitation Data on Hydraulic Graph?

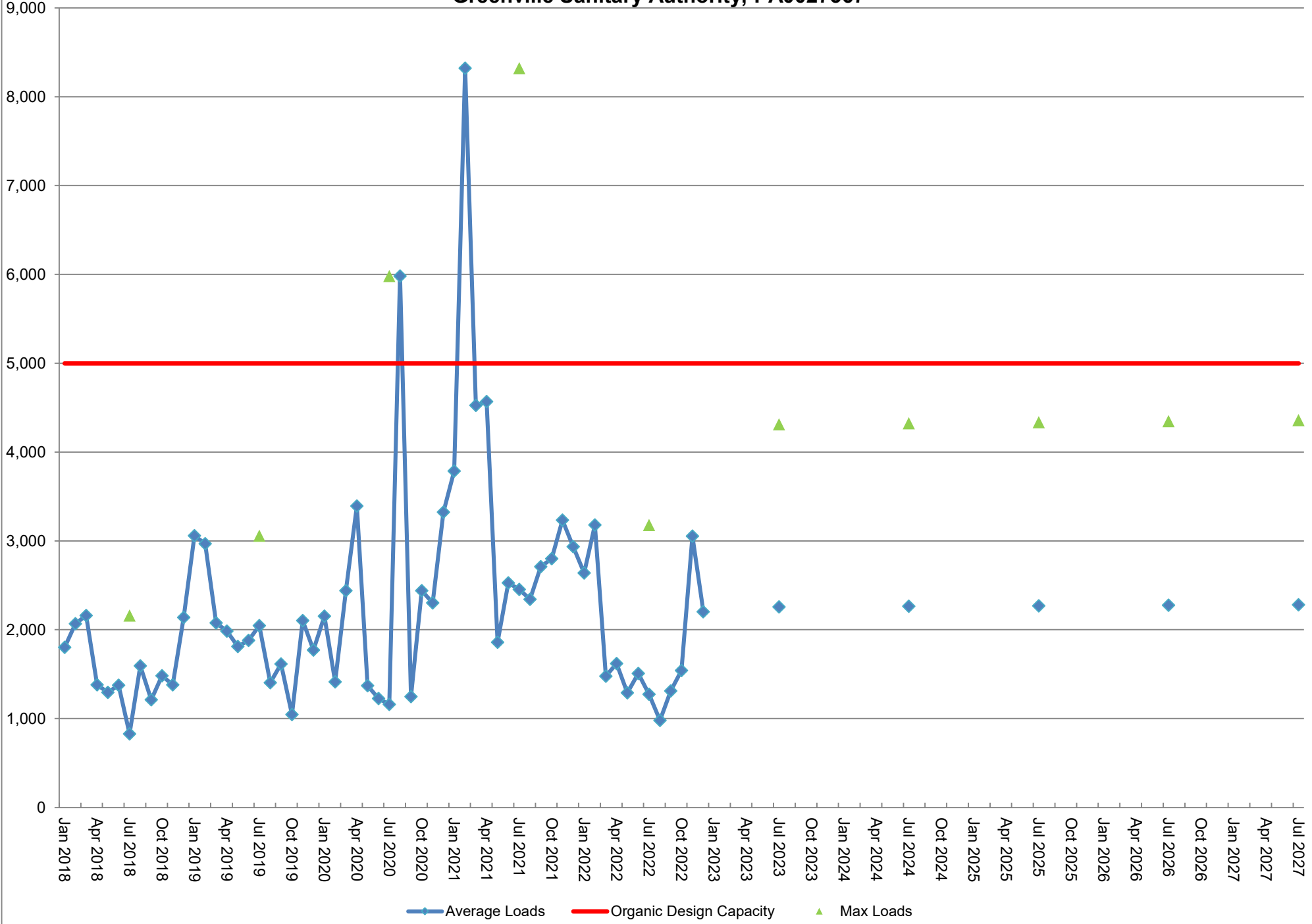
Total Monthly Precipitation for Past Five Years (Inches)

Month	2018	2019	2020	2021	2022
January	4.6	5.17	6.1	3.7	3.97
February	4.98	5.7	4.3	2.1	7.05
March	4.75	5.55	9.4	2.0	4.41
April	2.45	6.5	6.69	4.0	4.35
May	4.06	5.9	4.35	4.6	6.35
June	7.25	14.35	3.7	5.5	5.15
July	4.65	10.17	5.05	8.4	4.6
August	3.35	6.55	7.0	9.6	1.9
September	9.75	4.9	5.65	3.9	4.95
October	5.65	6.55	8.75	7.55	2.6
November	5.8	2.6	5.0	3.0	6.95
December	4.0	5.35	3.7	5.5	2.52

5-Year Measured and Projected Hydraulic Loads Greenville Sanitary Authority, PA0027367



5-Year Measured and Projected Organic Loads Greenville Sanitary Authority, PA0027367



ATTACHMENT 2
Pump Stations' Summary

PUMPING STATIONS

In accordance with § 94.12(a)(7)

The Authority owns and maintains three (3) pump stations located within the Borough of Greenville. These pump stations are summarized below.

Barrett Street Pump Station: Consists of two (2) E-1 grinder pumps. No capacity issues, sanitary sewer overflows (S.S.O.), or alarm calls. Replaced one (1) pump's electrical plug. Wet well was drained and cleaned.

Penn Ave. Pump Station: Consists of two (2) E-1 grinder pumps. No capacity issues, sanitary sewer overflows (S.S.O.). The line from the influent manhole to the wet well was jetted due to a blockage. Two (2) pumps were replaced. Wet well was drained and cleaned. Flushable wipes continue to pose an issue.

