

EAST GOSHEN MUNICIPAL AUTHORITY

May 9, 2022

7:00 PM

1. CALL TO ORDER/PLEDGE OF ALLEGIANCE/MOMENT OF SILENCE

- a. Ask if anyone will be taping the meeting

2. CHAIRMAN'S REPORT/OTHER MEMBERS REPORTS

3. SEWER REPORTS

- a. Director of Public Works Report.
b. Pennoni Engineer's Report.
c. Big Fish Environmental Report

4. APPROVAL OF MINUTES

- a. April 11, 2022

5. APPROVAL OF INVOICES

Pennoni Invoice #1117370	\$ 3,426.25
Pennoni Invoice #1117371	\$ 1,876.25
Pennoni Invoice #1117373	\$ 1,283.50
Deckman Invoice #4202	\$ 8,632.00 paid 4/14

6. LIAISON REPORTS

7. FINANCIAL REPORTS

- a. April Financial Report – No financial report this month, Dave is on vacation.

8. OLD BUSINESS

- a. Maillie audit of financial statements
b. Article for the summer newsletter
c. UV Replacement Engineering Budget (Mike Ellis)

9. 2022 Goals:

Goal	Status
Ridley Creek Plant Compliance	January, February, March & April were in compliance and met all requirements *Note DEP Annual Insp.
Continue to Monitor Upgrades at WGSTP and Westtown Way Pump Station	On – going
Continue to Implement Infiltration and Inflow for the Sewer System	On-going
Caustic Soda Project	Equipment order
Replace sewer line Hershey Mill Estate trunk line replacement	Engineer will bring you up to date under old business. Public Works dug test holes for Pennoni 12-6-2021
Hunt Country Pump Station Mag Meter	On Hold
Hunt Country Pump Station Muffin Monster Replacement	On Hold
Hunt Country Pump Station Bypass Pump	On Hold
Three new meters for Ridley Creek Collection	Hibberd Lane is on line. Ridley Creek Plant is the next meter, in the process of replacing the meter at the plant. <ul style="list-style-type: none"> Ridley Meter and manhole have been ordered (Delivery 3 months)

10. NEW BUSINESS

- a. Sewer extension study

11. CAPACITY REQUESTS

12. ANY OTHER MATTER

13. CORRESPONDENCE AND REPORTS OF INTEREST

14. PUBLIC COMMENT

15. ADJOURNMENT

EAST GOSHEN MUNICIPAL AUTHORITY
EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE, WEST CHESTER, PA 19380-6199

To: Municipal Authority
From: Mark Miller
Re: May 9, 2022 Monthly Report

Monthly Flows: The average daily flow to West Goshen was 706,755 per day.

Meters: The meters were read on a daily basis with no problems to report for the month.

C.C. Collection: The pump stations were checked on a daily basis; wet wells were washed down, oil was checked in the generators. We received a complaint of a sink hole behind #8 School Lane. Upon further investigation we found that the pipe had pulled out of the hub. We excavated that lateral and made the repair. We received an odor complaint from a resident on Glenbrook Lane we found that the odor was from the neighbor's mulch.

R.C. Collection: The pumping stations were visited on a daily basis. The wet wells were washed down and the oil was checked in the generators.

Ridley Creek Plant: The new meter pit has been ordered as well as the Caustic Soda Equipment.

Alarms: We responded to 19 alarms for April.

PA One Calls: We responded to over 88 PA One Calls for the month April.

Monthly Rainfall: 7.15 inches of rain for the month of April.

Lateral repairs or Caps: 6 caps were replaced in April.

EAST GOSHEN MUNICIPAL AUTHORITY
ENGINEER'S REPORT
May 4, 2022

Ridley Creek Sewage Treatment Plant (RCSTP)

- Caustic Soda Conversion – We are coordinating with the chemical supplier for tank fill pipe sizing needs and will obtain an updated quote for the tank (with adjusted tank vent, fill line, and suction penetration sizes) from Pyrz Water accordingly for Township execution.
- UV Disinfection System – Glasco is preparing the design submittal, which we expect to receive for review in the next couple of weeks.

The overall lead time for the Glasco equipment is approximately 5 months (including submittals) from contract execution on April 8, so we expect equipment delivery around September 2022. The installation of the system and other electrical and controls work is tentatively planned to occur in late fall-early winter once awards for the Commonwealth Financing Authority (CFA) Local Share Account (LSA) grants are announced. Bid documents for the mechanical and electrical construction contracts will be finalized this summer for bidding to occur in fall; the schedule will be refined over the next couple months pending updates on the CFA's schedule for grant award announcements.

- NPDES Permit Renewal – The attached permit renewal was officially issued, effective April 1, 2022 and runs through March 31, 2027.

Ridley Creek Collection System Permanent Meters

- No activity since our last report.

Westtown Way Pump Station

- HRG provided the following update: Excavation and subgrade preparation for the exterior electrical pad has been completed, and interior work such as initial pump removal tasks has also commenced. Unsuitable soils and concrete deposits were encountered underground for the electrical pad and had to be removed and replaced with suitable materials. A change order is expected.

All equipment is currently expected to be delivered on schedule with the exception of the electrical switchboard which is tentatively delayed until early 2023. The switchboard delay may extend the entire project since they may not be able to install the new VFDs, and thereby install new pumps, until the switchboard is installed. The entire project may therefore be extended until mid-2023. The contractors have been asked to provide updated schedules at the next Township progress meeting later this month.

Sanitary Sewer Pipe Rehab

- Supplee Valley – No activity since our last report.
- Hershey's Mill Estates – We previously submitted the GP-11 "Stream Obstructions" plans and permit application to DEP on March 8 via email and again on April 1. Per DEP request a few weeks thereafter, we resubmitted in a different format through their online system on April 27 for them to initiate the formal review. They confirmed the same day that the review has now been scheduled.

Since a LSA grant application was submitted for this project, construction contracts cannot be awarded if/until the grant is "approved". We therefore currently plan to bid the project in the late fall-early winter with construction projected in early to mid-2023.

- Ridley Creek Exposed Sewer Rehab – There is a ductile iron sewer main exposed in the Ridley Creek stream bed immediately north of N. Boot Road near Bellingham. We initiated preparation of a draft DEP emergency General Permit application to encase the pipe in concrete and add riprap to the immediately upstream stream bed. We also performed the PNDI environmental search, which returned a requirement to perform a bog turtle habitat survey. The PNDI Receipt is attached. We are coordinating with a 3rd party "Qualified Bog Turtle Surveyor (QBTS)" to provide a quote to conduct the survey. If the QBTS does not identify habitat within 300 feet, approval from the US Fish and Wildlife Service (USFWS) is not required. The emergency permit application will be submitted to PADEP upon clearance of the bog turtle habitat.

I&I Program

- No activity since our last report.

New Connections

- Sewer Extension Study – No activity since our last report.

Industrial Pretreatment Ordinance

- No activity since our last report. As discussed at the May 2021 MA meeting, a headworks study with sampling at the RCSTP can be conducted to set contaminant limits.

END OF REPORT



Executive Summary

The Ridley Creek sewage treatment plant outfall 001 achieved compliance with the permit discharge limitations for the month of April and May 2022. All supplemental reports were submitted for the month of April with the DMR. Discharge to the Applebrook irrigation lagoon remained in service. Chemical usage utilized for pH and total alkalinity remained consistent with previous months. Aluminium sulfate solution volumes were elevated daily dosages at a daily average of 76.7 as compared to the previous month at 68.1 gpd to achieve phosphorus removal. No significant mechanical or operational issues were observed during operation of sludge dewatering equipment or SBR treatment process. There were no odor complaints during the month.

Treatment Process Operation

Table 1 illustrates the final effluent composite sample data reported for outfall 001 for April 2022 DMR.

Table 1

April 2022- Final Effluent - Outfall 001											
NPDES Permit Discharge Limitations	Flow	CBOD ₅		TSS		NH ₄ -N		Phosphorus, Total		Fecal Coliform	
	MGD		lbs/		lbs/		lbs/		lbs/		Geo
	Average	mg/L	month	mg/L	month	mg/L	month	mg/L	month	Geo Mean	Mean
	0.75	20	125	10	131	7.0	44	0.5	3.0	200	1,000
		40		15							
Sample Date											
April 5, 2022	0.267	2.0	4.5	6.0	13.4	0.10	0.22	0.14	0.31	27	1.4314
April 12, 2022	0.277	2.0	4.6	9.5	21.9	0.10	0.23	0.10	0.23	5	0.6990
April 19, 2022	0.393	3.5	11.5	6.5	21.3	0.10	0.33	0.10	0.33	79	1.8976
April 26, 2022	0.312	2.0	5.2	4.0	10.4	0.10	0.26	0.10	0.26	1	0.0000
Average	0.312	2.4	6.4	6.5	17	0.10	0.26	0.11	0.28	28	1.0070
Minimum	0.267	2.0	4.5	4.0	10.4	0.10	0.22	0.10	0.23	1	0.0000
Maximum	0.393	3.5	11.5	9.5	22	0.10	0.33	0.14	0.33	79	1.8976

Compliance with the NPDES discharge permit was achieved during April¹. The monthly average total phosphorus was reported as 0.11 mg/L as compared to the permit limitation of 0.5 mg/L. The TSS samples were consistently in single digits and well below the weekly maximum of 15 mg/L. The monthly average TSS was reported as 6.5 mg/L as compared to the discharge limitation of 10 mg/L. The TSS weekly averages are presented below in Table 2.

¹A new NPDES permit was issued and became effective beginning April 1, 2022.

Table 2

April 2021 Final Effluent Weekly TSS Averages	
Week 2	6.0 mg/L
Week 3	9.5 mg/L
Week 4	6.5 mg/L
Week 5	4.0 mg/L

The final effluent test results demonstrate that the biological treatment process performed well during March. Sequencing batch reactors (SBRs) numbered 2, 3 and 4 were in service. Process monitoring of each SBR included ammonia as N, nitrite as N, Nitrate as N, COD, SSV, MLSS and total phosphorus. Daily analysis of the final effluent flow equalization grab sample for total phosphorus is ongoing. Sample collection and analysis of the influent wastewater collected at the influent pump station wet well is ongoing.

Discharge to the Applebrook irrigation lagoon, outfall 002 continued through April.

Table 3 presents the available pollutant data for the Applebrook discharge reported as outfall 002 on the April 2022 DMR.

Table 3

February 2022 - Applebrook - Out Fall 002											
NPDES Permit Discharge Limitations	Flow	CBOD₅		TSS		NH₄-N		Phosphorus, Total		Fecal Coliform	
	MGD		lbs/ month		lbs/ month		lbs/ month		lbs/ month		Geo Mean
	Average	mg/L		mg/L		mg/L		mg/L		Geo Mean	Mean
	0.135	25		30		7.0	44	0.5	3	200	1,000
		40		45							
April 5, 2022	0.0467	2.0	0.78	6.0	2.34	0.10	0.04	0.14	0.05	27	1.4314
April 12, 2022	0.0416	2.0	0.69	9.5	3.30	0.10	0.03	0.10	0.03	5	0.6990
April 19, 2022	0.0429	3.5	1.25	6.5	2.33	0.10	0.04	0.10	0.04	79	1.8976
April 26, 2022	0.0477	2.0	0.80	4.0	1.59	0.10	0.04	0.10	0.04	1	0.0000
Average	0.0447	2.4	0.88	6.5	2.4	0.10	0.04	0.11	0.04	28	1.0070
Minimum	0.0416	2.0	0.69	4.0	1.6	0.10	0.03	0.10	0.03	1	0.0000
Maximum	0.0477	3.5	1.25	9.5	3.3	0.10	0.04	0.14	0.05	79	1.8976

The influent wastewater pollutant concentrations and loading entering the wastewater treatment facility generally remained within the design concentration and organic loading values. The monthly average weekly concentrations were generally observed to be less than the design parameters for the treatment process.

Table 4 presents the available pollutant data for the influent wastewater collected at the doghouse manhole during April 2022.

Table 4

April 2022 - Influent Wastewater											
Design Basis	Flow	BOD ₅		TSS		NH ₄ -N		TKN, mg/L		Phosphorus, Total, mg/L	
		mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
	MGD Average	335	2,098	320	2,001	32	200	48	301	9.1	57
Sample Date											
April 5, 2022	0.496	79	326	300	1,240	31.1	129	60.5	250	5.48	22.7
April 12, 2022	0.469	215	842	180	705	26.3	103	40.3	158	4.09	16.0
April 19, 2022	0.593	212	1,048	300	1,484	20.8	103	53.7	266	1.79	8.9
April 26, 2022	0.346	332	959	120	347	34.3	99	50.9	147	8.91	25.7
Average	0.4761	209	794	225	944	28	108	51.4	205	5.1	18.3
Minimum	0.3463	79	326	120	347	21	99	40.3	147	1.8	8.9
Maximum	0.5930	332	1,048	300	1,484	34	129	60.5	266	8.9	25.7

The foam on the SBR surface reduced to approximately 15% to 50% coverage of the surface area. The foam thickness is approximately 3 to 4 inches with a light to medium brown color. These conditions may contribute to a decrease in clarity within the final effluent post flow equalization basins; however, the clarity is improved after passing through the disc filters. The operation strategy is to lower the MLSS to maintain a F:M ratio of 0.06 while ensuring the ammonia effluent discharge concentration remains within the seasonal limit of 2.5 mg/L.

PA DEP

Bill Collins from PADEP was on site on May 3, 2022, to conduct an annual inspection. No violations were observed or recorded. The inspection report is attached,

Pennoni Associates

Received the new NPDES permit effective April 1, 2022

Chemical Usage:

April 2022		
Chemical	Daily Average	Total Monthly
Soda Ash, pounds	300	9,300
Aluminium Sulfate solution, gal	76.7	2,300
Centrifuge sludge dewatering, gallons	13,145 ²	314,770

²The centrifuge is not operated on a daily basis throughout the month.

Flow data:

April 2022			
Flow Meter Location	Total Volume for Month, MG	Average Daily Flow, gpd	Daily Maximum Flow, gpd
Influent Wastewater to Screening Building*	15.149	504,967	1,219,170
Influent Wastewater to SBRs*	15.290	509,670	783,616
Internal Recycle**	1.4376,331	46,334	140,082
Treated Effluent to Disc Filters	15.236	507,861	788,864
Final Effluent Discharge	10.031	334,000	619,000
Applebrook Golf Course	1.430	47,655	59,312

During April, the average monthly influent wastewater flow measured at the “field” flow meter was 504,967 gallons/day as compared to the influent flow into the SBRs as 509,670 gallons/day. The difference between the daily averages is 4,703 gpd. These values are considered typical as the flows to the SBR should be greater due to including all the internal recycle flows, however, the field influent meter is considered to produce inaccurate measurements. There was no observed SSO and the influent flow into the SBRs is consistent with the flows into the disc filters.

Minor Preventative Maintenance

Flushed chemical feed lines to the SBRs.

Cleaned final effluent weir trough daily

Skimmed surface of disc filters daily

Drained and cleaned disc filters bi-weekly

Cleaned buildings and laboratory

Significant Rainfall

During April, there were ten (10) days when rainfall occurred. There were three (3) events of rainfall meeting or exceeding 0.50 inches.

April 1st 0.51 inches

April 6th 1.27 inches

April 8th 1.45 inches

April 19th 2.09 inches

There were two events of consecutive rainfall event

April 6th through 9th for a total of 3.62 inches of rainfall

April 15th through 17th for a total of 0.61 inches of rainfall

Maintenance and Other Activities

April 7th Tim Daley from Pennoni Associates was on site to conduct the flow study for the new UV disinfection system.\

April 8th The plant called out an alarm from the Siemens panel. The high floes entering through the plant required on site attention.

April 11th The influent sampler rotating assembly was replaced. The sampler was not collecting a sample.

April 18th Prepared the plant and adjusted treatment settings for upcoming rainfall.

DRAFT
EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY
MEETING MINUTES
April 11, 2022

The East Goshen Township Municipal Authority held their regular meeting on Monday, April 11, 2022 at 7:00 pm. at the Township Building. Members in attendance are indicated in **BOLD**:

Walter Wujcik, Chairman;

Kevin Cummings, Vice Chairman;

Phil Mayer

Dana Pizarro

Jack Yahraes

Also in attendance were: Mark Miller (Director of Public Works), Mike Ellis (Pennoni), and Patrick McKenna (Attorney).

COMMON ACRONYMS:

BFES – Big Fish Environmental Services

BOS – Board of Supervisors

CB – Conservancy Board

DEP – Department of Environmental Protection

EPA – Environmental protection Agency

HC – Historical Commission

I&I – Inflow & Infiltration

LCSTP – Lockwood Chase Sewer Treatment Plant

MA- Municipal Authority

NPDES – National Pollutant Discharge Elimination System

PC – Planning Commission

PM – Prevention Maintenance

PR – Park & Recreation Board

RCSTP – Ridley Creek Sewer Treatment Plant

SBR – Sequencing Batch Reactor

SSO – Sanitary System Overflow

WAS – Waste Activated Sludge

Call to Order & Pledge of Allegiance

Walter called the meeting to order at 7:00 pm and led those present in the Pledge of Allegiance.

He asked for a moment of silence for our First Responders and the Military.

Walter asked if anyone would be recording the meeting. There was no response.

Chairman's Report

1. Walter will attend the PMAA management workshop this week.

2. West Goshen – Phil attended the recent meeting. Their plant is in compliance. They filed a status report. Phil reviewed the status of the construction and mentioned that they had a problem with one of the contractors. Westtown Way they reported that they are having supply chain problems especially with electrical items. There will be a 3 month gap. Some residents from Green Manor Farm attended the meeting to request that their homes be connected to the public sewer system. There are 27 homes but when they did a survey only half of them wanted to connect so they won't follow up on it.

SEWER REPORTS

1. Director of Public Works, Mark Miller's report for March 2022

Monthly Flows – The average daily flow to West Goshen was 680,597 per day.

Meters: The meters were read on a daily basis. The meters were calibrated on March 28th, no adjustments were needed. It was noted that two of the control cabinets needed to be replaced. I ordered two new cabinets which Lenni Electric will replace. We had a problem with the Hicks meter.