North Front Street Pump Station: No capacity issues, sanitary sewer overflows (S.S.O.), or alarm calls. Wet well was drained and cleaned.

The Authority owns and maintains 17 grinder pumps. There are 16 grinder pumps in West Salem Township and one (1) at the Sports Complex. 16 grinders are home units. One (1) pump was replaced on Orangeville Road.

The Authority also performs maintenance tasks for four (4) pump stations that are owned by West Salem Township Municipal Sewage Authority (WSTMSA). Table 2 below summarizes the WSTMSA pump station flows.

Rt. 18: One(1) power failure and three (3) high wet well alarms were recorded. Wetwell Pump #2 was changed out with a new pump. The station regularly handles normal and peak flows. The pump station is checked daily, and all data is recorded. The piping was modified to hook up a portable pump in case of an extended power loss or other catastrophic event occurs. A bacteria product is added along with enzymes for grease control. The pump station is in fair condition and is well maintained.

Brownies: Control Panel malfunctioned on 1/27/2022 due to cold weather being -14 degrees Fahrenheit. There was an unbalanced electrical current from 6/13/22- 6/14/22 due to an issue at a substation which caused one (1) pump to be offline. The other pump was still operational during this time. Semiannual maintenance was completed on the emergency generator which included replacement of the fan belt and thermostat. The station regularly handles normal and peak flows. The pump station is checked daily, and all data is recorded. This pump station has an ongoing grease issue that may need to be addressed. The pump station is in good condition overall and is well maintained.

Kinsman: Five (5) power failures, three (3) high wet well alarms, and one (1) SSO were recorded. The SSO occurred on 2/17/22 due to snow melt and rain. One (1) leg of three (3) phase power was lost. A Godwin Pump was setup to pump at the station until Penn Power was able to restore full power. It should be noted that flow increases dramatically during rain events but no additional SSO's were recorded. The station regularly handles normal and peak flows. The pump station is

checked daily, and all data is recorded. The pump station is in fair to good condition and is well maintained.

St. Paul's: Five (5) pump issues were corrected. One (1) Electrical Panel low temperature alarm was recorded. Semiannual maintenance was completed on the emergency generator which included replacement of the fan belt. This pump station has an ongoing grease issue that may need to be addressed. This pump station has an ongoing grease issue that may need to be addressed. Pump station is in fair to good condition and is well maintained.

Table 2: WSTMSA Pump Station Summary

PS	Rt. 18	Brownies	Kinsman	St. Paul's
Mo.	Flow (GPD)	Flow (GPD)	Flow (GPD)	Flow (GPD)
Jan.	11,017	45,499	7,054	42,643
Feb.	53,638	77,905	39,702	75,072
Mar.	34,015	61,055	21,427	57,522
Apr.	22,533	58,003	20,667	56,445
May	19,712	47,618	15,049	45,305
June	9,543	46,579	5,401	44,215
July	7,463	40,913	5,488	39,992
Aug.	8,048	38,847	4,522	37,821
Sept.	8,520	38,720	5,135	37,508
Oct.	8,656	41,718	5,143	62,390
Nov.	14,280	48,109	10,047	46,823
Dec.	25,575	46,331	11,786	43,945
Yr. Av. GPD	18,583	49,275	12,618	49,140
Max. Mo. GPD	53,638	77,905	39,702	75,072
Condition	Fair	Good	Good	Good

ATTACHMENT 3
Industrial Waste Report

INDUSTRIAL WASTE

In accordance with § 94.12(a)(8)

The Authority does not have an EPA-approved Industrial Pretreatment Program. Industrial wastes are discharged to the Authority's sewer system under a permit agreement that requires certain concentration parameters to be monitored. The Authority's permit for discharge of leachate by Waste Management of Greenville immediately follows this page.

The permit reserves the right to revoke or revise the permit at any time should the discharge inhibit the Authority's ability to treat wastewater sufficiently to meet the effluent limits required by the WWTP's NPDES permit. The permit also states that the Authority may not discharge any prohibited wastes into the sanitary sewer as defined by Ordinance No. 1209 of the Borough of Greenville. There are currently no updates for new discharges according to Waste Management.

Permittee Waste Management of Greenville

Permit No. O4 (RENEWAL)

**BOROUGH OF GREENVILLE
NON-DOMESTIC WASTEWATER DISCHARGE PERMIT**

In accordance with all of the terms and conditions of ORDINANCE NO. 1209 of the Borough of Greenville and also with a any applicable provision of Federal or State law or regulation:

Permission is Hereby Granted To:

WASTE MANAGEMENT OF GREENVILLE
88 OHL STREET
GREENVILLE PA 16125

Classified by SIC No. 4953

**For the contribution of LEACHATE AND WASH WATER. TRANSFER STATION.
into the Borough of Greenville sewer lines at OHL STREET**

This PERMIT is granted in accordance with the Application filed on MAR 14 1994 in the office of the Borough of Greenville and in conformance with the plans, specifications and other data submitted to Borough of Greenville in support of the above application, all of which are filed with and considered as part of this PERMIT, together with the above application, all of which are filed with and considered as part of this PERMIT, together with the following named conditions and requirements:

1. Addendum No. 1 Wastewater Limitations
2. Addendum No. 2 Monitoring Schedule, and Special Conditions
3. Addendum No. 3 Compliance Schedule