1 We found that the wiring was shorted out and not working. Lenni was notified and replaced the
2 wiring. The meter is working again.
3

4 **C.C. Collection:** The pump stations were visited on a daily basis. The wet wells were cleaned. The
5 contractor has started installing the cameras at each of the stations. We have the capability to see the
6 control panels to determine the problem. We were notified of a problem with a lateral on Barker
7 Drive; however, looking at the line, it was determined that the problem was the homeowner's and not
8 the Township. We had several trees that came down in the right of ways which we cut up and
9 removed.
10

11 **R.C. Collection:** The stations were checked on a daily basis and routine maintenance was
12 performed. Cameras were installed as well. While tending to a downed tree on East Boot Road, we
13 found a casting knocked off a manhole. The PWD installed a new casting. We also noticed the line
14 under Ridley Creek has become exposed. I spoke with Mike Ellis. He will need to obtain a general
15 permit from DEP to make the repairs. Once we obtain the proper permits, we will complete the
16 repair.
17

18 **Ridley Creek Plant:** The electronics that we ordered for the main control panel came in and have
19 been placed in a secure cabinet. The new LED lighting is just about complete. They have to
20 complete the sludge room and screen room.
21

22 **Alarms:** We responded to 19 alarms for March.
23

24 **PA One Calls:** We responded to over 80 PA One Calls for the month of March.
25

26 **Monthly Rainfall:** 3.10 inches of rain for the month of March.
27

28 **Lateral Repairs or Caps:** 6 caps were replaced in March.
29
30
31

32 **2. Pennoni Engineer's Report dated April 8, 2022**

33 **Ridley Creek Sewage Treatment Plant (RCSTP)**

- 34 • Caustic Soda Conversion – We obtained updated vendor quotes for the tank and chemical
35 feed pumps and provided recommendations for purchase.
- 36 • UV Disinfection System – We witnessed hydraulic testing of peak flow rates (1,500 gpm)
37 through the filters to evaluate the water level in the filter effluent tanks. The raised UV
38 channel to accommodate the Glasco system will increase the water level in the channel by
39 approximately 11 inches, and it is expected to increase the level in the filter tanks by a similar
40 amount. It was determined that there will still be several feet of freeboard in the filter tanks
41 after the UV channel water level is increased. We thereby recommended the Township
42 execute the Costars contract with the Glasco vendor, and we are coordinating for signatures
43 accordingly.

44 The lead time for the Glasco equipment is approximately 5 months, which will be circa
45 September 2022 based on contract execution on April 11. The installation of the system and

1 other electrical and controls work is tentatively planned to occur in late fall-early winter once
2 awards for the Commonwealth Financing Authority (CFA) Local Share Account (LSA) grants
3 are announced.

- 4 • NPDES Permit Renewal – No updates since our last report. The public review comment
5 period has ended, and DEP indicated the final permit will be issued shortly with no changes
6 from the draft version that was provided for public review.

7 **Ridley Creek Collection System Permanent Meters**

- 8 • No activity since our last report.

9 **Westtown Way Pump Station**

- 10 • No activity since our last report.

11 **Sanitary Sewer Pipe Rehab**

- 12 • Supplee Valley – No activity since our last report.
- 13 • Hershey’s Mill Estates – We submitted the GP-11 “Stream Obstructions” plans and permit
14 application to DEP on March 8. We have responded to some administrative questions from
15 DEP, but we are not aware that they have begun their technical review of the application yet.
16 Since a LSA grant application was submitted for this project, construction contracts cannot be
17 awarded if/until the grant is “approved”. We therefore currently plan to bid the project in the
18 late fall-early winter with construction projected in early to mid 2023.
- 19 • Ridley Creek Exposed Sewer Rehab – We were notified of an exposed ductile iron pipe in the
20 stream bed of the Ridley Creek immediately north of N. Boot Road near Bellingham. The
21 proposed rehab solution to protect the pipe is to encase it in concrete through an emergency
22 DEP permit. We are coordinating with DEP on the emergency permitting requirements. We
23 anticipate that a General Permit GP-5 “Utility Line Stream Crossings” will be required, and
24 that the work can be done as an emergency so long as it is completed within 30 days of the
25 permit application. The work is expected to be performed by Public Works and will require a
26 pumped stream bypass.

27 **I&I Program**

- 28 • No activity since our last report.

29 **New Connections**

- 30 • Sewer Extension Study – We performed internal research for public outreach project
31 examples and forward an example to the MA; however, the examples we have are for projects
32 that were necessitated by system malfunctions and were already into the design process.

Chapter 94 Reports

- We completed the 2021 Chapter 94 Annual Sewer Facilities Reports for the RCSTP, West Goshen (Chester Creek), and Westtown Service Areas. The RCSTP and West Goshen Service Area reports were submitted directly to DEP, and the West Goshen report was also submitted to West Goshen Township. The Westtown Service Area report was submitted to Westtown Township only. All reports were submitted by the March 31 deadline. There are no existing or projected capacity limitations in any systems or at the RCSTP.

A summary of the RCSTP and West Goshen reports follows:

- **RCSTP:**

1. The RCSTP's average influent flow was 459,000 gpd in 2021, which is consistent with the flow from 2020. Flows remains well within the 750,000 gpd permitted average capacity of the plant. The 2021 flows are equivalent to 228 gpd/EDU, which is consistent with the Township's planning flow rate of 225 gpd/EDU. See Table 1 in the RCSTP Chapter 94 Report for a tabulation of 5-year flow history.
2. The projected future 5-year average flow to the RCSTP is 480,000 gpd. The projection does not include the Reservoir Road Pump Station Diversion, so there is still capacity for approximately 250,000 gpd for the diversion. Refer to the attached Chart 1 excerpt for a graph of the 5-year historical and 5-year projected flows.
3. The RCSTP's average organic loading was 995 lbs BOD₅/day in 2021, which is a significant increase of 20% from 2020 and 39% from 2019, despite no increased hydraulic loadings in 2021. However, it is well within the 2,098 lbs/day permitted capacity. See Table 3 in the RCSTP Chapter 94 Report for a tabulation of 5-year organic loading history.
4. The 5-year projected average organic loading to the plant is 996 lbs BOD₅/day, which remains well within the permitted capacity. Refer to the attached Chart 2 excerpt for a graph of the 5-year historical and 5-year projected organic loadings.
5. The Hershey's Mill and Hunt Country Pump Stations operated within their permitted hydraulic capacities in 2021, and they are projected to continue to do so in the future due to little to no projected upstream connections. See Table 8 in the RCSTP Chapter 94 Report for a summary of 2021 pump station flows versus capacities.

- **West Goshen Service Area:**

1. East Goshen's average daily flow was 637,000 gpd in 2021, which is a decrease of 6% from 2020 and 18% from 2019. The actual flow rate in 2020 was 180 gpd/EDU, which is well under the planning flow rate of 225 gpd/EDU. This likely due to lower precipitation in 2020-2021 as compared to 2018-2019 plus the ongoing success of the Township's aggressive I&I elimination program. See Table 1 in the West Goshen Chapter 94 Report for a tabulation of 5-year flow history.
2. The projected future 5-year average flow to West Goshen is 715,000 gpd, which is well within the intermunicipal capacity of 1 MGD. Refer to the attached Chart 1 excerpt for a graph of the 5-year historical and 5-year projected flows.
3. The Barkway and Ashbridge Pump Stations operated within their permitted hydraulic

capacities in 2021 and are projected to continue to do so. See Table 8 in the West Goshen Chapter 94 Report for a summary of 2021 pump station flows versus capacities.

Industrial Pretreatment Ordinance

- No activity since our last report. As discussed at the May 2021 MA meeting, a headworks study with sampling at the RCSTP can be conducted to set contaminant limits.

3. Big Fish Environmental Services –

The Ridley Creek sewage treatment plant outfall 001 achieved compliance with the permit discharge limitations for the month of February and March 2022. All supplemental reports for February 2022 were submitted with the DMR. Discharge to the Applebrook irrigation lagoon remained in service. Chemical usage utilized for pH and total alkalinity remained consistent with previous months. Aluminium sulfate solution volumes remained similar to February daily dosages at a daily average of 68.1 gpd to achieve phosphorus removal. No significant mechanical or operational issues were observed during operation of sludge dewatering equipment or SBR treatment process. There was an electrical power surge on April 1st resulting in a blown relay failure and reprogramming of the influent pumps. There were no odor complaints during the month.

Approval of Minutes

Kevin moved to approve the March 14, 2022 minutes. Walter seconded the motion. The motion passed unanimously.

Approval of Invoices

1. Jack moved to approve the following Pennoni invoices:

#1113816	\$ 3,403.62
#1113817	\$ 4,156.75
#1113818	\$ 6,657.25
#1113819	\$13,564.75

Kevin seconded the motion. The motion passed unanimously.

2. Kevin moved to approve the Maillie Invoice #1000120865 for \$7,000.00 which was paid on 3/18. Phil seconded the motion. The motion passed unanimously.

Liaison Reports

1. Conservancy Board – Walter reminded everyone that Keep East Goshen Beautiful Day is on Saturday April 23. It is also Arbor Day so the Board will be holding a planting of a tree in Clymers Woods.

Financial Reports

1. March Financial Report - Dave Ware provided the following report:

In March 2022, the Municipal Authority recorded \$23,223 in revenues (transfers from Sewer Operating and Sewer Capital Reserve) and \$23,223 in expenses (Magnetic flow meter at Hershey

1 Mill pump station, recharged administrative costs, legal services and the DRBC annual fee) for a net
2 result of operations of \$0. As of March 31, 2022, the fund balance was \$9,127.

3
4 **Old Business**

5 1. Sewer Extension Study – Mark mentioned that next month there will be a complete report of
6 costs.

7 2. Kevin Cummings was reappointed for another 5 year term on the Municipal Authority by the
8 Board of Supervisors on January 3, 2022.

9 3. Dana Pizarro was reappointed for another 5 year term on the Municipal Authority by the Board of
10 Supervisors on January 3, 2022.

11 4. Mark Miller signed the Glasco UV system proposal in the amount of \$134,985.00. Mike
12 discussed how the system works. He is projecting August/September for installation.

13 5. Walter mentioned the Maillie audit. It will be reviewed next month.

14 6. Mike reported that the Hershey Mill Trunk Line permit application was submitted to DEP. The
15 grant application has also been submitted.

16
17 **Goals**

18 The goals were reviewed. The date should be changed to 2022 Goals. Also, the last item should be
19 two meters. Mark will make the corrections.

20
21 **New Business**

22 1. Grinder Pump Agreement – 1506 Meadowbrook Dr. (lot 1) 706 Hemlock Hill Lane 53-4-23.4 -

23 Mark explained this request. Kevin made a motion to authorize the chairman to sign the Grinder
24 Pump agreement for the referenced location. Jack seconded the motion. The motion passed
25 unanimously.

26 2. Ridley Creek Caustic Soda - Mike spoke about the tanks and options. The recommendation is the
27 Assmann model IMT3050 L19/L19 Polyethylene tank for a total of \$33,485. Kevin made a motion
28 to approve the purchase up to \$33,485 and cost of any accessories. Phil seconded the motion. The
29 motion passed unanimously.

30 3. Pulse Feeder Pumps – Mike explained that they need 5 pumps and 1 spare. They have the spare
31 which they used for the trial run. The cost for 5 pumps is \$7,480. Phil made a motion to accept the
32 proposal for the 5 pulse feeder pumps. Kevin seconded the motion. The motion passed unanimously.

33
34 **Capacity Request -** None

35
36
37 **Any Other Matter –**

38 1. Annual tour – Jack mentioned that the Municipal Authority has one meeting after a tour of the
39 plant. Mark will look into this.

40 2. Tap-in Fee – The Tap-in Fee payment plan agreement for 1577 Colonial Lane was terminated
41 because the owner did not execute the agreement by October 15, 2021. The fee due is \$7,148.

42
43 **Correspondence-** None

44
45 **Public Comment -** None

1 **Adjournment**

2 There being no further business Jack moved to adjourn the meeting. Phil seconded the motion. The
3 motion passed unanimously. The meeting was adjourned at 8:05 pm.

4 The next regular meeting will be held on Monday, May 9, 2022 at 7:00 pm.
5

6 Respectfully submitted,
7

8
9 Ruth Kiefer, Recording Secretary



INVOICE

Remit Payment To:
Pennoni Associates Inc.
P.O. Box 827328
Philadelphia, PA 19182-7328

Mark Miller
East Goshen Municipal Authority
1580 Paoli Pike
West Chester, PA 19380-6199

Invoice No : 1117370
Invoice Date : 04/28/2022
Project : EGMAU22001
Project Name : 2022 General
Services

For Services Rendered Through 04/17/2022

General Consultation - April Engineer's Report; preparation for and attendance at April MA meeting including review of RCSTP operator's report; evaluated source of influent metering to use for DEP eDMR and 2022 Chp 94 Reporting w/ operator due to discrepancies with field meter, influent pump station meter, and effluent plant meter; and performed capacity analysis for Hershey's Mill Pump Station for potential new connections.

Boot Road Sewer Rehab Creek Crossing - Evaluated existing condition of exposed sewer main in creek in office and rehabilitation alternatives, reviewed original construction plans, conducted creek crossing permit pre-application phone meeting with DEP, conducted PNDI environmental search, and initiated preparation of GP-11 Stream Obstructions permit application.

Sewer Extension Study - Provided public outreach document examples to the MA.

Billing Limits	Current	Prior	To-Date
Total Billings	3,426.25	7,284.00	10,710.25
Limit			35,000.00
Remaining			24,289.75

Labor

	Hours	Rate	Amount
Authority Engineer	12.75	141.00	1,797.75
Senior Professional	.25	134.00	33.50
Staff Professional	4.75	110.00	522.50
Associate Professional	2.75	105.00	288.75
Graduate Professional	8.25	95.00	783.75
Totals	28.75		3,426.25
Total Labor			3,426.25

Total this Invoice **\$3,426.25**

ok
MA
5/5/2022

INVOICES DUE ON RECEIPT. Invoices outstanding over 30 days will have a Service Charge of 1 1/2% per month.

2022 General Services
EGMAU22001 Invoice Summary
Invoice Date 4/28/2022

Project: EGMAU22001
Pennoni Job No.: 2022 General Services
Invoice No: 1117370
Invoice Period: 3/21/2022 to 4/17/2022
Initial Authorization: \$ 35,000.00 **Date:** 4/28/2022
Contract Amount: \$ 35,000.00
Previously Invoiced: \$ 7,284.00
Current Invoice: \$ 3,426.25
Invoiced to Date (\$): \$ 10,710.25
Invoiced to Date (%): 31%
Remaining Budget (\$): \$ 24,289.75
Remaining Budget (%): 69%

Budget by Phase:

Phase Name: 2022 General Services
Phase Budget: \$ 35,000.00
Previously Invoiced: \$ 7,284.00
Current Invoice: \$ 3,426.25
Invoiced to Date (\$): \$ 10,710.25
Invoiced to Date (%): 31%
Remaining Budget (\$): \$ 24,289.75
Remaining Budget (%): 69%

Comments: General Consultation - April Engineer's Report; preparation for and attendance at April MA meeting including review of RCSTP operator's report; evaluated source of influent metering to use for DEP eDMR and 2022 Chp 94 Reporting w/ operator due to discrepancies with field meter, influent pump station meter, and effluent plant meter; and performed capacity analysis for Hershey's Mill Pump Station for potential new connections.

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INVOICE

Remit Payment To:
Pennoni Associates Inc.
P.O. Box 827328
Philadelphia, PA 19182-7328

Mark Miller
East Goshen Municipal Authority
1580 Paoli Pike
West Chester, PA 19380-6199

Invoice No : 1117371
Invoice Date : 04/28/2022
Project : EGMAU22003
Project Name : 2021 Chapter 94
Reports

For Services Rendered Through 04/17/2022

Finalized and submitted Chapter 94 Reports.

Billing Limits	Current	Prior	To-Date
Total Billings	1,876.25	6,657.25	8,533.50
Limit			9,000.00
Remaining			466.50

Labor

	Hours	Rate	Amount
Authority Engineer	3.75	141.00	528.75
Staff Professional	12.25	110.00	1,347.50
Totals	16.00		1,876.25
Total Labor			1,876.25
Total this Invoice			<u>\$1,876.25</u>

OK
WA
5-5-2022

2021 Chapter 94 Reports
EGMAU22003 Invoice Summary
Invoice Date 4/28/2022

Project:	EGMAU22003		
Pennoni Job No.:	2021 Chapter 94 Reports		
Invoice No:	1117371		
Invoice Period:	3/21/2022	to	4/17/2022
Initial Authorization:	\$ 8,000.00	Date:	4/28/2022
Contract Amount:	\$ 8,000.00		
Previously Invoiced:	\$ 6,657.25		
Current Invoice:	\$ 466.50		
Invoiced to Date (\$):	\$ 7,123.75		
Invoiced to Date (%):	89%		
Remaining Budget (\$):	\$ 876.25		
Remaining Budget (%):	11%		

Budget by Phase:

Phase Name:	2021 Chapter 94 Reports		
Phase Budget:	\$ 8,000.00		
Previously Invoiced:	\$ 6,657.25		
Current Invoice:	\$ 466.50		
Invoiced to Date (\$):	\$ 7,123.75		
Invoiced to Date (%):	89%		
Remaining Budget (\$):	\$ 876.25		
Remaining Budget (%):	11%		

Comments: Finalized and submitted Chapter 94 Reports.



INVOICE

Remit Payment To:
Pennoni Associates Inc.
P.O. Box 827328
Philadelphia, PA 19182-7328

Derek Davis
East Goshen Municipal Authority
1580 Paoli Pike
West Chester, PA 19380-6199

Invoice No : 1117373
Invoice Date : 04/28/2022
Project : EGMAU22004
Project Name : RCSTP UV
Replacement

For Services Rendered Through 04/17/2022

Prepared for and conducted filter high flow hydraulics test with operator; confirmed terms of Glasco quote with vendor and coordinated with Township to execute proposal accordingly.