BOROUGH OF GREENVILLE

Non-Domestic Wastewater Discharge Permit

ADDENDUM NO. 2

PERMIT NO. 04 RENEWAL

Permittee: WASTE MANAGEMENT OF GREENVILLE

MONITORING SCHEDULE

1. City Disposal Services shall monitor flow from transfer station monthly for the following parameters: Flow, BOD, COD, Suspended Solids, and pH.
2. This Permit may be revised or revoked at any time by the Borough in order to meet any requirement or discharge limit placed upon the Borough by PA DEP, or USEPA
3. An Enforcement limit ("E") limit may be placed upon any pollutant included in this permit if, in the opinion of the Borough, it is being discharged in such quantity that it is resulting in inhabitation of treatment processes at the Sewage Treatment Plant, or passing through the plant in amounts in violation with any federal, or states, stream criteria or NPDES permit limits in the Boroughs NPDES permit.
4. The Permittee is advised that certain wastes are prohibited to be discharged into the sanitary sewer under Ordinance No. 1209 of the Borough of Greenville. The Permittee may not discharge any prohibited wastes into the sanitary sewer under this Permit.
5. The fee for the services rendered under this permit shall be \$387.50 per quarter.

BOROUGH OF GREENVILLE
Non-Domestic Wastewater Discharge Permit

ADDENDUM NO. 3

PERMIT NO. 04 (Renewal)

Permittee: Waste Management of Greenville

COMPLIANCE SCHEDULE

1. Monitoring reports shall be submitted to the Borough monthly.

This PERMIT may be revoked or changed by the Borough of Greenville from time to time in accordance with the provisions of the Ordinance No. 1209.

Effective this 1st day of August, 2018.

Expires the 1st day of August, 2023.

Manager

Borough of Greenville

Receipt of this Permit is hereby acknowledged this _____ day of _____, 20 ____.

Company

Signature

Title

Borough of Greenville

Non-Domestic Wastewater Discharge Form

Permittee: WASTE MANAGEMENT OF GREENVILLE PERMIT NO. 04 RENEWAL

The Limitations shown on this PERMIT apply to:

- 1 Regulated process Water System
- 2 Total Waste Stream (cross out Inapplicable condition)

	Limitations on wastewater strength			Monitoring Requirements (E,SV,SC)
	Max. Conc. (mg/l) 24 hour flow proportional Composite Sample	Maximum Instantaneous Concentration (mg/l)	Monthly Average Mass Limit Pounds per Day	
Aluminum-dissolved (Al)	X			SV
Antimony (Sb)				
Arsenic (As)	X			SV
Barium (Ba)				
Boron (B)				
Cadmium (Cd)	X			SV
Chromium-total (Cr)	X			SV
Chromium-hexavalent (CR-+)				
Cobalt (Co)				
Copper (Cu)	X			SV
Cynaide (CN)	X			SV
Fluoride (F)				
Iron (Fe)				
Lead (Pb)	X			SV
Manganese (Mn)				
Mercury (Hg)	X			SV
Nickel (N)	X			SV
Total Toxic Organics (TTO)				
Selenium (5e)	X			SV
Silver (Ag)	X			SV
Titanium-dissolved (Ti)				
Zinc (Zn)	X			SV
Total Kjeidahl Nitrogen (TKN)	X			SV
Oil & Grease (Petroleum and/or Mineral)				
MBAS				
Total Dissolved Solids				
Temperature-maximum (degrees C)				
pH-maximum (pH units)				
PH-minimum (pH units)	X			SV
Biochemical Oxygen Demand	X			SV
Chemical Oxygen Demand	X			SV
Suspended Solids	X			SV
Flow -(MGD)	X			SV

E-Enforcement Monitoring
 SV-Surveillance Monitoring
 SC-Surcharge Monitoring

Effective Date: August 1, 2018
 Expiration Date: August 1, 2023

ATTACHMENT 4

Sewage Sludge Management Inventory

SEWAGE SLUDGE MANAGEMENT INVENTORY

The Authority disposes of the sludge produced to the Carbon Limestone Landfill in Lowellville, Ohio. Table 3 is a summary of the sludge hauled from the Greenville Wastewater Treatment Plant in the operating year of 2022. The Landfill disposal license is included in Attachment 6.

Table 3: Annual Biosolids Production 2022

Month	Tons Dewatered	Dry Tons	% Solids
Jan.	52.49	9.21	17.5%
Feb.	12.72	2.29	18.0%
Mar.	24.11	4.40	18.2%
Apr.	21.73	8.69	40.0%
May	37.70	8.39	22.3%
June	38.11	24.30	63.8%
July	38.80	22.70	58.5%
Aug.	11.62	6.65	57.2%
Sept.	21.15	8.80	41.6%
Oct.	0	0	N/A
Nov.	24.91	9.99	40.1%
Dec.	47.28	8.52	18.0%
Annual Total	330.62	113.94	
Annual Average	27.55	9.50	33%

Solids Management (Sludge) Calculator

This worksheet calculates the expected sludge volume that should be produced by various treatment processes over a one-year period. Enter data into green cells - hit the Tab key to move between cells. Red cells are calculated.

Facility Name: **Greenville Sanitary Authority WWTP** Permit No.: **PA0027367**
Enter Date Enter Date

Evaluation Period: **1/1/2022** to **12/31/2022**

Design Flow: **4** MGD Actual Annual Average Flow: **1.903** MGD

Type of Biological Treatment Process: **Trickling Filter** Treatment Factor: **1**

Type of Digestion Process: **Anaerobic Digestion, HDT = 20** Digestion Factor: **0.75**

Total Population Served by Treatment Plant: **10,830**

Average Annual Influent BOD5 Load (per Ch. 94 Report): **1,839.0** lbs/day

Average Annual Influent BOD5 Load (Expected based on Population): **1,841.1** lbs/day *(Population x 0.17)*

% of Influent BOD5 Load per Ch. 94 Report / Influent Load Expected: **99.9%** *(Influent Load per Ch. 94 Report / Influent Load based on Population)*

Average Annual Effluent Concentration of **CBOD5**: **3.69** mg/L **Assume 4.428 mg/L BOD5**

Average Annual Pounds (lbs) of BOD5 Discharged: **70.28** lbs/day *(Actual Flow x Effluent BOD5 Concentration x 8.34)*

Influent BOD5 Load per Person per Day (based on Ch. 94): **0.170** *(Influent BOD5 Load per Ch. 94 Report / Population - 0.17 to 0.22 is typical)*

Pounds of BOD5 Removed (based on Ch. 94): **1,768.7** lbs/day *(Influent BOD5 Load per Ch. 94 Report - BOD5 Discharged)*

Pounds of BOD5 Removed (based on Population): **1,770.8** lbs/day *(Influent BOD5 Load Expected based on Population - BOD5)*

Sludge Removed from Treatment Plant (Previous Year): **113.9** Dry Tons = **227,880** Dry lbs

Sludge Production and Wasting Calculations

Based on Chapter 94 Report

	1,768.7	BOD5 Removed / Day (lbs)
X	1	Treatment Factor
	1,768.72	Daily Solids Production (lbs)
X	0.75	Digestion Factor
	1,326.54	Daily Digested Solids (lbs)
X	365	Days per Year
	484,188	Solids Generated / Year (lbs)
-	227,880	Solids Actually Wasted / Year (lbs)
	256,308	Difference (lbs)
	47%	% of Expected Volume Wasted <i>(85 - 115% is generally acceptable)</i>
	32.9%	Percent Solids of Wasted Solids
	176,462	Volume of Solids to Remove Annually (gallons)
-	83,051	Volume of Solids Actually Removed Annually (gallons)
	93,411	Difference (gallons)

Based on Population

	1,770.8	BOD5 Removed / Day (lbs)
X	1	Treatment Factor
	1,770.82	Daily Solids Production (lbs)
X	0.75	Digestion Factor
	1,328.12	Daily Digested Solids (lbs)
X	365	Days per Year
	484,763	Solids Generated / Year (lbs)
-	227,880	Solids Actually Wasted / Year (lbs)
	256,883	Difference (lbs)
	47%	% of Expected Volume Wasted <i>(85 - 115% is generally acceptable)</i>
	32.9%	Percent Solids of Removed Solids
	176,672	Volume of Solids to Remove Annually (gallons)
-	83,051	Volume of Solids Actually Removed Annually (gallons)
	93,621	Difference (gallons)

ATTACHMENT 5

Flow Meter Calibration Certificate



KWM CONTROLS INC.

P.O. Box 430 Corrojo, PA 15105 412-276-4227 Fax: 412-276-7433

Certificate of Calibration

Customer Greenville WWTP
125 Main St.
Greenville, PA 16125

Date 3-23-22

Type: Eastech
Serial#: 16364
Model#: 2210
Location: Effluent

Flow Range: 0-10 MGD
Primary Element: 161" rectangular weir
Signal: 4-20maDC
Chart recorder 24 hour, X 1000

	Pre Calibration	Post Calibration	Flow Reading
Reading thru primary element	1.48"	1.39"	1.14 MGD
	1.82	1.5"	1.28 MGD
0%	4.23 maDC	4.00 maDC	0 MGD
25%	8.26 maDC	8.00 maDC	2.5 MGD
50%	12.29 maDC	12.00 maDC	5.0 MGD
75%	16.31 maDC	16.00 maDC	7.5 MGD
100%	20.35 maDC	20.00 maDC	10 MGD

Additional comments :



KWM CONTROLS INC.

P.O. Box 430 Carnegie, PA 15106 412-276-4227 Fax 412-276-7488

Certificate of Calibration

Customer Greenville WWTP
125 Main St.
Greenville, PA 16125

Date 11-2-22

Type: Eastech
Serial#: 16364
Model#: 2210
Location: Effluent

Flow Range: 0-10 MGD
Primary Element: 161" rectangular weir
Signal: 4-20maDC
Chart recorder 24 hour, X 1000

	Pre Calibration	Post Calibration	Flow Reading
Reading thru primary element	-.38" 0"	0" 0"	0 MGD 0 MGD
0%	4.23 maDC	4.00 maDC	0 MGD
25%	8.26 maDC	8.00 maDC	2.5 MGD
50%	12.29 maDC	12.00 maDC	5.0 MGD
75%	16.31 maDC	16.00 maDC	7.5 MGD
100%	20.35 maDC	20.00 maDC	10 MGD

Additional comments :. The effluent flow was calibrated at zero flow. The meter at the pump station was reading flows even at zero flow. The meter was checked and calibrated and seems to be holding zero flow.

ATTACHMENT 6
2022 Landfill License

2022



2022

Solid Waste Facility License Municipal Solid Waste Landfill

License Expires December 31, 2022

Facility: Carbon Limestone Landfill LLC CID: 28728 8100 S Stateline Rd Lowellville, OH 44436	Licensee: Carbon Limestone Landfill, LLC 8100 South Stateline Road Lowellville, OH 44436
--	---

This license has been issued in accordance with the requirements of state law, is subject to revocation or suspension for cause, and is not transferable without the consent of the approved Board of Health and the Director of the Ohio Environmental Protection Agency.