Billing Limits	Current	Prior	To-Date
Total Billings	1,283.50	16,102.00	17,385.50
Limit			30,000.00
Remaining			12,614.50

Labor

	Hours	Rate	Amount
Authority Engineer	1.50	141.00	211.50
Senior Professional	8.00	134.00	1,072.00
Totals	9.50		1,283.50
Total Labor			1,283.50

Total this Invoice \$1,283.50

OK
MB
5-5-2022

RCSTP UV Replacement
EGMAU22004 Invoice Summary
Invoice Date 4/28/2022

Project: EGMAU22004
Pennoni Job No.: RCSTP UV Replacement
Invoice No: 1117373
Invoice Period: 3/21/2022 to 4/17/2022
Initial Authorization: \$ 30,000.00 **Date:** 4/28/2022
Contract Amount: \$ 30,000.00
Previously Invoiced: \$ 16,102.00
Current Invoice: \$ 1,283.50
Invoiced to Date (\$): \$ 17,385.50
Invoiced to Date (%): 58%
Remaining Budget (\$): \$ 12,614.50
Remaining Budget (%): 42%

Budget by Phase:

Phase Name: RCSTP UV Replacement
Phase Budget: \$ 30,000.00
Previously Invoiced: \$ 16,102.00
Current Invoice: \$ 1,283.50
Invoiced to Date (\$): \$ 17,385.50
Invoiced to Date (%): 58%
Remaining Budget (\$): \$ 12,614.50
Remaining Budget (%): 42%

Comments: Prepared for and conducted filter high flow hydraulics test with operator; confirmed terms of Glasco quote with vendor and coordinated with Township to execute proposal accordingly.

Deckman Motor & Pump, Inc.
49 W. Front Street
Bridgeport, PA 19405
610-272-6944

68382



BILL TO
East Goshen Township
1580 Paoli Pike
West Chester, PA 19380

SHIP TO
Mark-cell 610-656-2742
called 3-15
3-27 cjt

INVOICE 4202

DATE 03/15/2022 TERMS Net 30

SHIP VIA
Cust Pick Up

TECH
LTS

WORK ORDER #
30227 & 30256

ITEM	DESCRIPTION	QTY	EACH	AMOUNT
RBM	Rebuilt - Fairbanks Pump, Date: L02 Serial No: 1495773-0, 40 HP, 1761 RPM, 3 Phase, 460 Volts, 250T Frame ID: U040D2254DIX 1131 A - Clean, sandblast, install new bearings, seals, gland, gaskets, o-rings, loctite upper bearing, add new oil and paint	1	4,331.00	4,331.00
RBM	Rebuilt - Fairbanks Pump, Date: 2019 Serial No: 10575776, 40 HP, 1760 RPM, 3 Phase, 460 Volts, 250T Frame ID: U040D2254D1V 1131 A - Clean, sandblast, install new bearings, seals, gland, gaskets, o-rings, loctite upper bearing, add new oil and paint	1	4,301.00	4,301.00

PAID
\$114

Ashbridge

TOTAL DUE

\$8,632.00

APPROVED BY: _____
DATE PAID: _____
CHECK #: _____
CHARGED TO: 07429.1502

Ashbridge

Picked Up/Received By: _____

[Signature]

We Appreciate Your Business

We Accept Visa, MasterCard, Discover & American Express

Sue Smith

From: David Ware
Sent: Wednesday, May 4, 2022 5:12 PM
To: Michael Ellis
Cc: Derek Davis; Mark Miller; Sue Smith
Subject: Re: Pennoni Invoices - Municipal Authority - April 2022
Attachments: mime-attachment.png; EGMAU.pdf

Works for me thanks Mike.

Dave Ware
Finance Director
East Goshen Township
dware@eastgoshen.org
610-692-7171

On May 4, 2022, at 1:54 PM, Michael Ellis <MEllis@pennoni.com> wrote:

Hi folks,
Our April invoices are attached.

Dave and Mark,
There was some additional effort on the Chp 94 project to resolve discrepancies in RCSTP influent flow data between the various plant meters and DEP reports from 2021. The total effort was \$8,533.50 as reflected in the attached invoice. The estimated budget for this work had been \$8,000. To maintain the overall "general engineering" for the year at the same budget as originally authorized, we thereby increased the budget on the Chp 94 project from \$8K to \$9K, and we decreased the budget accordingly on the I/I task by \$1K (no invoices or effort for I/I yet for YTD), for no net overall change. Please call if you would like to discuss.

Thanks!
Mike

Michael Ellis, PE
Municipal Division Manager

Pennoni
121 Continental Drive, Suite 207 | Newark, DE 19713
Direct: +1 (302) 351-5236 | **Mobile:** +1 (302) 561-4235
www.pennoni.com | MEllis@Pennoni.com

MAV
5-5-2027

Sue Smith

From: Michael Ellis <MEllis@Pennoni.com>
Sent: Wednesday, May 4, 2022 2:05 PM
To: Mark Miller; David Ware
Cc: Derek Davis; Sue Smith
Subject: UV Replacement Engineering Budget Recommendation

Hi Mark and Dave,

As discussed prior to and at the April MA meeting, the overall engineering effort for the UV Replacement project is recommended to be budgeted at \$30,000. A budget had not previously been set since it was originally authorized as a separate "General Engineering" task in 2021. Since it evolved into a larger project thereafter, we created a separate billing project for it to track against a separate Township budget line item.

The effort through March was approximately \$16,000 to scope the project, evaluate alternative vendors, prepare designs, and scope other mechanical, electrical, and controls work.

We anticipate an additional approximately \$14,000 will be needed to prep the mech and electrical bid docs, structural design for channel wall height extensions, conduct bidding, and perform construction admin and inspections.

We thereby recommend an engineering budget be formally established and approved by the MA for an amount not-to-exceed \$30,000, to be billed at our approved hourly rates.

Mike


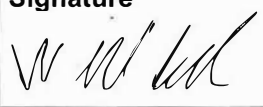
Michael Ellis, PE
Municipal Division Manager

Pennoni
121 Continental Drive, Suite 207 | Newark, DE 19713
Direct: +1 (302) 351-5236 | **Mobile:** +1 (302) 561-4235
www.pennoni.com | MEllis@Pennoni.com



[Designing for Resiliency](#)

SEWAGE INSPECTION REPORT

Permit Number	Inspection Date	Entry Time	Exit Time	Inspection Type	Inspection ID
PA0050504	05/03/2022	08:49	10:18	CEI	3356025
Municipality	East Goshen		County	Chester	
Facility Name	RIDLEY CREEK STP		Permittee Name	EAST GOSHEN MUNI AUTH CHESTER CNTY	
24-Hour Emergency Contact Person/Phone	Matthew Mullin / (610) 675-7044		Email	----	
Physical Location Address	1751 TOWNE DR, WEST CHESTER, PA, 19380				
Permit Expiration Date	03/31/2027	Next Submittal ---- Due Date ----			
Violations*	 No Violations Noted				
Recommendations					
Provide a copy of General Work Plan and System Specific Management Plan					
Person Interviewed	Matthew Mullin	Date	05/03/2022	Inspector	WILLIAM J COLLINS
Signature	----	Phone Number	----	Signature	
					Phone Number (484) 250-5139
Title	----			Title	WTR QLTY SPCST
Email	----			Email	wilcollins@pa.gov
<p>This document is official notification that a representative of the Department of Environmental Protection inspected the above facility. The findings of this inspection are shown above and on any attached pages. *Any violations which were noted during the inspection are indicated. Violations may also be discovered upon examination of the results of laboratory analyses of the discharge and/or review of Department records.</p>					

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

SEWAGE INSPECTION REPORT

Facility Details Section			
Responsible Official	DEREK F DAVIS	Title	TOWNSHIP MGR
Business Phone	(610) 692-7171	Email	ddavis@eastgoshen.org
Permittee Address	1580 PAOLI PIKE, WEST CHESTER, PA, 19380-6107		
Certified Operator	MULLIN MATTHEW	Client ID	194477
Certificates	A,E-1,2,3,4	Certification Status	Active
		Expiration Date	06/30/2024
Is a Copy of the permit(s) on-site?			Yes
Has the interviewed operator/person reviewed the facility's permit(s)?			Yes
Comments			
<p>This CEI was conducted alongside Matthew Mullin Headworks- grinder and mechanical screen appeared to be functioning properly SBR's- 3 of 4 were online. 3 online appeared to be working correctly. Disc filters- no issues were observed UV- no reported issues. Scheduled to be upgraded Sludge holding- appeared to be functioning properly Outfall- no discharge at time of inspection Receiving stream- appeared in good condition. Upstream and downstream conditions appeared similar</p>			
Participants:			

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

SEWAGE INSPECTION REPORT

1 Mon,Rpts&Rcds: 00007247 - SBR PLANT

Influent Sampling

MRR-1	Is influent monitoring required by the permit?	Yes	
MRR-2	Are influent samples collected?	Yes	
MRR-3	Is the influent sampling location prior to all treatment? Notes: Samples are collected from MH prior to headworks	Yes	
MRR-4	Is the influent sampling location prior to all return flows?	Yes	
MRR-5	Are representative influent samples collected?	Yes	

Effluent Sampling

MRR-6	Is the effluent sample collected at the location identified in the permit?	Yes	
MRR-7	Where is the effluent sample collection location?	End of UV	
MRR-8	Is the effluent sample location after all treatment?	Yes	
MRR-9	Are representative effluent samples collected?	Yes	

Sample Collection

MRR-10	Are samples collected as required by the permit?	Yes	
MRR-11	Is proper sampling equipment / containers used during collection?	Yes	
MRR-12	Are the proper type of samples collected in accordance with the permit?	Yes	
MRR-13	Are the samples collected at the frequency in accordance with the permit?	Yes	
MRR-14	Is the proper sample size (minimum aliquot 100 mL) collected?	Yes	
MRR-15	Is proper temperature control provided during collection, storage and shipping?	Yes	
MRR-16	Is the temperature of the sampler or storage refrigerator monitored using an NIST traceable thermometer and recorded?	Yes	
MRR-17	Is the sample storage temperature $\leq 6^{\circ}\text{C}$?	Yes	
MRR-18	What is the sample storage temperature?	5 C	

On-site Lab Accreditation-by-Rule

MRR-19	Does the facility analyze accredited-by-rule parameters only?	Yes	
MRR-20	Which accredited-by-rule parameters are analyzed by the on-site lab?	pH DO	

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

SEWAGE INSPECTION REPORT

MRR-21	Is the on-site lab registered?	Yes	
MRR-22	Laboratory Registration ID	15-05032	

Lab Accreditation

MRR-23	Does the on-site laboratory analyze permit parameters?	No	
MRR-29	Are permit parameters analyzed by a contract lab?	Yes	
MRR-30	Contract Lab Name, City, Phone Notes: Suburban Testing Labs 1037F MacArthur Rd. Reading, PA 19605 610-375-4090	See notes	
MRR-31	Contract Laboratory Accreditation ID	06-00208	
MRR-32	Is the contract lab accredited for those permit parameters?	Yes	
MRR-33	Have any changes occurred with the accredited-by-rule or the accredited parameters or labs?	No	

Analysis

MRR-35	Are approved test methods (per 40 CFR Part 136 or others) used for permit parameters?	Not Observed	
MRR-36	Are the methods used sufficiently sensitive for permit parameters?	Not Observed	
MRR-37	Are the samples analyzed within the required holding time?	Not Observed	
MRR-38	Are laboratory equipment/meters calibrated in accordance with the manufacturers' specifications?	Not Observed	
MRR-39	Are laboratory meters operated and maintained in accordance with the manufacturers' specifications?	Not Observed	
MRR-40	Are pH buffers and other reagent standards current?	Yes	

Records

MRR-41	Are sampling, calibration, laboratory results, chain-of-custody and other required records readily available for review and complete?	Yes	
MRR-42	Do the sampling records include collector, date/time, location information?	Yes	
MRR-43	Do the analysis records include the analyst's name, the analysis date and time, the test method used, the quantitation limits, and the results?	Yes	
MRR-44	Are the required facility records retained for a minimum of 3 years?	Yes	
MRR-45	Are the required sludge use and disposal records retained for a minimum of 5 years?	Yes	
MRR-46	Was access provided to information or to facility records upon request?	Yes	

Reports

MRR-47	Identify the month/year of the DMRs and supporting data reviewed.	3/'21-3/'22	
MRR-48	Are the reviewed DMRs and supplemental reports properly completed?	Yes	

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

SEWAGE INSPECTION REPORT

MRR-49	Are the reviewed bench sheets/lab reports consistent with the reported data?	Not Observed	
MRR-50	Are samples collected more frequently than required in the permit?	No	
MRR-52	Are DMRs submitted on time?	Yes	
MRR-53	Are the required supplemental reports submitted?	Yes	
MRR-54	Is the facility using the eDMR system, if required?	Yes	

2 Flow Measurement: 00007247 - SBR PLANT

Flow Measurement

Q-2	If influent flows are measured, are they measured before all return lines and after hauled-in waste?	Not Applicable	
Q-3	Is a flume present?	No	
Q-6	Is a weir present?	Yes	
Q-7	Are weirs clean with a visible air space below nappe? Notes: No discharge at time of inspection	Not Applicable	
Q-8	What is the max flow that can be measured at the primary device (flume or weir)?	3.0 MGD	

Meter & Recorder

Q-9	Does the permit require continuous flow monitoring and recording?	Yes	
Q-10	Does the facility have the required flow monitoring and recording capabilities?	Yes	
Q-11	What type of flow meter is used?	Ultrasonic	
Q-12	What type of flow recorder is used?	Totalizer 7-day Chart	
Q-13	Are the meter and recorder operable and operating?	Yes	
Q-14	What is the date of the most recent flow meter calibration?	3/22	
Q-15	What is the calibration range of the flow meter?	Unknown	
Q-16	What is the flow range of the recorder?	0-2500k gpm	
Q-17	What is the current flow meter reading (MGD or gpm)?	0	

High Flows

Q-18	Does the permit require a High Flow Management Plan?	No	
------	--	----	--

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

SEWAGE INSPECTION REPORT

3 TP Treatment Plant: 00007247 - SBR PLANT

Treatment Units

TP-1	Are all treatment units operable?	Yes	
TP-2	Are the treatment units/equipment as described in the WQM permit(s) or in the previous inspection report?	Yes	

Stand-by Power

TP-7	Is stand-by power provided?	Yes	
TP-8	Type of Stand-by Power	Emergency generator	
TP-9	How often is the stand-by power unit maintained?	Quarterly	
TP-10	How often is the stand-by power unit exercised?	Weekly	
TP-11	Is the stand-by power unit exercised under load?	Yes	
TP-12	Is the stand-by power system operable and maintained?	Yes	

Alarms

TP-13	Is an alarm system available?	Yes	
TP-14	Type of Alarm	Auto Dialer	
TP-15	How often is the alarm system tested?	Weekly	
TP-16	What conditions trigger an alarm? Select all that apply.	Power failure High level Pump faults Pump failure	
TP-17	Is the alarm system(s) operable?	Yes	

Chemicals

TP-18	Are chemicals used for treatment or otherwise added to the waste stream?	Yes	
TP-19	Which chemicals are added? Notes: Soda ash/ Alum/ Polymer	See notes	
TP-20	What is the purpose of the chemical addition? Notes: pH adjustment/ Phos removal/ Coagulation	See notes	
TP-21	Where are the chemicals added? Notes: SBR/ SBR/ Centrifuge	See notes	

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

SEWAGE INSPECTION REPORT

TP-22	Are chemicals properly handled and stored to prevent a pollution incident?	Yes	
-------	--	-----	--

Bypasses

TP-23	Did a treatment plant bypass occur since the last inspection?	No	
-------	---	----	--

Planned Changes

TP-35	Have any changes (new pollutants, different or increased volume or loadings) to the waste stream from industrial or hauled-in wastes occurred since the last inspection?	No	
-------	--	----	--

4 O&M: 00007247 - SBR PLANT

O&M

OM-1	Which of the following treatment plant and equipment records are available?	O&M Manual As-built drawings Maintenance schedule Equipment Manuals	
OM-2	Is a daily operations log on-site?	Yes	
OM-3	Is the daily operations log up to date?	Yes	
OM-4	Which operational conditions/actions are recorded in the log?	Observations Process adjustments Problems or Concerns	
OM-5	Are process control parameters monitored? (Record the monitoring frequency and current results)	Yes	
OM-6	Is an influent/process control supplemental report form completed and submitted with the DMR?	Yes	
OM-7	Does the daily operations log include maintenance and repair records?	No	
OM-8	Is a routine preventative maintenance (PM) schedule and log maintained?	Yes	
OM-9	Is a repair log on-site?	Yes	
OM-10	Are the PM and repair logs up to date?	Yes	
OM-11	Were major equipment repairs/replacements done since the last inspection?	No	
OM-12	Is a spare parts inventory, either written or electronic, maintained?	Yes	
OM-13	Are spare parts and equipment (pumps, motors) maintained on-site or readily available?	Yes	

Solids Management

OM-14	What is the sludge storage capacity?	Unknown	
-------	--------------------------------------	---------	--

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

SEWAGE INSPECTION REPORT

OM-15	How much sludge was removed from the facility in the past year?	90.29 dry tons	
OM-16	How does the facility determine how much sludge to waste?	MLSS results	
OM-17	Is sludge/biosolids production & disposal information submitted on the applicable supplemental report form with the DMR?	Yes	
OM-18	Does the facility test the removed sludge for %TS?	Yes	
OM-19	Who provides sludge hauling/disposal/land application?	Charles Blossenski	
OM-20	Where is the sludge disposal/biosolids application location? Notes: Lanchester Landfill	See notes	
OM-21	How and where are other solid materials, such as collected screenings and grit, disposed?	Dumpster	
OM-22	Has the facility obtained or assured that contracted agents have the necessary permits and approvals for the disposal of solid materials?	Yes	
OM-23	Are solid materials handled and disposed of in compliance with a disposal permit and requirements?	Yes	
OM-24	Is the facility in compliance with all other Part C Special Conditions regarding Solids Management?	Yes	

Hauled in Wastes

OM-25	Does the facility accept hauled-in wastes?	No	
-------	--	----	--

Stormwater

OM-37	Does the permit include a special condition or other requirements regarding stormwater management?	No	
-------	--	----	--