Licensing Authority: Mahoning County General Health District

Conditions of Licensure:

The Licensee hereunder, its agents, employees, and all others in active concert with said licensee, including the facility owner and operator, shall be subject to and shall comply with the following conditions of this license:

1. All applicable requirements of Ohio Revised Code Chapters 3734, 3767, 6111, and 3704 and rules adopted thereunder.
2. Permits-to-install, plans, operational reports, other authorizing documents, and administrative and judicial orders applicable to this facility and as approved by the Director of the Ohio Environmental Protection Agency.
3. This license is conditional upon payment of the applicable fee to the Board of Health or the Director, as appropriate, within 30 days after issuance.
4. By applying for and accepting this license, the licensee specifically consents in advance and agrees to allow the Director, the Health District, or an authorized representative, to enter upon the licensee's premises at any reasonable time during the construction and/or operation of the facility for the purpose of inspecting, conducting tests, collecting samples, or examining records or reports pertaining to construction, modification, installation, or operation of the facility. The licensee hereby acknowledges and agrees that any and all rights of access granted herein shall not be deemed to be unreasonable or unlawful under Ohio Revised Code Sec. 3734.07. The licensee, its agents, employees, and all others in active concert with said licensee shall maintain and operate the facility to which the license pertains in a sanitary manner so as not to create a nuisance, cause or contribute to water pollution, or create a health hazard. This license shall not be construed to constitute a defense to any civil or criminal action brought by the State of Ohio or any duly authorized representative thereof to enforce the provisions of Chapters 3734, 3767, 6111, or 3704 of the Ohio Revised Code, or regulations issued thereunder. Issuance of this license does not relieve the licensee of the duty to comply with all applicable federal, state, and local laws, regulations and ordinances.

If Checked, Additional Conditions Apply to This License (See Back, or Attachment)



Health Commissioner

12/16/21

Date Issued

ATTACHMENT 7

Tributary Communities' Municipal Wasteload Management Reports



*Excellence Delivered **As Promised***

January 17, 2023

Kalee J. Murphy, P.E.
KLH Engineers, Inc.
5173 Campbells Run Road
Pittsburgh, PA 15205

Subject: West Salem Township Municipal Sewage Authority
2022 Wasteload Management Report Data

Dear Ms. Murphy:

On behalf of the West Salem Township Municipal Sewage Authority, we are transmitting herewith information regarding the Greenville Sanitary Authority's Wasteload Management Report for year 2022.

Should you require any additional information, please do not hesitate to contact us.

Sincerely,

GANNETT FLEMING, INC.

A handwritten signature in black ink, appearing to read 'D. Goncz', with a long horizontal line extending to the right.

DANIEL J. GONCZ, P.E.
Vice President

Attachment

cc: WSTMSA

Gannett Fleming, Inc.

554 South Erie Street • Mercer, PA 16137

t: 724.662.2402 • f: 724.662.2459

www.gannettfleming.com

OPERATING YEAR 2022 MUNICIPAL WASTELOAD MANAGEMENT REPORT

Instructions: Please provide information as completely as possible. Attach additional pages if necessary.

1. General Information

Name of Municipality: West Salem Township Municipal Sewage Authority

Address: P.O. Box 310
Greenville, PA 16125

Telephone: (724)588-9838

Name of Person Completing Response: Daniel J. Goncz, P.E

Company: Gannett Fleming, Inc.

Address: 554 South Erie Street
Mercer, PA 16137

Telephone: (412)503-4526

2. Population, Hydraulics, and Organic Loads

Year	EDUs	Population	Estimated Flow (gpd)	Estimated Raw Sewage BOD (lbs/day)
2022 (Actual)	571	1450	145,000	247
2023 (Est.)	573	1455	145,500	247
2024 (Est.)	575	1461	146,100	249
2025 (Est.)	577	1466	146,600	249
2026 (Est.)	579	1471	147,100	250
2027 (Est.)	581	1476	147,600	251

3. Industrial Waste

Are industrial wastes discharged into your sewer system? Yes _____ No X

Discuss your municipality's program for surveillance and monitoring of industrial waste discharges into the sewer system during the last year.

Customer base is residential, small business and light fabrication. There are no industrial customers connected to the sewer system.

Describe specific problems in the sewer system known to be caused by industrial waste discharges and summarize any steps being taken to alleviate or eliminate the problems.

-N/A-

Please attach a copy of the ordinance or regulation governing industrial waste discharges to the sewer system or a copy of the amendments adopted during the past year if it has not been previously permitted.

MUNICIPAL WASTELOAD MANAGEMENT REPORT (*Continued*)

4. System Condition

Describe your sewer system condition.

Good condition being built new in 2001.

Describe sections of sewer where capacity is exceeded or will be exceeded in the next five years.

None known

Describe your program for monitoring flows in the sewers. State if it included periodic flow gauging or Smoke and dye testing in sewers suspected of having illegal storm connections.

See Greenville Borough

Describe your routine maintenance programs. Indicate if it is on a regular basis or as-needed. List the number of employees (full and part-time) and provide a list of equipment available for inspection and maintenance work.

Greenville Borough is responsible for the maintenance of all sewage facilities that have been installed and are owned by West Salem Township Municipal Sewage Authority

If applicable, briefly describe your program for maintenance and control of diversion chambers and indicate how often they are inspected.

See Greenville Borough

Describe any work being performed to reduce infiltration/inflow or any extraordinary sewer rehabilitation in the past year.

See Greenville Borough

MUNICIPAL WASTELOAD MANAGEMENT REPORT (Continued)

5. Sewage Pump Stations

Name	Condition	Design Capacity (gpm)	Present Maximum Flow (gpm)	Projected 2-Year Maximum Flow (gpm)
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-SEE GREENVILLE BOROUGH FOR FLOW RATES-

6. Sewage Extensions

Development/Extension Name	Population Served	Status *
-----------------------------------	--------------------------	-----------------

-NONE -

* Constructed, Approved for Construction, Proposed

There were no new sewer extensions during past calendar year.



Ms. Kalee Murphey, PE
KLH Engineers, Inc.
5173 Campbells Run Road
Pittsburgh, PA 15205

**Hempfield Township Municipal Authority
Wasteload Management Report for Operating Year 2022**

Our Reference
106126

Two Allegheny Center
Nova Tower 2, Suite 1301
Pittsburgh PA 15212
United States of America

T +1 (412) 497 2900
F +1 (412) 497 2901
www.mottmac.com/americas

February 2, 2023

Dear Ms. Murphey:

On behalf of the Hempfield Township Municipal Authority (HTMA), Mott MacDonald has prepared this letter for the purpose of furnishing the necessary information relative to completion of the 25 PA Code Chapter 94 Municipal Wasteload Management Report for Operating Year 2022, as requested by the Greenville Sanitary Authority.

1. GENERAL INFORMATION

The address of HTMA is 278 South Mercer Street, Greenville PA 16125. The phone number is 724-588-5032.

The HTMA sewage system currently consists of approximately 102,000 lineal feet of terra-cotta and PVC collector sewers ranging in size from 8-inch to 10-inch and appurtenant manholes. There is also a section of 2-inch pressure sewer for grinder pump operations in the Greenlee Estates residential development off Methodist Road. The HTMA sewer system was principally constructed in 1969, and since that time, numerous developer-built sewer extensions have been constructed. There is also a section of 2-inch pressure sewer located near the intersection of Williamson Road and Donation Road that extends to the end of the line on Donation Road.

The sewer system is currently in good condition. There are no sections of the sewer where the capacity is currently exceeded or expected to be exceeded in the next five years. There are no diversion structures or pump stations associated with the sewer system.



2. HTMA ACTIVITIES DURING 2022

A. Developer Built Sewer Extensions and New Service Connections During 2022

There were no developer-built sewer extensions constructed in 2022. There were no residential or commercial connections in 2022.

B. Inter-Municipal Agreement

The Inter-Municipal Agreement dated December 2006, between HTMA and the Greenville Sanitary Authority for the treatment of HTMA sewage flows remained in effect as written.

C. Infiltration/Inflow Reduction Efforts During 2022

Hempfield Township has an Ordinance No. 68-5 that prohibits the connection of any roof drains and foundation drains to the sewer system or the introduction of any spring water, surface water, or any sewage or industrial waste from any property other than that for which a permit is issued.

There were no specific infiltration/inflow studies conducted in 2022.

D. Hydraulic Overload Conditions

The HTMA sewer system is not hydraulically overloaded. There was a single overflow event during 2022 on Route 58 near the bowling lanes. The cause was attributed to a grease buildup. The sewer section was jetted, and no problems occurred afterward.

3. INDUSTRIAL WASTE DISCHARGERS

There are no industrial waste dischargers to the HTMA sewer system. As such, there were no problems in the sewer system during 2022 that were attributed to industrial users. The Authority would become aware of any new industrial users through the planning module approval process.

4. SEWER SYSTEM REHABILITATION

There were no sections of the sewer system that required rehabilitation in 2022.

5. PREVENTIVE MAINTENANCE

Preventative maintenance is typically administered through the five-member sanitary authority board. The board either solicits proposals and awards the work to private contractors who specialize in infrastructure piping repairs or employs work forces from the Township Road Department. Preventative maintenance includes routine inspection and repairs/rehabilitations of the sanitary sewer system, and any inspections or maintenance and repairs that may become necessary due to unforeseen events.

HTMA has a preventive maintenance program in place that involves televising, cleaning, pressure testing and grouting of all main lines on an approximate six-year rotation. The sewer system is broken down into twelve subsections. HTMA generally evaluates one or two subsections per



year; therefore, each subsection gets attention every six to seven years. The procedures are performed by outside contractors after a public bidding process.

The annual preventive maintenance project was advertised for bids in early 2022, however the project only received a single bid. The Hempfield Township Municipal Authority opted to rebid the project in the fall of 2022. The low bid contractor requested to postpone the project until the spring of 2023 to avoid freezing conditions with their equipment. The project notice to proceed was issued on January 31, 2023.

6. ANTICIPATED FLOWS FOR THE NEXT FIVE (5) YEARS

There are a total of 1,175 physical connections to the HTMA sewer system. The total daily flow associated with the HTMA system remained essentially the same as in 2021 at approximately 0.29 MGD.

The following is an account of estimated flows that may be added to the HTMA sewer system during the next five (5) years:

Description or Name of Development	Projected EDUs	Projected EDUs	Projected EDUs	Projected EDUs	Projected EDUs
	2023	2024	2025	2026	2027
Residential Connections	3	3	3	3	3
Commercial Connections	5	5	5	5	5
Totals	8	8	8	8	8

The information presented herein is intended to assist you in completion of the 25 PA Code Chapter 94 - Municipal Wasteload Management Report. If any further assistance is necessary, please contact me, or Keith Hittle, Chairman of the HTMA.