Special Conditions

OM-42	Is the facility subject to industrial pretreatment requirements, or does the permit include a Part C Special Condition regarding Industrial Pretreatment?	No	
OM-45	Does the permit contain a condition regarding whole effluent toxicity (WET) tests?	No	
OM-48	Are any other special conditions in the permit not covered in this inspection report?	No	

5 DP Discharge Point: 001 - OUTFALL 001

Outfall

DP-1	Outfall Observations	See photo	
DP-2	Were field measurements taken?	No	
DP-4	Were effluent samples collected for laboratory analysis?	No	

Downstream

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BUREAU OF CLEAN WATER

SEWAGE INSPECTION REPORT

DP-10	Is the receiving stream clear of floating or deposited materials, scum, sheen, foam, oil, grease or other substances associated with the discharge?	Yes	
DP-11	Were downstream field measurements taken?	No	
DP-13	Were downstream samples collected for laboratory analysis?	No	
Upstream			
DP-19	Was the stream observed upstream from the outfall?	Yes	
DP-20	Were upstream field measurements taken?	No	
DP-22	Were upstream samples collected for laboratory analysis?	No	

6 CV Conveyance: 00007247 - SBR PLANT			
Collection System			
CV-1	Does the permitted entity own, operate & maintain the entire collection system?	Yes	
CV-4	Is collection system maintenance performed?	Yes	
CV-5	Is maintenance regularly scheduled?	Yes	
CV-6	Is maintenance done as problems occur?	Yes	
CV-7	Which types of maintenance are performed?	Jetting/televising	
CV-8	Does the system experience infiltration and/or inflow that causes or could cause O&M problems or interferes with treatment?	Yes	
CV-9	Is an I&I program in place?	Yes	
CV-10	Select the I&I detection work performed since last inspection	Metering	
CV-11	Select the I&I removal work performed since last inspection	Dish Installation Manhole Repair Manhole Replacement Pipe Lining Pipe Repair Pipe Replacement	
Sanitary Sewer Overflows			
CV-12	Have any sanitary sewer overflows occurred since the last inspection?	No	

7 PS Pump Stations: 00007247 - SBR PLANT

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Pump Stations

PS-1	How many pump stations are part of the facility's collection system?	2	
PS-2	Are pump station flows recorded?	Yes	
PS-3	How are flows measured?	Metered Estimated from pump run times	
PS-4	What type of flow meter/sensor is in use?	Magnetic	
PS-5	When was the most recent flow meter calibration done?	N/O	
PS-7	Are pump stations monitored with alarms?	Yes	
PS-8	Are the alarms operable?	Not Observed	
PS-9	Are the pump stations equipped with backup auxiliary power?	Yes	
PS-10	Type of Stand-by Power	Emergency generator	
PS-11	Is the stand-by power system operable?	Not Observed	
PS-12	Is the stand-by power system maintained in accordance with manufacturer's recommendations?	Not Observed	
PS-13	How often is the stand-by power unit maintained?	Quarterly	
PS-14	How often is the stand-by power unit exercised?	Weekly	
PS-15	Is the stand-by power unit exercised under load?	Yes	

OpCert: 00007247 - SBR PLANT

Operator Certification

OP-1	Is a properly certified operator employed for the treatment plant?	Yes	
OP-2	Is at least one collection system pump station part of the permitted facility?	Yes	
OP-3	Is an operator with a valid E-4 certificate employed for the operation of the facility's collection system pump station(s)?	Yes	
OP-4	How many properly certified available operators make process control decisions at this facility?	2	
OP-5	Is at least one available operator's current certificate displayed at the treatment plant?	Yes	
OP-6	Have the available operators been provided with a copy of the current NPDES/WQM Permits?	Yes	
OP-7	On which days of the week is an available operator at the plant?	Monday Wednesday	

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SEWAGE INSPECTION REPORT

OP-8	How many hours are spent at the plant by the available operator(s) each day (weekdays/weekends/holidays)?	5	
OP-9	Does the operator notify the owner about violations or conditions that may cause a violation, and needed resources?	Yes	
OP-10	How does the operator notify the owner about known violations or conditions that may cause a violation, and about needed resources?	Email Phone call	
OP-11	Does the owner respond to the operator's notification about needed resources?	Yes	
OP-12	Does the operator act to resolve the condition(s) and/or violation(s)?	Yes	
OP-13	Are non-certified or not properly certified persons expected to perform work that requires process control decisions?	Yes	
OP-14	How are non-certified/not properly certified persons directed to perform process control work?	Available operator on-site Available operator on call SOPs	
OP-15	Has the owner elected to develop SOPs?	Yes	
OP-16	Has the owner designated an operator in responsible charge to develop SOPs?	Yes	
OP-17	Name of operator in responsible charge	Matthew Mullin	
OP-18	Has the designated operator in responsible charge developed and/or approved SOPs?	Yes	
OP-19	If the available operator/operator in charge (OIC) has changed, was a change of operator form submitted to DEP within 10 days?	Not Applicable	

Circuit Rider

OP-20	Is the facility operated by a circuit rider?	Yes	
OP-21	How many facilities does the circuit rider operate?	2	
OP-22	Is the required General Work Plan complete, signed by the owner and available for review upon request?	Not Observed	
OP-23	Is the required System Specific Management Plan complete, signed by the owner and available for review upon request?	Not Observed	

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SEWAGE INSPECTION REPORT

3 TP Treatment Plant: 00007247 - SBR PLANT

Treatment Units

TP-1	Are all treatment units operable?			
Treatment Units	Total	On-Line	Inoperable	Comments
Influent Screen	2	2	0	
SBR	4	3	0	
Other Post EQ	2	2	0	
Media Filter	2	2	0	
UV Chamber	1	1	0	
Sludge Holding Tank/Lagoon	2	2	0	
Centrifuge	1	1	0	

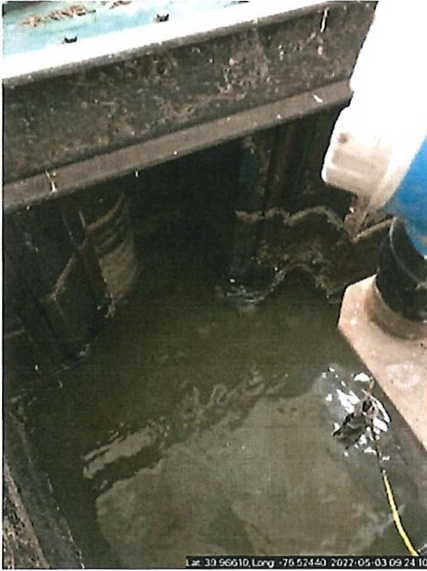
4 O&M: 00007247 - SBR PLANT

O&M

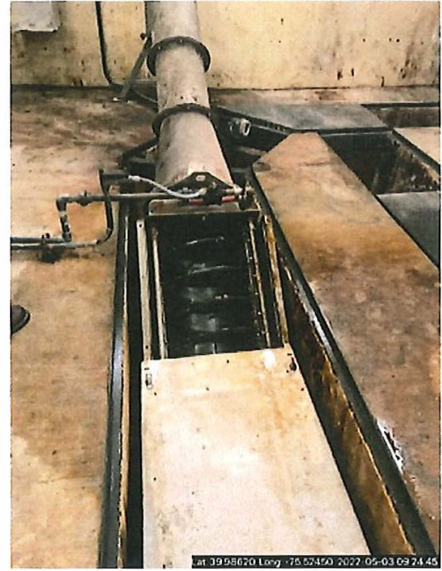
OM-5	Are process control parameters monitored? (Record the monitoring frequency and current results)	
Parameter / Calculation	Frequency Of Testing	Current Testing Results
Other SBR observations	Daily	
Dissolved Oxygen	Daily	
pH	Daily	6.57 6.52 6.49
Mixed Liquor Suspended Solids (MLSS)	2-3x/wk	1560 1853 1915
Microscopic Exam	As needed	
Alkalinity	Daily	180 152 185

SEWAGE INSPECTION REPORT

Inspection Images



Description: Influent grinder



Description: Influent mechanical screen



Description: SBR 1



Description: SBR 2 - mixed fill

SEWAGE INSPECTION REPORT



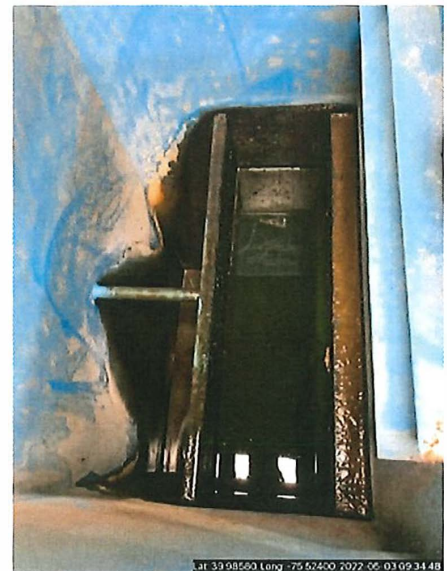
Description: SBR 3 - settle



Description: SBR 4 - react



Description: Disc filter 1



Description: Filter 1 effluent

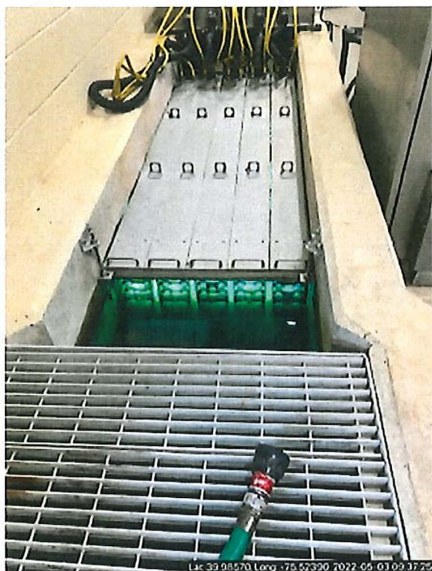
SEWAGE INSPECTION REPORT



Description: Disc filter 2



Description: Filter 2 effluent

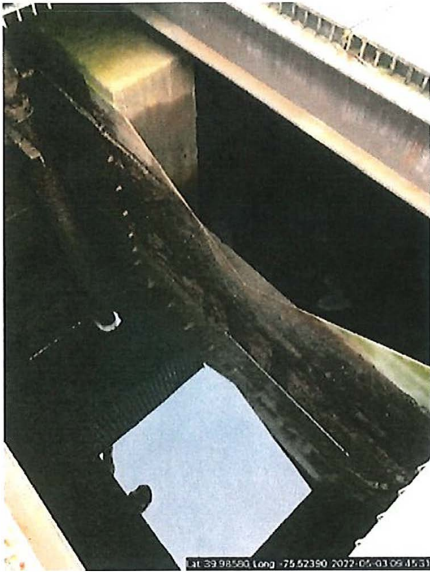


Description: UV chamber



Description: End of UV

SEWAGE INSPECTION REPORT



Description: Final effluent weir



Description: Confluence of effluent channel with receiving stream



Description: Downstream



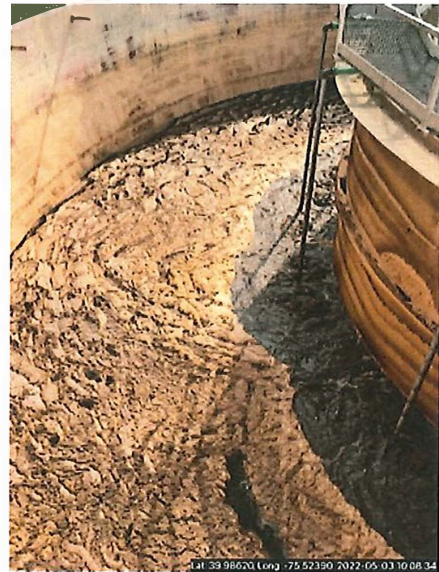
Description: Sludge holding tank 1

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

SEWAGE INSPECTION REPORT



Description: Post EQ 1



Description: Sludge holding tank 2



Description: Post EQ 2



March 21, 2022

FYI

Mr. Derek Davis
Township Manager
East Goshen Municipal Authority
1580 Paoli Pike
West Chester, PA 19380-6107

Re: Final NPDES Permit- Sewage
Ridley Creek STP
NPDES Permit No. PA0050504
Authorization ID No. 1374893
East Goshen Township, Chester County

Dear Mr. Davis:

Your NPDES permit is enclosed. Please read the permit carefully. The permit expires on the date identified on page 1 of the permit. A renewal application must be submitted to this office 180 days prior to the permit expiration date, if a discharge is expected to continue past the expiration date of the permit.

Enclosed are Discharge Monitoring Report (DMR) templates and DMR instructions. It is recommended that you retain the DMR templates in the event you are unable to submit DMRs electronically through DEP's eDMR system. Routine use of the eDMR system is a requirement of the permit unless the conditions in Part A III.B.3 of the permit are met to submit hard copies.

Also enclosed is a Supplemental Form Inventory, which identifies the forms that are attached to the permit and must be submitted as attachments to eDMR reports, as applicable (see individual form instructions). The submission of other supplemental forms may be required in accordance with the permit. We encourage you to use the spreadsheet versions of supplemental forms that contain appropriate validation and DEP-approved calculations.

We would like to bring to your attention to the enclosed information about the Early Warning System (EWS). The EWS may be useful to initiate an alert by reporting an event to downstream water suppliers and industries. We encourage you to use this notification procedure when needed.

We would like to bring DEP's eNOTICE service to your attention. eNOTICE is a subscription service that provides options to receive notifications of DEP's activities such as the receipt of permit applications, comment periods for guidance and regulations, and stream redesignation evaluations. To sign up for an account, visit DEP's website (www.dep.pa.gov) and select Data and Tools – Tools – eNOTICE.

Mr. Derek Davis

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March 21, 2022

Any person aggrieved by this action may appeal the action to the Environmental Hearing Board (Board), pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. § 7514, and the Administrative Agency Law, 2 Pa.C.S. Chapter 5A. The Board's address is:

Environmental Hearing Board
Rachel Carson State Office Building, Second Floor
400 Market Street
P.O. Box 8457
Harrisburg, PA 17105-8457

TDD users may contact the Environmental Hearing Board through the Pennsylvania Relay Service, 800-654-5984.

Appeals must be filed with the Board within 30 days of receipt of notice of this action unless the appropriate statute provides a different time. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

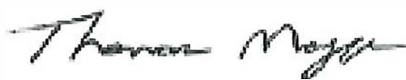
A Notice of Appeal form and the Board's rules of practice and procedure may be obtained online at <http://ehb.courtapps.com> or by contacting the Secretary to the Board at 717-787-3483. The Notice of Appeal form and the Board's rules are also available in braille and on audiotape from the Secretary to the Board.

IMPORTANT LEGAL RIGHTS ARE AT STAKE. YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD AT 717-787-3483 FOR MORE INFORMATION. YOU DO NOT NEED A LAWYER TO FILE A NOTICE OF APPEAL WITH THE BOARD.

IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST BE FILED WITH AND RECEIVED BY THE BOARD WITHIN 30 DAYS OF RECEIPT OF NOTICE OF THIS ACTION.

If you have any questions, please contact Sara Reji Abraham at saabraham@pa.gov or 484.250.5195.

Sincerely,



Thomas L. Magge
Environmental Program Manager
Clean Water Program

Mr. Derek Davis

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March 21, 2022

Enclosures

cc: Chester County Health Department (w/o enclosure)
Mr. Ellis – Pennoni Associates, Inc.
Mr. Kovach – DRBC
Operations Section
Central Office, Division of Operations
Re



**AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE REQUIREMENTS FOR PUBLICLY OWNED
TREATMENT WORKS (POTWs)**

NPDES PERMIT NO: PA0050504

In compliance with the provisions of the Clean Water Act, 33 U.S.C. Section 1251 *et seq.* ("the Act") and Pennsylvania's Clean Streams Law, as amended, 35 P.S. Section 691.1 *et seq.*,

**East Goshen Municipal Authority
1580 Paoli Pike
West Chester, PA 19380-6107**

is authorized to discharge from a facility known as **Ridley Creek STP**, located at **1751 Towne Drive, West Chester, PA 19380, East Goshen Township, Chester County**, to **Ridley Creek (HQ-TSF, MF)** in Watershed(s) **3-G** in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts A, B and C hereof.

THIS PERMIT SHALL BECOME EFFECTIVE ON APRIL 1, 2022

THIS PERMIT SHALL EXPIRE AT MIDNIGHT ON MARCH 31, 2027

The authority granted by this permit is subject to the following further qualifications:

1. If there is a conflict between the application, its supporting documents and/or amendments and the terms and conditions of this permit, the terms and conditions shall apply.
2. Failure to comply with the terms, conditions or effluent limitations of this permit is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. (40 CFR 122.41(a))
3. A complete application for renewal of this permit, or notice of intent to cease discharging by the expiration date, must be submitted to DEP at least 180 days prior to the above expiration date (unless permission has been granted by DEP for submission at a later date), using the appropriate NPDES permit application form. (40 CFR 122.41(b), 122.21(d))

In the event that a timely and complete application for renewal has been submitted and DEP is unable, through no fault of the permittee, to reissue the permit before the above expiration date, the terms and conditions of this permit, including submission of the Discharge Monitoring Reports (DMRs), will be automatically continued and will remain fully effective and enforceable against the discharger until DEP takes final action on the pending permit application. (25 Pa. Code §§ 92a.7(b), (c))

4. This NPDES permit does not constitute authorization to construct or make modifications to wastewater treatment facilities necessary to meet the terms and conditions of this permit.

DATE PERMIT ISSUED March 21, 2022

ISSUED BY

A handwritten signature in black ink, appearing to read "Thomas L. Magge".

**Thomas L. Magge
Environmental Program Manager
Southeast Regional Office**

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. A. For Outfall 001, Latitude 39° 59' 9.19", Longitude 75° 31' 26.33", River Mile Index 18.72, Stream Code 00621

Receiving Waters: Ridley Creek (HQ-TSF, MF)

Type of Effluent: Treated Sewage Effluent

1. The permittee is authorized to discharge during the period from **Permit Effective Date** through **Permit Expiration Date**.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average	Daily Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
Dissolved Oxygen	XXX	XXX	5.0 Inst Min	XXX	XXX	XXX	1/day	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5) Nov 1 - Apr 30	125	188	XXX	20	30	40	1/week	24-Hr Composite
Carbonaceous Biochemical Oxygen Demand (CBOD5) May 1 - Oct 31	62	94	XXX	10	15	20	1/week	24-Hr Composite
Carbonaceous Biochemical Oxygen Demand (CBOD5) Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	1/week	24-Hr Composite
Biochemical Oxygen Demand (BOD5) Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	1/week	24-Hr Composite
Total Suspended Solids	62	94	XXX	10.0	15.0	XXX	1/week	24-Hr Composite
Total Suspended Solids Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	1/week	24-Hr Composite

Outfall 001, Continued (from Permit Effective Date through Permit Expiration Date)

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average	Daily Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000*	1/week	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/week	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/quarter	Grab
Ultraviolet light intensity (mW/cm ²)	XXX	XXX	Report	XXX	XXX	XXX	1/day	Measured
Total Nitrogen	Report	XXX	XXX	Report	XXX	XXX	1/week	24-Hr Composite
Ammonia-Nitrogen Nov 1 - Apr 30	44	XXX	XXX	7.0	XXX	14	1/week	24-Hr Composite
Ammonia-Nitrogen May 1 - Oct 31	16	XXX	XXX	2.5	XXX	5	1/week	24-Hr Composite
Total Phosphorus	3.0	XXX	XXX	0.5	XXX	1	1/week	24-Hr Composite
Copper, Total	Report Avg Qrtly	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	24-Hr Composite
Zinc, Total	Report Avg Qrtly	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	24-Hr Composite

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at discharge prior to wetland for Outfall 001, and at effluent pump chamber for Outfall 002. See Footnotes (3).

*Shall not exceed in more than 10% of samples. See Part C.I. Other Requirements No. G.

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. B. For Outfall 002, Latitude 40° 0' 19.00", Longitude 75° 32' 5.00", River Mile Index 18.72, Stream Code 00621

Receiving Waters: Ridley Creek (HQ-TSF, MF)

Type of Effluent: Treated Sewage Effluent

1. The permittee is authorized to discharge during the period from **Permit Effective Date** through **Permit Expiration Date**.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average	Daily Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
Dissolved Oxygen	XXX	XXX	5.0 Inst Min	XXX	XXX	XXX	1/day	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5) Nov 1 - Apr 30	125	188	XXX	20	30	40	1/week	24-Hr Composite
Carbonaceous Biochemical Oxygen Demand (CBOD5) May 1 - Oct 31	62	94	XXX	10	15	20	1/week	24-Hr Composite
Total Suspended Solids	62	94	XXX	10.0	15.0	XXX	1/week	24-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000*	1/week	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/week	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/quarter	Grab

Outfall 002, Continued (from Permit Effective Date through Permit Expiration Date)

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average	Daily Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Ultraviolet light intensity (mW/cm ²)	XXX	XXX	Report	XXX	XXX	XXX	1/day	Measured
Total Nitrogen	Report	XXX	XXX	Report	XXX	XXX	1/week	24-Hr Composite
Ammonia-Nitrogen Nov 1 - Apr 30	44	XXX	XXX	7.0	XXX	14	1/week	24-Hr Composite
Ammonia-Nitrogen May 1 - Oct 31	16	XXX	XXX	2.5	XXX	5	1/week	24-Hr Composite
Total Phosphorus	3.0	XXX	XXX	0.5	XXX	1	1/week	24-Hr Composite
Copper, Total	Report Avg Qrtly	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	24-Hr Composite
Zinc, Total	Report Avg Qrtly	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	24-Hr Composite

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at discharge prior to wetland for Outfall 001, and at effluent pump chamber for Outfall 002. See Footnotes (3).

*Shall not exceed in more than 10% of samples. See Part C.I. Other Requirements No. G.

**PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS
(Continued)**

Additional Requirements

1. The permittee may not discharge:
 - a. Floating solids, scum, sheen or substances that result in observed deposits in the receiving water. (25 Pa Code § 92a.41(c))
 - b. Oil and grease in amounts that cause a film or sheen upon or discoloration of the waters of this Commonwealth or adjoining shoreline, or that exceed 15 mg/l as a daily average or 30 mg/l at any time (or lesser amounts if specified in this permit). (25 Pa. Code § 92a.47(a)(7), § 95.2(2))
 - c. Substances in concentration or amounts sufficient to be inimical or harmful to the water uses to be protected or to human, animal, plant or aquatic life. (25 Pa Code § 93.6(a))
 - d. Foam or substances that produce an observed change in the color, taste, odor or turbidity of the receiving water, unless those conditions are otherwise controlled through effluent limitations or other requirements in this permit. For the purpose of determining compliance with this condition, DEP will compare conditions in the receiving water upstream of the discharge to conditions in the receiving water approximately 100 feet downstream of the discharge to determine if there is an observable change in the receiving water. (25 Pa Code § 92a.41(c))
2. The monthly average percent removal of BOD₅ or CBOD₅ and TSS must be at least 85% for POTW facilities on a concentration basis except where 25 Pa. Code 92a.47(g) and (h) are applicable to facilities with combined sewer overflows (CSOs) or as otherwise specified in this permit. (25 Pa. Code § 92a.47(a)(3))
3. If the permit requires the reporting of average weekly statistical results, the maximum weekly average concentration and maximum weekly average mass loading shall be reported, regardless of whether the results are obtained for the same or different weeks.
4. The permittee shall monitor the sewage effluent discharge(s) for the effluent parameters identified in the Part A limitations table(s) during all bypass events at the facility, using the sample types that are specified in the limitations table(s). Where the required sample type is "composite", the permittee must commence sample collection within one hour of the start of the bypass, wherever possible. The results shall be reported on the Daily Effluent Monitoring supplemental form (3800-FM-BCW0435) and be incorporated into the calculations used to report self-monitoring data on Discharge Monitoring Reports (DMRs).

Footnotes

- (1) When sampling to determine compliance with mass effluent limitations, the discharge flow at the time of sampling must be measured and recorded.
- (2) This is the minimum number of sampling events required. Permittees are encouraged, and it may be advantageous in demonstrating compliance, to perform more than the minimum number of sampling events.
- (3) Samples collected at Outfall 001 may be used to represent effluent quality at Outfall 002.

Supplemental Information

- (1) The hydraulic design capacity of 0.75 million gallons per day for the treatment facility is used to prepare the annual Municipal Wasteload Management Report to help determine whether a "hydraulic overload" situation exists, as defined in Title 25 Pa. Code Chapter 94.
- (2) The effluent limitations for Outfalls 001 and 002 were determined using effluent discharge rates of 0.75 MGD and 0.135 MGD, respectively.

- (3) The organic design capacity of 2098 lbs BOD₅ per day for the treatment facility is used to prepare the annual Municipal Wasteload Management Report to determine whether an "organic overload" condition exists, as defined in 25 Pa. Code Chapter 94.
- (4) Total Nitrogen is the sum of Total Kjeldahl-N (TKN) plus Nitrite-Nitrate as N (NO₂+NO₃-N), where TKN and NO₂+NO₃-N are measured in the same sample.

II. DEFINITIONS

At Outfall (XXX) means a sampling location in outfall line XXX below the last point at which wastes are added to outfall line (XXX), or where otherwise specified.

Average refers to the use of an arithmetic mean, unless otherwise specified in this permit. (40 CFR 122.41(l)(4)(iii))

Best Management Practices (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures and other management practices to prevent or reduce the pollutant loading to surface waters of the Commonwealth. The term also includes treatment requirements, operating procedures and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage. The term includes activities, facilities, measures, planning or procedures used to minimize accelerated erosion and sedimentation and manage stormwater to protect, maintain, reclaim, and restore the quality of waters and the existing and designated uses of waters within this Commonwealth before, during and after earth disturbance activities. (25 Pa. Code § 92a.2)

Bypass means the intentional diversion of waste streams from any portion of a treatment facility. (40 CFR 122.41(m)(1)(i))

Calendar Week is defined as the seven consecutive days from Sunday through Saturday, unless the permittee has been given permission by DEP to provide weekly data as Monday through Friday based on showing excellent performance of the facility and a history of compliance. In cases when the week falls in two separate months, the month with the most days in that week shall be the month for reporting.

Clean Water Act means the Federal Water Pollution Control Act, as amended (33 U.S.C.A. §§ 1251 to 1387).

Composite Sample (for all except GC/MS volatile organic analysis) means a combination of individual samples (at least eight for a 24-hour period or four for an 8-hour period) of at least 100 milliliters (mL) each obtained at spaced time intervals during the compositing period. The composite must be flow-proportional; either the volume of each individual sample is proportional to discharge flow rates, or the sampling interval is proportional to the flow rates over the time period used to produce the composite. (EPA Form 2C)

Composite Sample (for GC/MS volatile organic analysis) consists of at least four aliquots or grab samples collected during the sampling event (not necessarily flow proportioned). The samples must be combined in the laboratory immediately before analysis and then one analysis is performed. (EPA Form 2C)

Daily Average Temperature means the average of all temperature measurements made, or the mean value plot of the record of a continuous automated temperature recording instrument, either during a calendar day or during the operating day if flows are of a shorter duration.

Daily Discharge means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the "daily discharge" is calculated as the average measurement of the pollutant over the day. (25 Pa. Code § 92a.2, 40 CFR 122.2)

Daily Maximum Discharge Limitation means the highest allowable "daily discharge."

Discharge Monitoring Report (DMR) means the DEP or EPA supplied form(s) for the reporting of self-monitoring results by the permittee. (25 Pa. Code § 92a.2, 40 CFR 122.2)

Estimated Flow means any method of liquid volume measurement based on a technical evaluation of the sources contributing to the discharge including, but not limited to, pump capabilities, water meters and batch discharge volumes.

Geometric Mean means the average of a set of n sample results given by the nth root of their product.

Grab Sample means an individual sample of at least 100 mL collected at a randomly selected time over a period not to exceed 15 minutes. (EPA Form 2C)

Hauled-In Wastes means any waste that is introduced into a treatment facility through any method other than a direct connection to the sewage collection system. The term includes wastes transported to and disposed of within the treatment facility or other entry points within the collection system.

Hazardous Substance means any substance designated under 40 CFR Part 116 pursuant to Section 311 of the Clean Water Act. (40 CFR 122.2)

Immersion Stabilization (i-s) means a calibrated device is immersed in the wastewater until the reading is stabilized.

Indirect Discharger means a non-domestic discharger introducing pollutants to a Publicly Owned Treatment Works (POTW) or other treatment works. (25 Pa. Code § 92a.2, 40 CFR 122.2)

Industrial User means a source of Indirect Discharge. (40 CFR 403.3)

Instantaneous Maximum Effluent Limitation means the highest allowable discharge of a concentration or mass of a substance at any one time as measured by a grab sample. (25 Pa. Code § 92a.2)

Measured Flow means any method of liquid volume measurement, the accuracy of which has been previously demonstrated in engineering practice, or for which a relationship to absolute volume has been obtained.

Monthly Average Discharge Limitation means the highest allowable average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during that month. (25 Pa. Code § 92a.2)

Municipality means a city, town, borough, county, township, school district, institution, authority or other public body created by or pursuant to State law and having jurisdiction over disposal of sewage, industrial wastes, or other wastes. (25 Pa. Code § 92a.2)

Municipal Waste means garbage, refuse, industrial lunchroom or office waste and other material, including solid, liquid, semisolid or contained gaseous material resulting from operation of residential, municipal, commercial or institutional establishments and from community activities; and sludge not meeting the definition of residual or hazardous waste under this section from a municipal, commercial or institutional water supply treatment plant, waste water treatment plant or air pollution control facility. (25 Pa. Code § 271.1)

Publicly Owned Treatment Works (POTW) means a treatment works as defined by §212 of the Clean Water Act, owned by a state or municipality. The term includes any devices and systems used in the storage, treatment, recycling and reclamation of municipal sewage or industrial wastes of a liquid nature. The term also includes sewers, pipes or other conveyances if they convey wastewater to a POTW providing treatment. The term also means the municipality as defined in section 502(4) of the Clean Water Act, which has jurisdiction over the indirect discharges to and the discharges from such a treatment works. (25 Pa Code § 92a.2, 40 CFR 122.2)

Residual Waste means garbage, refuse, other discarded material or other waste, including solid, liquid, semisolid or contained gaseous materials resulting from industrial, mining and agricultural operations and sludge from an industrial, mining or agricultural water supply treatment facility, wastewater treatment facility or air pollution control facility, if it is not hazardous. The term does not include coal refuse as defined in the Coal Refuse Disposal Control Act. The term does not include treatment sludges from coal mine drainage treatment plants, disposal of which is being carried on under and in compliance with a valid permit issued under the Clean Streams Law. (25 Pa Code § 287.1)

Severe Property Damage means substantial physical damage to property, damage to the treatment facilities that causes them to become inoperable, or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production. (40 CFR 122.41(m)(1)(ii))

Stormwater means the runoff from precipitation, snow melt runoff, and surface runoff and drainage. (25 Pa. Code § 92a.2)

Stormwater Associated With Industrial Activity means the discharge from any conveyance that is used for collecting and conveying stormwater and that is directly related to manufacturing, processing or raw materials storage areas at an industrial plant, and as defined at 40 CFR §122.26(b)(14)(i) – (ix) and (xi) and 25 Pa. Code § 92a.2.

Toxic Pollutant means those pollutants, or combinations of pollutants, including disease-causing agents, which after discharge and upon exposure, ingestion, inhalation or assimilation into any organism, either directly from the environment or indirectly by ingestion through food chains may, on the basis of information available to DEP cause death, disease, behavioral abnormalities, cancer, genetic mutations, physiological malfunctions, including malfunctions in reproduction, or physical deformations in these organisms or their offspring. (25 Pa. Code § 92a.2)

Weekly Average Discharge Limitation means the highest allowable average of "daily discharges" over a calendar week, calculated as the sum of all "daily discharges" measured during a calendar week divided by the number of "daily discharges" measured during that week.

III. SELF-MONITORING, REPORTING AND RECORDKEEPING

A. Representative Sampling

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity (40 CFR 122.41(i)(1)). Representative sampling includes the collection of samples, where possible, during periods of adverse weather, changes in treatment plant performance and changes in treatment plant loading. If possible, effluent samples must be collected where the effluent is well mixed near the center of the discharge conveyance and at the approximate mid-depth point, where the turbulence is at a maximum and the settlement of solids is minimized. (40 CFR 122.48, 25 Pa. Code § 92a.61)

2. Records Retention (40 CFR 122.41(i)(2))

Except for records of monitoring information required by this permit related to the permittee's sludge use and disposal activities which shall be retained for a period of at least 5 years, all records of monitoring activities and results (including all original strip chart recordings for continuous monitoring instrumentation and calibration and maintenance records), copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained by the permittee for 3 years from the date of the sample measurement, report or application, unless a longer retention period is required by the permit. The 3-year period shall be extended as requested by DEP or the EPA Regional Administrator.

3. Recording of Results (40 CFR 122.41(i)(3))

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- a. The exact place, date and time of sampling or measurements.
- b. The person(s) who performed the sampling or measurements.
- c. The date(s) the analyses were performed.
- d. The person(s) who performed the analyses.
- e. The analytical techniques or methods used; and the associated detection level.
- f. The results of such analyses.

4. Test Procedures

- a. Facilities that test or analyze environmental samples used to demonstrate compliance with this permit shall be in compliance with laboratory accreditation requirements of Act 90 of 2002 (27 Pa. C.S. §§ 4101-4113) and 25 Pa. Code Chapter 252, relating to environmental laboratory accreditation.
- b. Test procedures (methods) for the analysis of pollutants or pollutant parameters shall be those approved under 40 CFR Part 136 or required under 40 CFR Chapter I, Subchapters N or O, unless the method is specified in this permit or has been otherwise approved in writing by DEP. (40 CFR 122.41(i)(4), 122.44(i)(1)(iv))
- c. Test procedures (methods) for the analysis of pollutants or pollutant parameters shall be sufficiently sensitive. A method is sufficiently sensitive when 1) the method minimum level is at or below the level of the effluent limit established in the permit for the measured pollutant or pollutant parameter; or 2) the method has the lowest minimum level of the analytical methods approved under 40 CFR Part 136 or required under 40 CFR Chapter I, Subchapters N or O, for the measured pollutant or pollutant parameter; or 3) the method is specified in this permit or has been otherwise approved in writing by DEP for the measured pollutant or pollutant parameter. Permittees have the option of providing matrix or sample-specific minimum levels rather than the published levels. (40 CFR 122.44(i)(1)(iv))

5. Quality/Assurance/Control

In an effort to assure accurate self-monitoring analyses results:

- a. The permittee, or its designated laboratory, shall participate in the periodic scheduled quality assurance inspections conducted by DEP and EPA. (40 CFR 122.41(e), 122.41(i)(3))
- b. The permittee, or its designated laboratory, shall develop and implement a program to assure the quality and accurateness of the analyses performed to satisfy the requirements of this permit, in accordance with 40 CFR Part 136. (40 CFR 122.41(i)(4))

B. Reporting of Monitoring Results

1. The permittee shall effectively monitor the operation and efficiency of all wastewater treatment and control facilities, and the quantity and quality of the discharge(s) as specified in this permit. (25 Pa. Code §§ 92a.3(c), 92a.41(a), 92a.44, 92a.61(i) and 40 CFR §§ 122.41(e), 122.44(i)(1))
2. The permittee shall use DEP's electronic Discharge Monitoring Report (eDMR) system to report the results of compliance monitoring under this permit (see www.dep.pa.gov/edmr). Permittees that are not using the eDMR system as of the effective date of this permit shall submit the necessary registration and trading partner agreement forms to DEP's Bureau of Clean Water (BCW) within 30 days of the effective date of this permit and begin using the eDMR system when notified by DEP BCW to do so. (25 Pa. Code §§ 92a.3(c), 92a.41(a), 92a.61(g) and 40 CFR § 122.41(l)(4))
3. Submission of a physical (paper) copy of a Discharge Monitoring Report (DMR) is acceptable under the following circumstances:
 - a. For a permittee that is not yet using the eDMR system, the permittee shall submit a physical copy of a DMR to the DEP regional office that issued the permit during the interim period between the submission of registration and trading partner agreement forms to DEP and DEP's notification to begin using the eDMR system.
 - b. For any permittee, as a contingency a physical DMR may be mailed to the DEP regional office that issued the permit if there are technological malfunction(s) that prevent the successful submission of a DMR through the eDMR system. In such situations, the permittee shall submit the DMR through the eDMR system within 5 days following remedy of the malfunction(s).
4. DMRs must be completed in accordance with DEP's published DMR instructions (3800-FM-BCW0463). DMRs must be received by DEP no later than 28 days following the end of the monitoring period. DMRs are based on calendar reporting periods and must be received by DEP in accordance with the following schedule:
 - Monthly DMRs must be received within 28 days following the end of each calendar month.
 - Quarterly DMRs must be received within 28 days following the end of each calendar quarter, i.e., January 28, April 28, July 28, and October 28.
 - Semiannual DMRs must be received within 28 days following the end of each calendar semiannual period, i.e., January 28 and July 28.
 - Annual DMRs must be received by January 28, unless Part C of this permit requires otherwise.
5. The permittee shall complete all Supplemental Reporting forms (Supplemental DMRs) attached to this permit, or an approved equivalent, and submit the signed, completed forms as attachments to the DMR, through DEP's eDMR system. DEP's Supplemental Laboratory Accreditation Form (3800-FM-BCW0189) must be completed and submitted to DEP with the first DMR following issuance of this permit, and anytime thereafter when changes to laboratories or methods occur. (25 Pa. Code §§ 92a.3(c), 92a.41(a), 92a.61(g) and 40 CFR § 122.41(l)(4))
6. The completed DMR Form shall be signed and certified by either of the following applicable persons, as defined in 25 Pa. Code § 92a.22:

- For a corporation - by a principal executive officer of at least the level of vice president, or an authorized representative, if the representative is responsible for the overall operation of the facility from which the discharge described in the NPDES form originates.
- For a partnership or sole proprietorship - by a general partner or the proprietor, respectively.
- For a municipality, state, federal or other public agency - by a principal executive officer or ranking elected official.