Sincerely,

Linda French
 Project Scientist
 T 412.497.2912
Linda.French@mottmac.com

/lf
 cc: Keith Hittle – HTMA
 Kevin Pugliesi – Mott MacDonald

ATTACHMENT 8

Supplemental Completed Maintenance Report

Significant Maintenance Completed at Greenville WWTP in 2022		
2022		
Date	Item	\$
01/08/22	New Electrical Pump Controller Installed for #2 EFF water pump	\$640.45
01/28/22	New Complete Spray Shower Header & Filter Belt for GBT	\$4,698.45
01/31/22	New Heater for Chlorine Room	\$809.00
02/07/22	Semi Annual E. Generator Maintenance	\$955.00
02/28/22	New gas Chlorinator System	\$5,473.00
03/14/22	Fixed Leakng Main Waterline in Administration building	\$2,500.00
06/02/22	Installed new chlorinator System	\$8,987.00
06/27/22	Northwest Elec. Troubleshooting Plant after power outage	\$345.00
07/18/22	Chatfields well drilling Effluent Water Pump water Hammer	\$775.43
07/25/22	Cleveland Bros. TP. E Gen Troubleshoot & New Batteries	\$1,585.51
08/09/22	Shot Sand for Glasshouse Drying Bed & Drying Beds	\$2,000.00
08/09/22	Vaughan Recirculstion Chopper Pump Rebuild	\$8,280.00
09/02/22	Replaced both Well Tanks with new fiberglass Tanks	\$4,300.00
09/16/22	Purchased Flex Paste to patch flocculator weirs.	\$580.19
10/31/22	Preventative Maintenance on Treatment Plant Boiler	\$994.50
11/02/22	KWM Contols Calibrating Effluent Flow	\$525.00
11/15/22	Downie Company Plumbed in new Chlorne Ejector line	\$248.00
11/15/22	Rebuilt Netzch Screw Pump	\$8,345.00
11/17/22	2 New Shafts for Mudd & Eff Valve. In South Chlorine Contact Tank	\$350.00
12/20/22	New Influent Chart Recorder with Totalizer	\$3,995.00
Total		\$56,386.53

Significant Maintenance Completed on Greenville SS Collection Sys.		
2022		
Date	Item	\$
01/25/22	Filter Fan for St Paul's Pump Station Electrical Panel	\$237.00
02/07/22	Semi annual E Generator maintenance St Paul's & Brownies	\$2,096.68
03/17/22	Hydro Jetted Forced Main Line to Penn Ave Pump Station	\$375.00
03/17/22	Tepco Troubleshoot Penn Ave Pump Station	\$1,307.02
04/21/22	MH insert raisers & MH Covers	\$1,830.04
06/08/22	Purchased Munox for grease control for W.S. Pump Stations	\$2,610.73
06/13/22	Northwest electric Troubleshooting Pumps kicking out at station	\$310.00
08/18/22	Purchased MH riser rings and MH covers	\$7,889.28
08/18/22	Purchased MH Frame & Covers, riser doughnuts & Mastick	\$4,360.00
08/19/22	Purchased Munox for grease control for W.S. Pump Stations	\$2,610.73
09/02/22	New Belts on E Gens @ Brownies & St Paul's	\$1,590.00
09/02/22	New Thermostat for St. Paul's E Gen.	\$403.00
09/14/22	Purchased restock 12", 10", 8", & 6" PVC Sewer Pipe	\$2,915.00
10/07/22	Purchased Chin for Root Rat to cut roots in bigger pipe	\$313.00
11/09/22	Replace fan belt on E. Gen. @ st. Paul's & Brownies & replaced thermostat	\$1,993.00
12/08/22	NW Electric troubleshoot Rt. 18 Pump Station. Wired up new Pump	\$200.00
	Total	\$31,040.48

ATTACHMENT 9
Corrective Action Plan

CORRECTIVE ACTION PLAN

In accordance with § 94.12(a)(9)

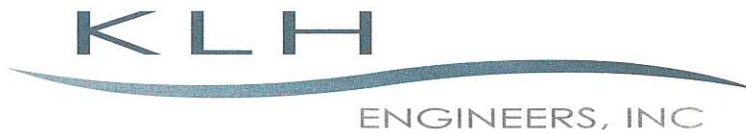
The Greenville Sanitary Authority has approved the design of a treatment plant upgrade to begin. The upgrade will expand the treatment plant's capacity to handle both peak hydraulic and organic loading. The upgrade will also refurbish and replace existing equipment and structures ensuring that no violations occur due to failure of the aging equipment onsite. Further information regarding the plant upgrade was discussed in the executive summary of this 2021 Chapter 94 report.

The design of the treatment plant upgrade will proceed as per the WWTP Basis of Design Report submitted to the Greenville Sanitary Authority in April of 2019. The report is available upon request. The design will follow all recommendations per the PADEP Domestic Wastewater Facilities Manual to meet the regulated discharge limits as per the Authority's NPDES Permit.

On December 27th, 2021, the Greenville Sanitary Authority was granted a Consent Order and Agreement (COA) between the Authority, Commonwealth of Pennsylvania, Department of Environmental Protection, and Greenville Borough. This COA was executed solely for Greenville Borough and the Authority to complete an evaluation of the existing chlorine disinfection system and report the findings from the plant. The Borough and the Authority must attempt to implement a plan to optimize the performance of the disinfection system and to minimize the total chlorine residual concentration at the plant's effluent in the evaluation report. This includes providing a schedule for the estimated time of change.

The COA states Greenville Borough and the Authority must submit semi-annual progress reports regarding the upgrade and these upgrades must be completed and implemented by January 1, 2026. A Part II Permit Application for the Wastewater Treatment Plant Upgrade was submitted to the PADEP on October 3, 2022, under PADEP reference number 71453. Also, a Semi-Annual Progress Report was submitted to the PADEP as per the COA on January 23, 2023.

A copy of the Semi-Annual Progress Report is attached for reference.



January 23, 2023
Ref. No.: 123-98

Mr. Shawn Kiskadden
Pennsylvania Department of Environmental Protection
Clean Water Program
230 Chestnut Street
Meadville, PA 16335

Re: Consent Order and Agreement
Semi-Annual Progress Report
Greenville Sanitary Authority
Mercer County

Mr. Kiskadden:

**Greenville Borough Sanitary Authority
Semi-Annual Progress Report**

Please find the attached semi-annual progress report for the above referenced Consent Order and Agreement. This report covers the period of July 1, 2022 through January 1, 2023.