If signed by a person other than the above and for co-permittees, written notification of delegation of DMR signatory authority must be submitted to DEP in advance of or along with the relevant DMR form. (40 CFR § 122.22(b))

7. If the permittee monitors any pollutant at monitoring points as designated by this permit, using analytical methods described in Part A III.A.4. herein, more frequently than the permit requires, the results of this monitoring shall be incorporated, as appropriate, into the calculations used to report self-monitoring data on the DMR. (40 CFR 122.41(l)(4)(ii))

C. Reporting and Notification Requirements

1. **Planned Changes to Physical Facilities** – The permittee shall give notice to DEP as soon as possible but no later than 30 days prior to planned physical alterations or additions to the permitted facility. A permit under 25 Pa. Code Chapter 91 may be required for these situations prior to implementing the planned changes. A permit application, or other written submission to DEP, can be used to satisfy the notification requirements of this section.

Notice is required when:

- a. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b). (40 CFR 122.41(l)(1)(i))
 - b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are not subject to effluent limitations in this permit. (40 CFR 122.41(l)(1)(ii))
 - c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan. (40 CFR 122.41(l)(1)(iii))
 - d. The planned change may result in noncompliance with permit requirements. (40 CFR 122.41(l)(2))
2. **Planned Changes to Waste Stream** – Under the authority of 25 Pa. Code § 92a.24(a) and 40 CFR 122.42(b), the permittee shall provide notice to DEP and EPA as soon as possible but no later than 45 days prior to any planned changes in the volume or pollutant concentration of its influent waste stream as a result of indirect discharges or hauled-in wastes, as specified in paragraphs 2.a. and 2.b., below. Notice shall be provided on the "Planned Changes to Waste Stream" Supplemental Report (3800-FM-BCW0482), available on DEP's website. The permittee shall provide information on the quality and quantity of waste introduced into the POTW, and any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW (40 CFR 122.42(b)(3)). The Report shall be sent via Certified Mail or other means to confirm DEP's receipt of the notification. DEP will determine if the submission of a new application and receipt of a new or amended permit is required.
 - a. **Introduction of New Pollutants** (25 Pa. Code § 92a.24(a), 40 CFR 122.42(b)(1))

New pollutants are defined as parameters that meet one or more of the following criteria:

- (i) Any pollutants that were not detected in the facilities' influent waste stream as reported in the permit application; and have not been approved to be included in the permittee's influent waste stream by DEP in writing.
- (ii) Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to Sections 301 or 306 of the Clean Water Act if it were directly discharging those pollutants (40 CFR 122.42(b)(1)).

The permittee shall provide notification of the introduction of new pollutants in accordance with paragraph 2 above. The permittee may not authorize the introduction of new pollutants until the permittee receives DEP's written approval.

b. Increased Loading of Approved Pollutants (25 Pa. Code § 92a.24(a), 40 CFR 122.42(b)(2))

Approved pollutants are defined as parameters that meet one or more of the following criteria:

- (i) Were detected in the facilities' influent waste stream as reported in the permittee's permit application; or have been previously approved to be included in the permittee's influent waste stream by DEP in writing.
- (ii) Have an effluent limitation or monitoring requirement in this permit.

The permittee shall provide notification of the introduction of increased influent loading (lbs/day) of approved pollutants in accordance with paragraph 2 above when (1) the cumulative increase in influent loading (lbs/day) exceeds 20% of the maximum loading reported in the permit application, or a loading previously approved by DEP and/or EPA, or (2) may cause an exceedance in the effluent of Effluent Limitation Guidelines (ELGs) or limitations in Part A of this permit, or (3) may cause interference or pass through at the POTW (as defined at 40 CFR 403.3), or (4) may cause exceedances of the applicable water quality standards in the receiving stream. Unless specified otherwise in this permit, if DEP does not respond to the notification within 30 days of its receipt, the permittee may proceed with the increase in loading. The acceptance of increased loading of approved pollutants may not result in an exceedance of ELGs or effluent limitations, may not result in a hydraulic or organic overload condition as defined in 25 Pa. Code § 94.1, and may not cause exceedances of the applicable water quality standards in the receiving stream.

3. Reporting Requirements for Hauled-In Wastes

a. Receipt of Residual Waste

- (i) The permittee shall document the receipt of all hauled-in residual wastes (including but not limited to wastewater from conventional oil and gas wells, food processing waste, and landfill leachate), as defined at 25 Pa. Code § 287.1, that are received for processing at the treatment facility. The permittee shall report hauled-in residual wastes on a monthly basis to DEP on the "Hauled In Residual Wastes" Supplemental Report (3800-FM-BCW0450) as an attachment to the DMR. If no residual wastes were received during a month, submission of the Supplemental Report is not required.

The following information is required by the Supplemental Report. The information used to develop the Report shall be retained by the permittee for five years from the date of receipt and must be made available to DEP or EPA upon request.

- (1) The dates that residual wastes were received.
- (2) The volume (gallons) of wastes received.
- (3) The license plate number of the vehicle transporting the waste to the treatment facility.
- (4) The permit number(s) of the well(s) where residual wastes were generated, if applicable.

(5) The name and address of the generator of the residual wastes.

(6) The type of wastewater.

The transporter of residual waste must maintain these and other records as part of the daily operational record (25 Pa. Code § 299.219). If the transporter is unable to provide this information or the permittee has not otherwise received the information from the generator, the residual wastes shall not be accepted by the permittee until such time as the permittee receives such information from the transporter or generator.

- (ii) In accordance with 40 CFR Part 435, Subpart C, the permittee shall not accept wastewater pollutants associated with production, field exploration, drilling, well completion, or well treatment for unconventional oil and gas extraction (including, but not limited to, drilling muds, drill cuttings, produced sand, produced water). Unconventional oil and gas means crude oil and natural gas produced by a well drilled into a shale and/or tight formation (including, but not limited to, shale gas, shale oil, tight gas, and tight oil). This prohibition does not apply to wastewater generated from stripper wells as defined at 40 CFR Part 435, Subpart F.
- (iii) If the generator is required to complete a chemical analysis of residual wastes in accordance with 25 Pa. Code § 287.51, the permittee must receive and maintain on file a chemical analysis of the residual wastes it receives. The chemical analysis must conform to the Bureau of Waste Management's Form 26R. Each load of residual waste received must be covered by a chemical analysis if the generator is required to complete it.

b. Receipt of Municipal Waste

- (i) The permittee shall document the receipt of all hauled-in municipal wastes (including but not limited to septage and liquid sewage sludge), as defined at 25 Pa. Code § 271.1, that are received for processing at the treatment facility. The permittee shall report hauled-in municipal wastes on a monthly basis to DEP on the "Hauled In Municipal Wastes" Supplemental Report (3800-FM-BCW0437) as an attachment to the DMR. If no municipal wastes were received during a month, submission of the Supplemental Report is not required.

The following information is required by the Supplemental Report:

- (1) The dates that municipal wastes were received.
- (2) The volume (gallons) of wastes received.
- (3) The BOD₅ concentration (mg/l) and load (lbs) for the wastes received.
- (4) The location(s) where wastes were disposed of within the treatment facility.
- (ii) Sampling and analysis of hauled-in municipal wastes must be completed to characterize the organic strength of the wastes, unless composite sampling of influent wastewater is performed at a location downstream of the point of entry for the wastes. The influent BOD₅ characterization for the treatment facility, as reported in the annual Municipal Wasteload Management Report per 25 Pa. Code Chapter 94, must be representative of the hauled-in municipal wastes received.

4. Unanticipated Noncompliance or Potential Pollution Reporting

- a. Immediate Reporting - The permittee shall immediately report any incident causing or threatening pollution in accordance with the requirements of 25 Pa. Code §§ 91.33 and 92a.41(b).
 - (i) If, because of an accident, other activity or incident a toxic substance or another substance which would endanger users downstream from the discharge, or would otherwise result in pollution or create a danger of pollution or would damage property, the permittee shall immediately notify DEP by telephone of the location and nature of the danger. Oral notification to the Department is required as soon as possible, but no later than 4 hours after the permittee becomes aware of the incident causing or threatening pollution.
 - (ii) If reasonably possible to do so, the permittee shall immediately notify downstream users of the waters of the Commonwealth to which the substance was discharged. Such notice shall include the location and nature of the danger.
 - (iii) The permittee shall immediately take or cause to be taken steps necessary to prevent injury to property and downstream users of the waters from pollution or a danger of pollution and, in addition, within 15 days from the incident, shall remove the residual substances contained thereon or therein from the ground and from the affected waters of this Commonwealth to the extent required by applicable law.
- b. The permittee shall report any noncompliance which may endanger health or the environment in accordance with the requirements of 40 CFR 122.41(l)(6). These requirements include the following obligations:
 - (i) 24 Hour Reporting - The permittee shall orally report any noncompliance with this permit which may endanger health or the environment within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which must be reported within 24 hours under this paragraph (40 CFR 122.41(l)(6)(ii)):
 - (1) Any unanticipated bypass which exceeds any effluent limitation in the permit;
 - (2) Any upset which exceeds any effluent limitation in the permit; and
 - (3) Violation of the maximum daily discharge limitation for any of the pollutants listed in the permit as being subject to the 24-hour reporting requirement.
 - (ii) Written Report - A written submission shall also be provided within 5 days of the time the permittee becomes aware of any noncompliance which may endanger health or the environment. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
 - (iii) Waiver of Written Report - DEP may waive the written report on a case-by-case basis if the associated oral report has been received within 24 hours from the time the permittee becomes aware of the circumstances which may endanger health or the environment. Unless such a waiver is expressly granted by DEP, the permittee shall submit a written report in accordance with this paragraph. (40 CFR 122.41(l)(6)(iii))

5. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under paragraph C.4 of this section or specific requirements of compliance schedules, at the time DMRs are submitted, on the Non-Compliance Reporting Form (3800-FM-BCW0440). The reports shall contain the information listed in paragraph C.4.b.(ii) of this section. (40 CFR 122.41(l)(7))

D. Annual Fee (25 Pa. Code § 92a.62)

Permittees shall pay an annual fee in accordance with 25 Pa. Code § 92a.62. As of the effective date of this permit, the facility covered by the permit is classified in the **Minor Sewage Facility ≥ 0.05 and < 1 MGD** fee category, which has an annual fee of **\$1,000**.

Invoices for annual fees will be mailed to permittees approximately three months prior to the due date. In the event that an invoice is not received, the permittee is nonetheless responsible for payment. Permittees may contact the DEP at 717-787-6744 with questions related to annual fees. The fee identified above is subject to change if DEP publishes changes to 25 Pa. Code § 92a.62.

Payment for annual fees shall be remitted to DEP at the address below or through DEP's electronic payment system (www.depgreenport.state.pa.us/NPDESpay) by the due date specified on the invoice. Checks, if used for payment, should be made payable to the Commonwealth of Pennsylvania.

PA Department of Environmental Protection
Bureau of Clean Water
Re: Chapter 92a Annual Fee
P.O. Box 8466
Harrisburg, PA 17105-8466

PART B

I. MANAGEMENT REQUIREMENTS

A. Compliance

1. The permittee shall comply with all conditions of this permit. If a compliance schedule has been established in this permit, the permittee shall achieve compliance with the terms and conditions of this permit within the time frames specified in this permit. (40 CFR 122.41(a)(1))
2. The permittee shall submit reports of compliance or noncompliance, or progress reports as applicable, for any interim and final requirements contained in this permit. Such reports shall be submitted no later than 14 days following the applicable schedule date or compliance deadline. (25 Pa. Code § 92a.51(c), 40 CFR 122.47(a)(4))

B. Permit Modification, Termination, or Revocation and Reissuance

1. This permit may be modified, terminated, or revoked and reissued during its term in accordance with 25 Pa. Code § 92a.72 and 40 CFR 122.41(f).
2. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition. (40 CFR 122.41(f))
3. In the absence of DEP action to modify or revoke and reissue this permit, the permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time specified in the regulations that establish those standards or prohibitions. (40 CFR 122.41(a)(1))

C. Duty to Provide Information

1. The permittee shall furnish to DEP, within a reasonable time, any information which DEP may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. (40 CFR 122.41(h))
2. The permittee shall furnish to DEP, upon request, copies of records required to be kept by this permit. (40 CFR 122.41(h))
3. Other Information - Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to DEP, it shall promptly submit the correct and complete facts or information. (40 CFR 122.41(l)(8))
4. The permittee shall provide the following information in the annual Municipal Wasteload Management Report, required under the provisions of Title 25 Pa. Code Chapter 94:
 - a. The requirements identified in 25 Pa. Code § 94.12.
 - b. The identity of any indirect discharger(s) served by the POTW which are subject to pretreatment standards adopted under Section 307(b) of the Clean Water Act; the POTW shall also specify the total volume of discharge and estimated concentration of each pollutant discharged into the POTW by the indirect discharger.
 - c. A "Solids Management Inventory" if specified in Part C of this permit.
 - d. The total volume of hauled-in residual and municipal wastes received during the year, by source.
 - e. The Annual Report requirements for permittees required to implement an industrial pretreatment program listed in Part C, as applicable.

D. General Pretreatment Requirements

1. Any POTW (or combination of POTWs operated by the same authority) with a total design flow greater than 5 million gallons per day (MGD) and receiving from industrial users pollutants which pass through or interfere with the operation of the POTW or are otherwise subject to Pretreatment Standards will be required to establish a POTW Pretreatment Program unless specifically exempted by the Approval Authority. A POTW with a design flow of 5 MGD or less may be required to develop a POTW Pretreatment Program if the Approval Authority finds that the nature or volume of the industrial influent, treatment process upsets, violations of effluent limitations, contamination of sludge, or other circumstances warrant in order to prevent interference or pass through. (40 CFR 403.8)
2. Each POTW with an approved Pretreatment Program pursuant to 40 CFR 403.8 shall develop and enforce specific limits to implement the prohibitions listed in 40 CFR 403.5(a)(1) and (b), and shall continue to develop these limits as necessary and effectively enforce such limits. This condition applies, for example, when there are planned changes to the waste stream as identified in Part A III.C.2. If the permittee is required to develop or continue implementation of a Pretreatment Program, detailed requirements will be contained in Part C of this permit.
3. For all POTWs, where pollutants contributed by indirect dischargers result in interference or pass through, and a violation is likely to recur, the permittee shall develop and enforce specific limits for indirect dischargers and other users, as appropriate, that together with appropriate facility or operational changes, are necessary to ensure renewed or continued compliance with this permit or sludge use or disposal practices. Where POTWs do not have an approved Pretreatment Program, the permittee shall submit a copy of such limits to DEP when developed. (25 Pa. Code § 92a.47(d))

E. Proper Operation and Maintenance

1. The permittee shall employ operators certified in compliance with the Water and Wastewater Systems Operators Certification Act (63 P.S. §§ 1001-1015.1).
2. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance includes, but is not limited to, adequate laboratory controls including appropriate quality assurance procedures. This provision also includes the operation of backup or auxiliary facilities or similar systems that are installed by the permittee, only when necessary to achieve compliance with the terms and conditions of this permit. (40 CFR 122.41(e))

F. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge, sludge use or disposal in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment. (40 CFR 122.41(d))

G. Bypassing

1. Bypassing Not Exceeding Permit Limitations - The permittee may allow a bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions in paragraphs two, three and four of this section. (40 CFR 122.41(m)(2))
2. Other Bypassing - In all other situations, bypassing is prohibited and DEP may take enforcement action against the permittee for bypass unless:
 - a. A bypass is unavoidable to prevent loss of life, personal injury or "severe property damage." (40 CFR 122.41(m)(4)(i)(A))
 - b. There are no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This

condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance. (40 CFR 122.41(m)(4)(i)(B))

- c. The permittee submitted the necessary notice required in paragraph G.4 below. (40 CFR 122.41(m)(4)(i)(C))
3. DEP may approve an anticipated bypass, after considering its adverse effects, if DEP determines that it will meet the conditions listed in paragraph G.2 above. (40 CFR 122.41(m)(4)(ii))
4. Notice
 - a. Anticipated Bypass – If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible, at least 10 days before the bypass. (40 CFR 122.41(m)(3)(i))
 - b. Unanticipated Bypass – The permittee shall submit oral notice of any other unanticipated bypass within 24 hours, regardless of whether the bypass may endanger health or the environment or whether the bypass exceeds effluent limitations. The notice shall be in accordance with Part A III.C.4.b.

H. Sanitary Sewer Overflows (SSOs)

An SSO is an overflow of wastewater, or other untreated discharge from a separate sanitary sewer system (which is not a combined sewer system), which results from a flow in excess of the carrying capacity of the system or from some other cause prior to reaching the headworks of the sewage treatment facility. SSOs are not authorized under this permit. The permittee shall immediately report any SSO to DEP in accordance with Part A III.C.4 of this permit.

I. Termination of Permit Coverage (25 Pa. Code § 92a.74 and 40 CFR 122.64)

1. Notice of Termination (NOT) – If the permittee plans to cease operations or will otherwise no longer require coverage under this permit, the permittee shall submit DEP's NPDES Notice of Termination (NOT) for Permits Issued Under Chapter 92a (3800-BCW-0410), signed in accordance with Part A III.B.6 of this permit, at least 30 days prior to cessation of operations or the date by which coverage is no longer required.
2. Where the permittee plans to cease operations, NOTs must be accompanied with an operation closure plan that identifies how tankage and equipment will be decommissioned and how pollutants will be managed.
3. The permittee shall submit the NOT to the DEP regional office with jurisdiction over the county in which the operation is located.

II. PENALTIES AND LIABILITY

A. Violations of Permit Conditions

Any person violating Sections 301, 302, 306, 307, 308, 318 or 405 of the Clean Water Act or any permit condition or limitation implementing such sections in a permit issued under Section 402 of the Act is subject to civil, administrative and/or criminal penalties as set forth in 40 CFR 122.41(a)(2).

Any person or municipality, who violates any provision of this permit; any rule, regulation or order of DEP; or any condition or limitation of any permit issued pursuant to the Clean Streams Law, is subject to criminal and/or civil penalties as set forth in Sections 602, 603 and 605 of the Clean Streams Law.

B. Falsifying Information

Any person who does any of the following:

- Falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit, or
- Knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit (including monitoring reports or reports of compliance or noncompliance)

Shall, upon conviction, be punished by a fine and/or imprisonment as set forth in 18 Pa.C.S.A § 4904 and 40 CFR 122.41(j)(5) and (k)(2).

C. Liability

Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance pursuant to Section 309 of the Clean Water Act or Sections 602, 603 or 605 of the Clean Streams Law.

Nothing in this permit shall be construed to preclude the institution of any legal action or to relieve the permittee from any responsibilities, liabilities or penalties to which the permittee is or may be subject to under the Clean Water Act and the Clean Streams Law.

D. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. (40 CFR 122.41(c))

III. OTHER RESPONSIBILITIES

A. Right of Entry

Pursuant to Sections 5(b) and 305 of Pennsylvania's Clean Streams Law, and Title 25 Pa. Code Chapter 92a and 40 CFR 122.41(i), the permittee shall allow authorized representatives of DEP and EPA, upon the presentation of credentials and other documents as may be required by law:

1. To enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit; (40 CFR 122.41(i)(1))
2. To have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit; (40 CFR 122.41(i)(2))
3. To inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit; and (40 CFR 122.41(i)(3))
4. To sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act or the Clean Streams Law, any substances or parameters at any location. (40 CFR 122.41(i)(4))

B. Transfer of Permits

1. Transfers by modification. Except as provided in paragraph 2 of this section, a permit may be transferred by the permittee to a new owner or operator only if this permit has been modified or revoked and reissued, or a minor modification made to identify the new permittee and incorporate such other requirements as may be necessary under the Clean Water Act. (40 CFR 122.61(a))
2. Automatic transfers. As an alternative to transfers under paragraph 1 of this section, any NPDES permit may be automatically transferred to a new permittee if:
 - a. The current permittee notifies DEP at least 30 days in advance of the proposed transfer date in paragraph 2.b. of this section; (40 CFR 122.61(b)(1))

- b. The notice includes the appropriate DEP transfer form signed by the existing and new permittees containing a specific date for transfer of permit responsibility, coverage and liability between them; and (40 CFR 122.61(b)(2))
 - c. DEP does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue this permit, the transfer is effective on the date specified in the agreement mentioned in paragraph 2.b. of this section. (40 CFR 122.61(b)(3))
 - d. The new permittee is in compliance with existing DEP issued permits, regulations, orders and schedules of compliance, or has demonstrated that any noncompliance with the existing permits has been resolved by an appropriate compliance action or by the terms and conditions of the permit (including compliance schedules set forth in the permit), consistent with 25 Pa. Code § 92a.51 (relating to schedules of compliance) and other appropriate Department regulations. (25 Pa. Code § 92a.71)
3. In the event DEP does not approve transfer of this permit, the new owner or operator must submit a new permit application.

C. Property Rights

The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege. (40 CFR 122.41(g))

D. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for a new permit. (40 CFR 122.41(b))

E. Other Laws

The issuance of this permit does not authorize any injury to persons or property or invasion of other private rights, or any infringement of state or local law or regulations.

PART C

I. OTHER REQUIREMENTS

- A. No storm water from pavements, area ways, roofs, foundation drains or other sources shall be directly admitted to the sanitary sewers associated with the herein approved discharge.
- B. The approval herein given is specifically made contingent upon the permittee acquiring all necessary property rights by easement or otherwise, providing for the satisfactory construction, operation, maintenance or replacement of all sewers or sewerage structures associated with the herein approved discharge in, along, or across private property, with full rights of ingress, egress and regress.
- C. Collected screenings, slurries, sludges, and other solids shall be handled and disposed of in compliance with 25 Pa. Code, Chapters 271, 273, 275, 283, and 285 (related to permits and requirements for landfilling, land application, incineration, and storage of sewage sludge), Federal Regulation 40 CFR 257, Pennsylvania Clean Streams Law, Pennsylvania Solid Waste Management Act of 1980, and the Federal Clean Water Act and its amendments. The permittee is responsible to obtain or assure that contracted agents have all necessary permits and approvals for the handling, storage, transport, and disposal of solid waste materials generated as a result of wastewater treatment.
- D. The permittee shall optimize chlorine dosages used for disinfection or other purposes to minimize the concentration of Total Residual Chlorine (TRC) in the effluent, meet applicable effluent limitations, and reduce the possibility of adversely affecting the receiving waters. Optimization efforts may include an evaluation of wastewater characteristics, mixing characteristics, and contact times, adjustments to process controls, and maintenance of the disinfection facilities. If DEP determines that effluent TRC is causing adverse water quality impacts, DEP may reopen this permit to apply new or more stringent effluent limitations and/or require implementation of control measures or operational practices to eliminate such impacts.

Where the permittee does not use chlorine for primary or backup disinfection, but proposes the use of chlorine for cleaning or other purposes, the permittee shall notify DEP prior to initiating use of chlorine and monitor TRC concentrations in the effluent on each day in which chlorine is used. The results shall be submitted as an attachment to the DMR.

- E. Notification of the designation of the responsible operator must be submitted to the permitting agency by the permittee within 60 days after the effective date of the permit and from time to time thereafter as the operator is replaced.
- F. The total average flow for Outfalls 001 and 002 may not exceed 0.75 MGD. Outfall 002 flows reported to DEP must be measured based on pumping rate and time or other methods.
- G. The seasonal effluent limitations for fecal coliform are based on Chapter 92a (Section 92a.47(4) and (5)) of DEP's regulations and Delaware River Basin Commission's (DRBC's) Water Quality Regulations at Section 4.30.4.A. DEP's regulations govern the summer limits for fecal coliform while the winter limits are based on DRBC's regulations. The DRBC regulations state that during winter season from October through April, the instantaneous maximum concentration of fecal coliform organisms shall not be greater than 1,000 per 100 milliliters in more than 10 percent of the samples tested. For reporting purposes, a copy of the guidelines on the 10 percent rule is enclosed with the permit.

II. SOLIDS MANAGEMENT

- A. The permittee shall manage and properly dispose of sewage sludge and/or biosolids by performing sludge wasting that maintains an appropriate mass balance of solids within the treatment system. The wasting rate must be developed and implemented considering the specific treatment process type, system loadings, and seasonal variation while maintaining compliance with effluent limitations. Holding excess sludge within clarifiers or in the disinfection process is not permissible.

- B. The permittee shall submit the Supplemental Reports entitled, "Supplemental Report – Sewage Sludge/Biosolids Production and Disposal" (Form No. 3800-FM-BCW0438) and "Supplemental Report – Influent & Process Control" (Form No. 3800-FM-BCW0436), as attachments to the DMR on a monthly basis. When applicable, the permittee shall submit the Supplemental Reports entitled, "Supplemental Report – Hauled In Municipal Wastes" (Form No. 3800-FM-BCW0437) and "Supplemental Report – Hauled In Residual Wastes" (Form No. 3800-FM-BCW0450), as attachments to the DMR.
- C. By March 31 of each year, the permittee shall submit a "Sewage Sludge Management Inventory" that summarizes the amount of sewage sludge and/or biosolids produced and wasted during the calendar year from the system. The "Sewage Sludge Management Inventory" may be submitted with the Municipal Wasteload Management Report required by Chapter 94. This summary shall include the expected sewage sludge production (estimated using the methodology described in the U.S. EPA handbook, "Improving POTW Performance Using the Composite Correction Approach" (EPA-625/6-84-008)), compared with the actual amount disposed during the year. Sludge quantities shall be expressed as dry weight in addition to gallons or other appropriate units.



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PRIMARY FACILITY NAME/ADDRESS

NAME Ridley Creek STP

CLIENT East Goshen Municipal Authority

ADDRESS 1580 Paoli Pike
West Chester, PA 19380-6107

LOCATION East Goshen Township
Chester County

WATERSHED 3-G

PA0050504				001			
PERMIT NUMBER				OUTFALL NUMBER			

MONITORING PERIOD							
YEAR	MO	DAY		TO	YEAR	MO	DAY

Reporting Frequency: Monthly

DMR Effective From: April 1, 2022

DMR Effective To: March 31, 2027

Permit Expires: March 31, 2027

Permit Application Due: October 2, 2026

☐ Check Here if No Discharge

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PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Flow	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	Report Avg Mo	Report Daily Max	MGD	XXX	XXX	XXX	XXX		Continuous	Measured
pH	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	6.0 Inst Min	XXX	9.0 IMAX	S.U.		1/day	Grab
Dissolved Oxygen	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	5.0 Inst Min	XXX	XXX	mg/L		1/day	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5) Nov 1 - Apr 30	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	125 Avg Mo	188 Wkly Avg	lbs/day	XXX	20 Avg Mo	30 Wkly Avg	mg/L		1/week	24-Hr Composite
Carbonaceous Biochemical Oxygen Demand (CBOD5) May 1 - Oct 31	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	62 Avg Mo	94 Wkly Avg	lbs/day	XXX	10 Avg Mo	15 Wkly Avg	mg/L		1/week	24-Hr Composite
Carbonaceous Biochemical Oxygen Demand (CBOD5) Raw Sewage Influent	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	Report Avg Mo	XXX	lbs/day	XXX	Report Avg Mo	XXX	mg/L		1/week	24-Hr Composite

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).	TELEPHONE		DATE		
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					
		AREA CODE	NUMBER	YEAR	MO	DAY
COMMENTS (Report all violations on the "Non-Compliance Reporting Form")						



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PA0050504				001			
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		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Biochemical Oxygen Demand (BOD5) Raw Sewage Influent	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	Report Avg Mo	XXX	lbs/day	XXX	Report Avg Mo	XXX	mg/L		1/week	24-Hr Composite
Total Suspended Solids	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	62 Avg Mo	94 Wkly Avg	lbs/day	XXX	10.0 Avg Mo	15.0 Wkly Avg	mg/L		1/week	24-Hr Composite
Total Suspended Solids Raw Sewage Influent	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	Report Avg Mo	XXX	lbs/day	XXX	Report Avg Mo	XXX	mg/L		1/week	24-Hr Composite
Fecal Coliform Oct 1 - Apr 30	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	200 Geo Mean	1000 IMAX	No./100 ml		1/week	Grab
Fecal Coliform May 1 - Sep 30	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	200 Geo Mean	1000 IMAX	No./100 ml		1/week	Grab
Ultraviolet light intensity	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	Report Daily Min	XXX	XXX	mW/cm ²		1/day	Measured

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		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Total Nitrogen	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	Report Avg Mo	XXX	lbs/day	XXX	Report Avg Mo	XXX	mg/L		1/week	24-Hr Composite
Ammonia-Nitrogen Nov 1 - Apr 30	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	44 Avg Mo	XXX	lbs/day	XXX	7.0 Avg Mo	XXX	mg/L		1/week	24-Hr Composite
Ammonia-Nitrogen May 1 - Oct 31	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	16 Avg Mo	XXX	lbs/day	XXX	2.5 Avg Mo	XXX	mg/L		1/week	24-Hr Composite
Total Phosphorus	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	3.0 Avg Mo	XXX	lbs/day	XXX	0.5 Avg Mo	XXX	mg/L		1/week	24-Hr Composite

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PA0050504
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001
 OUTFALL NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY

Reporting Frequency: Quarterly
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		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
E. Coli	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	XXX	Report IMAX	No./100 ml		1/quarter	Grab
Copper, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	Report Avg Qrtly	XXX	lbs/day	XXX	Report Avg Qrtly	XXX	mg/L		1/quarter	24-Hr Composite
Zinc, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	Report Avg Qrtly	XXX	lbs/day	XXX	Report Avg Qrtly	XXX	mg/L		1/quarter	24-Hr Composite

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PA0050504				002			
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MONITORING PERIOD							
YEAR	MO	DAY	TO	YEAR	MO	DAY	

Reporting Frequency: Monthly
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		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Flow	SAMPLE MEASUREMENT			MGD				XXX			
	PERMIT REQUIREMENT	Report Avg Mo	Report Daily Max		XXX	XXX	XXX			Continuous	Measured
pH	SAMPLE MEASUREMENT			XXX				S.U.			
	PERMIT REQUIREMENT	XXX	XXX		6.0 Inst Min	XXX	9.0 IMAX			1/day	Grab
Dissolved Oxygen	SAMPLE MEASUREMENT			XXX				mg/L			
	PERMIT REQUIREMENT	XXX	XXX		5.0 Inst Min	XXX	XXX			1/day	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5) Nov 1 - Apr 30	SAMPLE MEASUREMENT			lbs/day				mg/L			
	PERMIT REQUIREMENT	125 Avg Mo	188 Wkly Avg		XXX	20 Avg Mo	30 Wkly Avg			1/week	24-Hr Composite
Carbonaceous Biochemical Oxygen Demand (CBOD5) May 1 - Oct 31	SAMPLE MEASUREMENT			lbs/day				mg/L			
	PERMIT REQUIREMENT	62 Avg Mo	94 Wkly Avg		XXX	10 Avg Mo	15 Wkly Avg			1/week	24-Hr Composite
Total Suspended Solids	SAMPLE MEASUREMENT			lbs/day				mg/L			
	PERMIT REQUIREMENT	62 Avg Mo	94 Wkly Avg		XXX	10.0 Avg Mo	15.0 Wkly Avg			1/week	24-Hr Composite

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Chester County

WATERSHED 3-G

PA0050504

PERMIT NUMBER

002

OUTFALL NUMBER

Reporting Frequency: MonthlyDMR Effective From: April 1, 2022DMR Effective To: March 31, 2027Permit Expires: March 31, 2027Permit Application Due: October 2, 2026☐ Check Here if No Discharge

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		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Fecal Coliform Oct 1 - Apr 30	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	200 Geo Mean	1000 IMAX	No./100 ml		1/week	Grab
Fecal Coliform May 1 - Sep 30	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	200 Geo Mean	1000 IMAX	No./100 ml		1/week	Grab
Ultraviolet light intensity	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	Report Daily Min	XXX	XXX	mW/cm ²		1/day	Measured
Total Nitrogen	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	Report Avg Mo	XXX	lbs/day	XXX	Report Avg Mo	XXX	mg/L		1/week	24-Hr Composite
Ammonia-Nitrogen Nov 1 - Apr 30	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	44 Avg Mo	XXX	lbs/day	XXX	7.0 Avg Mo	XXX	mg/L		1/week	24-Hr Composite
Ammonia-Nitrogen May 1 - Oct 31	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	16 Avg Mo	XXX	lbs/day	XXX	2.5 Avg Mo	XXX	mg/L		1/week	24-Hr Composite

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).	TELEPHONE		DATE		
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY
COMMENTS (Report all violations on the "Non-Compliance Reporting Form")						



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PRIMARY FACILITY NAME/ADDRESS

NAME Ridley Creek STP

CLIENT East Goshen Municipal Authority

ADDRESS 1580 Paoli Pike
West Chester, PA 19380-6107

LOCATION East Goshen Township
Chester County

WATERSHED 3-G

PA0050504				002			
PERMIT NUMBER				OUTFALL NUMBER			

MONITORING PERIOD							
YEAR	MO	DAY		TO	YEAR	MO	DAY

Reporting Frequency: Monthly

DMR Effective From: April 1, 2022

DMR Effective To: March 31, 2027

Permit Expires: March 31, 2027

Permit Application Due: October 2, 2026

☐ Check Here if No Discharge

NOTE: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Total Phosphorus	SAMPLE MEASUREMENT			lbs/day				mg/L			
	PERMIT REQUIREMENT	3.0 Avg Mo	XXX		XXX	0.5 Avg Mo	XXX			1/week	24-Hr Composite

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).	TELEPHONE		DATE		
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO
COMMENTS (Report all violations on the "Non-Compliance Reporting Form")						



COMMONWEALTH OF PENNSYLVANIA
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DISCHARGE MONITORING REPORT (DMR)

PRIMARY FACILITY NAME/ADDRESS

NAME Ridley Creek STP
 CLIENT East Goshen Municipal Authority
 ADDRESS 1580 Paoli Pike
West Chester, PA 19380-6107
 LOCATION East Goshen Township
Chester County
 WATERSHED 3-G

PA0050504
 PERMIT NUMBER

002
 OUTFALL NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY

Reporting Frequency: Quarterly
 DMR Effective From: April 1, 2022
 DMR Effective To: March 31, 2027
 Permit Expires: March 31, 2027
 Permit Application Due: October 2, 2026

☐ Check Here if No Discharge

NOTE: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
E. Coli	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	XXX	Report IMAX	No./100 ml		1/quarter	Grab
Copper, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	Report Avg Qrtly	XXX	lbs/day	XXX	Report Avg Qrtly	XXX	mg/L		1/quarter	24-Hr Composite
Zinc, Total	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	Report Avg Qrtly	XXX	lbs/day	XXX	Report Avg Qrtly	XXX	mg/L		1/quarter	24-Hr Composite

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).	TELEPHONE	DATE		
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO DAY
COMMENTS (Report all violations on the "Non-Compliance Reporting Form")					



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

INSTRUCTIONS FOR COMPLETING DISCHARGE MONITORING REPORTS (DMRs)

General

One or more Discharge Monitoring Reports (DMRs) are attached to your permit for reporting the results of self-monitoring activities as required by your permit. If required by your permit, you must use Department of Environmental Protection's (DEP's) [electronic DMR \(eDMR\) system](#) to submit results. If you are required to use eDMR, these physical forms should only be used under the following circumstances:

1. For a permittee that is not yet using the eDMR system, the permittee shall submit a physical copy of a DMR to the DEP regional office that issued the permit during the interim period between the submission of registration and trading partner agreement forms to DEP and DEP's notification to begin using the eDMR system.
2. For any permittee, as a contingency a physical DMR may be mailed to the DEP regional office that issued the permit if there are technological malfunction(s) that prevent the successful submission of a DMR through the eDMR system. In such situations, the permittee shall submit the DMR through the eDMR system within 5 days following remedy of the malfunction(s).