The attached report reflects work completed by the Greenville Sanitary Authority and KLH Engineers, Inc. for the reporting period.

If you need additional information, please contact either of the undersigned.

Sincerely,

KLH ENGINEERS, INC.

GREENVILLE SANITARY AUTHORITY

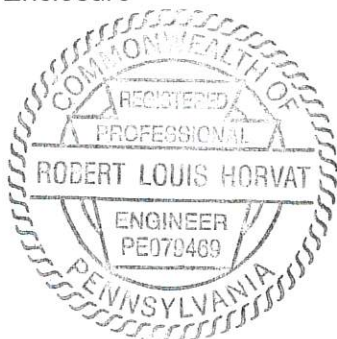
A handwritten signature in blue ink, appearing to read "R. Horvat", is written over a circular blue stamp. The stamp contains the text "ROBERT HORVAT, P.E." and is partially obscured by the signature.

Robert Horvat, P.E.

A handwritten signature in blue ink, appearing to read "Jonathan Bailey", is written over a circular blue stamp. The stamp contains the text "JONATHAN BAILEY, CHAIRPERSON" and is partially obscured by the signature.

Jonathan Bailey, Chairperson

Enclosure



123-98 Semi-Annual Report Transmittal Letter_RH_cjc_01.24.23

**SEMI-ANNUAL PROGRESS REPORT
GREENVILLE WASTEWATER TREATMENT PLANT
GREENVILLE SANITARY AUTHORITY**

REPORTING PERIOD
FROM: July 1, 2022 to January 1, 2023

Task Description	Proposed Start Date	Actual Start Date	Proposed Completion Date	Actual Completion Date	% of Task Complete	Comments
1. Design Wastewater Treatment Plant Upgrades and Improvements			January 1, 2023	September 2, 2022	100%	
2. Submit for Part II Permit Application			February 1, 2023	October 4, 2022	100%	WQM Permit Application No. 4322408
3. Begin Construction on WWTP Upgrades and Improvements	January 1, 2024		January 6, 2026		0%	

Based on the above information, are you in compliance with the approved schedule? Yes No

Greenville Sanitary Authority Official _____ Title _____

Signature  _____ Date 1/26/23

ATTACHMENT 10
Non-Compliance Submissions



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

NON-COMPLIANCE REPORT

Facility Name: GREENVILLE SANI AUTH
County: Mercer

Begin Date: 02/17/2022
Municipality: Greenville Borough

End Date: 02/18/2022
Permit Number: PA0027367

Sanitary Sewer Overflows and Other Unauthorized Discharges*

Incident Start Date	Incident End Date	Date and Time Discovered	Substance Discharged	Event Location	Volume (gal)	Duration (hrs)	Receiving Waters	Impact On Waters	Cause Of Discharge	Date and Time DEP Notified Orally	Comments
02/17/2022	02/18/2022	02/17/2022 09:02	Sewage	Kinsman Rd. Pump Station	7000(Est)	18(Est)	Ditch to Creek to Big Run creek	None Observed	Hydraulic overload in sewer line	02/17/2022 10:02	I put under Impact on waterways - None Observed. I did not see any solids, oil or anything. Looked like clean water. We do have really bad I&I out at the Kinsman Rd. Pump Station. Everytime it rains the flow increases dramatically. So with the big snow melt & 2in of rainfall added, the Pump Station couldn't keep up.

Other Permit Violations*

Non-Compliance ID	Non-Compliance Type	Comments
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Comment Details

Comments	Operator Name	Operator Certification Number	Operator Contact Number
	Isaiah Vernon	S22930	(724)-813-1101

Submission Information

*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your 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 your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).

Submitted By GreenPort User: ivernon
Email Address: ibv12789@yahoo.com

Submitted By Full Name: Isaiah Vernon
Date: 02/18/2022



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

NON-COMPLIANCE REPORT

Facility Name: GREENVILLE SANI AUTH
County: Mercer

Begin Date: 09/30/2022
Municipality: Greenville Borough

End Date: 09/30/2022
Permit Number: PA0027367

Sanitary Sewer Overflows and Other Unauthorized Discharges*

Incident Start Date	Incident End Date	Date and Time Discovered	Substance Discharged	Event Location	Volume (gal)	Duration (hrs)	Receiving Waters	Impact On Waters	Cause Of Discharge	Date and Time DEP Notified Orally	Comments
09/30/2022	09/30/2022	09/30/2022 07:09	Sewage	Greenville WWTP outfall	260750(Est)	6(Est)	Shenango River	None Observed	Other	09/30/2022 09:09	Caused from a power outage. A car sideswiped a ambulance, the ambulance took out a power pole that is connected to the Greenville WWTP. I highly doubt we discharged that much sewage. I just took the previous days flow divided it by 24hrs and multiplied it by 6 for 6hrs of flow. We have lower flows so the detention times in the tanks were good. The Effluent looked fantastic still. I did turn up the chlorine to kill any fecals or bacteria during this event. Just in case. I turned it back down to normal once power came back on.

Other Permit Violations*

Non-Compliance ID	Non-Compliance Type	Comments

Comment Details

Comments	Operator Name	Operator Certification Number	Operator Contact Number
The Effluent looked fantastic the whole time during this event.	Isaiah Vernon	S22930	(724)-813-1101

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Submitted By GreenPort User: ivernon
Email Address: ibv12789@yahoo.com

Submitted By Full Name: Isaiah Vernon
Date: 09/30/2022