You should make copies of the DMRs for your ongoing use, unless you participate in the eDMR program.

- Reporting frequencies will vary depending on the monitoring frequencies listed in your permit, and are generally monthly, quarterly, semi-annually and annually.
- Your reports must be received by DEP on the 28th day of the month following the end of the reporting period, unless otherwise specified in Part C of your permit.
- Your permit may require submission of DMRs to other agencies, including the U.S. Environmental Protection Agency (EPA).
- DMRs will generally include pre-populated information for permittee name and address, facility location, permit number, outfall number, permit expiration date, parameter names, and permit requirements. If you identify any errors on a DMR issued by DEP, please contact the DEP regional office that issued your permit. **DO NOT make changes to DMRs issued to you.**
- You may use computer-generated replicas of Form No. 3800-FM-BCW0462 if you receive prior approval from DEP. **DEP reserves the right to instruct you to discontinue the submission of computer-generated DMRs if the permit requirements you entered on the form are inaccurate.**

Instructions

1. Enter statistical results into each blank field below the "VALUE" column headers. Results must be reported in the same units shown on the DMR.
2. Sum the total number of excursions or exceedances of permit limits across the row for each parameter and enter the value into the "NO. EX" field. For example, if the permit contains limits of 6.0 S.U. (Minimum) and 9.0 S.U. (Maximum) for pH, and the Minimum and Maximum results are 5.9 S.U. and 9.1 S.U., respectively, enter "2" into the "NO. EX" field.
3. Report the actual sampling frequency and sample type utilized during the reporting period in the fields corresponding to "Frequency of Analysis" and "Sample Type", respectively.
4. Type the name of the principal executive officer (or an authorized agent designated by a principal executive officer) who is taking responsibility for the report, sign the report (should be in ink), enter the telephone number of the responsible individual, and record the date that the report was signed. Mail only original, signed copies of DMRs.

5. In the Comments section at the bottom of the DMR, you may write a brief summary of violations in this section; however, DEP requests that all violations during the monitoring period be reported in more detail on DEP's **Non-Compliance Reporting Form** (3800-FM-BCW0440) and be submitted as an attachment to the DMR. Other uses of the Comments Section include explanations of attachments to the DMR, explanations for the unavailability of data, and brief summaries of issues that have affected operations or effluent quality during the monitoring period. Always consider attaching a letter or separate document to explain your situation in more detail.

No Discharge or No Data Available

If there was no discharge at all from an outfall during the monitoring period, check the "No Discharge" box on the top of the DMR. Complete the information above and below the table and mail the DMR to the appropriate agencies. Be sure to sign and date the DMR.

If there was no discharge of a specific parameter (e.g., if a chlorine limit is in the permit but chlorine was not used for disinfection during the entire reporting period), or if data are not available for a specific parameter for the entire reporting period, do not leave the DMR blank. Instead, report one of the following No Data Indicator (NODI) codes that apply to your situation in the appropriate value field, and **provide an explanation as an attachment to the DMR**:

- E** All samples or results are not available due to analytical equipment failure, because a sample collection was overlooked, or samples could not be collected for the parameter during the reporting period. Use of this NODI code results in a violation.
- GG** Use if your permit requires sample collection and analysis only under certain conditions and those conditions were not met during the reporting period (e.g., report chlorine results only when chlorination system is used). This includes non-representative outfalls.
- FF** No Data, not covered by NODI codes "E" or "GG." Use in extenuating circumstances where the reason for the absence of data is not covered by NODI codes "E" or "GG." Use of this NODI code results in a violation.

If you have at least one result for a parameter, the value should be reported and not a NODI code.

Note: When the "E" and "FF" NODI codes are used, a comment explaining the violation is required and the Non-Compliance Reporting Form (3800-FM-BCW0440) must accompany the DMR.

Calculations

The following explains how to calculate statistical values that are commonly required by permits:

Monthly Average – For Loading (lbs/day), sum the total of daily loadings and divide by the number of samples during the month. To calculate the daily loading, multiply the daily concentration (mg/l) by the flow (MGD) on the date of sampling and a conversion factor of 8.34. For Concentration, sum the total of daily concentrations and divide by the number of samples.

Weekly Average – For Loading (lbs/day), sum the total of average daily loadings during each week of the reporting period (beginning on a Sunday and ending on a Saturday) and divide by the number of samples during the week. For Concentration, sum the total of daily concentrations each week and divide by the number of samples. Report the maximum weekly average on the DMR.

Maximum Daily ("Daily Max") – Report the maximum concentration or load measured during a 24-hour period during the reporting period; if multiple measurements are taken daily, include all data in the analysis.

Instantaneous Maximum ("IMAX") – Report the maximum result obtained by a grab sample for a specific pollutant over the entire reporting period covered by a DMR.

Instantaneous Minimum ("Minimum") – Report the minimum result obtained by a grab sample for a specific pollutant over the entire reporting period covered by a DMR.

Total Monthly Load (lbs) – Sum the total of average daily loadings, divide by the number of samples during the month, and multiply by the number of days in the month.

Geometric Mean – Report the average of a set of n sample results given by the n th root of their product. If any result is zero (0), substitute 1 for the calculation. For example, five samples were analyzed with the following results: 20, 300, 400, 500, and 0. The calculation of geometric mean is as follows (note that you will need to use the power function on a calculator):

$$\sqrt[5]{20 \cdot 300 \cdot 400 \cdot 500 \cdot 1} = \sqrt[5]{1,200,000,000} = (1,200,000,000)^{1/5} = 65$$

Non-Detect Data

Conventional and Toxic Parameters

For calculating average values of data sets in which there are some "detections" (results at or above the laboratory quantitation limit) and some "non-detect" data (results reported below the laboratory quantitation limit), use the value of the quantitation limit for non-detect data. In other words, ignore the less than (<) symbol for statistical calculations and include the < symbol with the statistical result if there is at least one non-detect result in the data set. For example, four samples were analyzed with the following results: < 1.0, 2.0, < 1.0, and 1.0. The average statistical result is < 1.3.

Estimated values (i.e., values flagged with a "J" qualifier) should not be used for compliance purposes.

Bacteria Parameters

Report all "non-detect" (e.g., < 2) and "too numerous to count" (TNTC) (e.g., > 2,000) results on DMR supplemental forms as reported by the laboratory. Do not report "TNTC" on supplemental forms, but instead report a value qualified with the ">" symbol. Where a data set includes one or more "non-detect" and/or TNTC results, calculate the geometric mean by ignoring qualifying symbols, but report the value with the symbol. If a data set includes both ">" and "<" qualifiers, the ">" qualifier takes precedence for reporting. For all "non-detect" values, specify in the Comments section of the DMR the maximum volume filtered at the laboratory. Note that DEP considers a DMR with reported values qualified by the ">" symbol for bacteria parameters to be a non-compliance.

Example 1 – For results are determined, < 2, 10, 20, and 30. The geometric mean should be reported as < $(2 \cdot 10 \cdot 20 \cdot 30)^{0.25} = < 10$. Specify the maximum volume filtered for the < 2 result in the DMR Comments.

Example 2 – Three results are determined, < 2, 1,000, and > 2,000. The geometric mean should be reported as > $(2 \cdot 1,000 \cdot 2,000)^{0.333} = > 158$.

Rounding and Precision

Statistical values reported on the DMR should be rounded to the same number of decimal places as the limit for the parameter as set forth in the permit. If the permit does not contain a limit but requests monitoring only, statistical values for concentration results should be rounded to the maximum number of decimal places in the data set as reported by the laboratory or the instrument used for analysis. If mass loads must be reported and there is no limit, round statistical values to the nearest whole number, unless the calculated number is less than one, in which case the value should be rounded to one significant figure (e.g., 0.1, 0.05, etc.). If the number you are rounding is followed by 5, 6, 7, 8, or 9, round the number up, otherwise round down.

DEP's "Discharge Monitoring Reports: A Guide to Electronic and Paper DMR Reporting" (3800-BK-DEP3047) publication contains more information and are incorporated by reference. This document is available on DEP's website.

1. PROJECT INFORMATION

Project Name: **Ridley Creek Sanitary Sewer Rehab**

Date of Review: **4/5/2022 03:03:34 PM**

Project Category: **Waste Transfer, Treatment, and Disposal, Liquid waste/Effluent, Sewer line maintenance-repair, replacement of existing line**

Project Area: **0.49 acres**

County(s): **Chester**

Township/Municipality(s): **EAST GOSHEN TOWNSHIP**

ZIP Code:

Quadrangle Name(s): **WEST CHESTER**

Watersheds HUC 8: **Lower Delaware**

Watersheds HUC 12: **Ridley Creek**

Decimal Degrees: **39.995237, -75.539281**

Degrees Minutes Seconds: **39° 59' 42.8535" N, 75° 32' 21.4125" W**

FYI

This is a draft receipt for information only. It has not been submitted to jurisdictional agencies for review.



2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	No Known Impact	No Further Review Required
U.S. Fish and Wildlife Service	Potential Impact	MORE INFORMATION REQUIRED, See Agency Response

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

Ridley Creek Sanitary Sewer Rehab

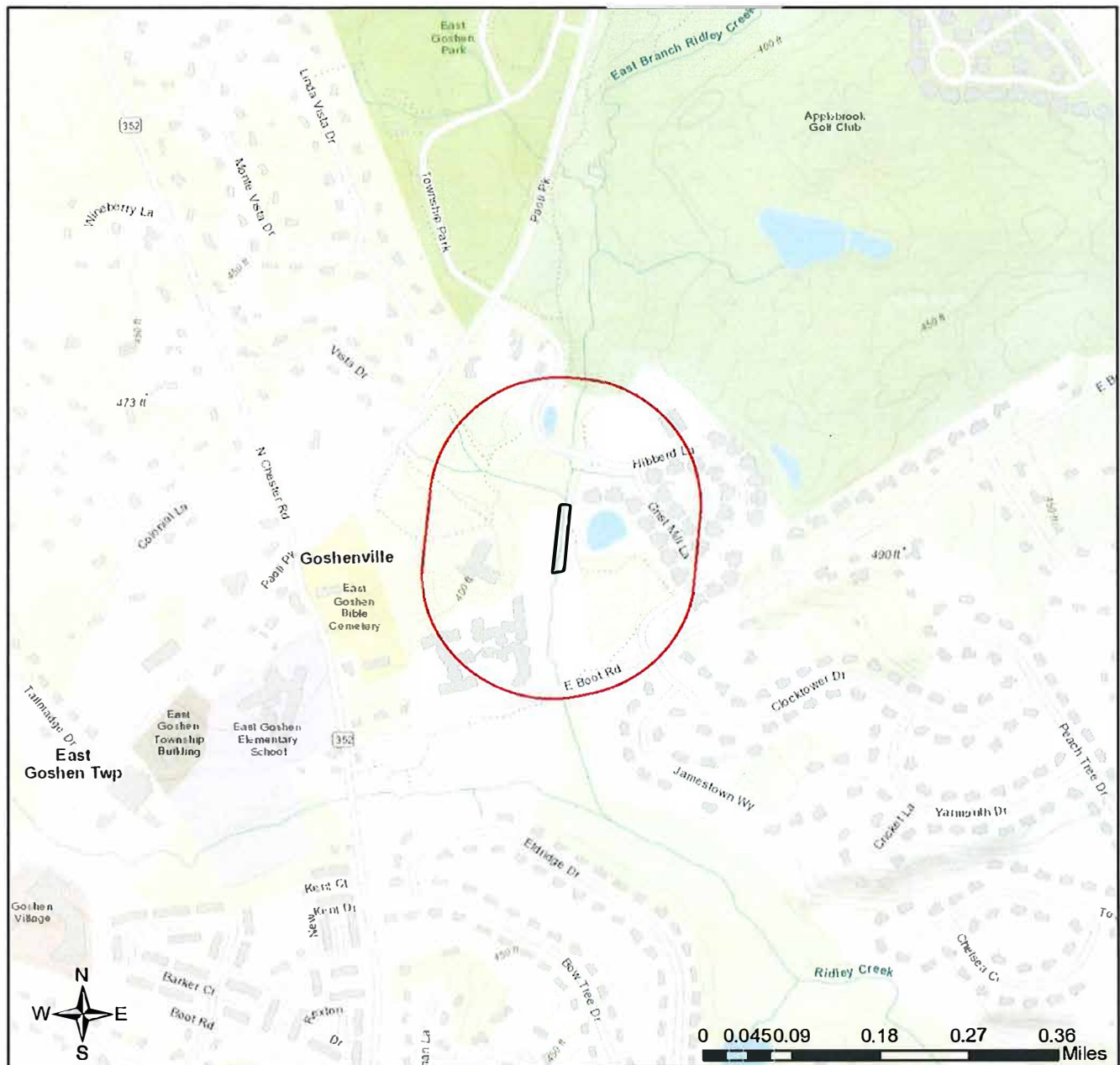


-  Project Boundary
-  Buffered Project Boundary

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
Sources: Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community
NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China



Ridley Creek Sanitary Sewer Rehab



- Project Boundary
- Buffered Project Boundary

Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



RESPONSE TO QUESTION(S) ASKED

Q1: Accurately describe what is known about wetland presence in the project area or on the land parcel by selecting ONE of the following. "Project" includes all features of the project (including buildings, roads, utility lines, outfall and intake structures, wells, stormwater retention/detention basins, parking lots, driveways, lawns, etc.), as well as all associated impacts (e.g., temporary staging areas, work areas, temporary road crossings, areas subject to grading or clearing, etc.). Include all areas that will be permanently or temporarily affected -- either directly or indirectly -- by any type of disturbance (e.g., land clearing, grading, tree removal, flooding, etc.). Land parcel = the lot(s) on which some type of project(s) or activity(s) are proposed to occur.

Your answer is: The project area (or land parcel) has not been investigated by someone qualified to identify and delineate wetlands, or it is currently unknown if the project or project activities will affect wetlands.

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

PA Game Commission

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

U.S. Fish and Wildlife Service

RESPONSE:

Information Request: Conduct a Bog Turtle Habitat (Phase 1) Survey in accordance with USFWS Guidelines for Bog Turtle Surveys (April 2020). Evaluate all wetlands within 300 feet of the project area, which includes all areas that will be impacted by earth disturbance or project features (e.g., roads, structures, utility lines, lawns, detention basins, staging areas, etc.). IF THE PHASE 1 SURVEY IS DONE BY A QUALIFIED BOG TURTLE SURVEYOR (see <https://www.fws.gov/northeast/pafo/endangered/surveys.html>): 1) Send positive results to USFWS for concurrence, along with a project description documenting how impacts will be avoided. OR, conduct a Phase 2 survey and send Phase 1 and 2 results to USFWS for concurrence. 2) Send a courtesy copy of negative results to USFWS (label as "Negative Phase 1 Survey Results by Qualified Bog Turtle Surveyor: USFWS Courtesy Copy"). USFWS approval of negative results is not necessary when a qualified surveyor does the survey in full accordance with USFWS guidelines. IF THE PHASE 1 SURVEY IS NOT DONE BY A QUALIFIED SURVEYOR: Send ALL Phase 1 results to USFWS for concurrence, and if potential habitat is found, also send a project description documenting how impacts will be avoided. As a qualified bog turtle surveyor, I _____ (name) certify that I conducted a Phase 1 survey of all wetlands in and within 300 feet of the project area on _____ (date) and determined that bog turtle habitat is absent.

_____ (Signature)

WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, upload* or email the following information to the agency(s) (see AGENCY CONTACT INFORMATION). Instructions for uploading project materials can be found [here](#). This option provides the applicant with the convenience of sending project materials to a single location accessible to all three state agencies (but not USFWS).

*If information was requested by USFWS, applicants must email, or mail, project information to IR1_ESPenn@fws.gov to initiate a review. USFWS will not accept uploaded project materials.

Check-list of Minimum Materials to be submitted:

_____ Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.

_____ A map with the project boundary and/or a basic site plan (particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)

In addition to the materials listed above, USFWS REQUIRES the following

_____ **SIGNED** copy of a Final Project Environmental Review Receipt

The inclusion of the following information may expedite the review process.

_____ Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)

_____ Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams.

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <https://conservationexplorer.dcnr.pa.gov/content/resources>.

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

**DRAFT
NOT FOR ACTUAL USE**