

Application Type **Renewal**
Facility Type **Municipal**
Major / Minor **Minor**

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. **PA0042951**
APS ID **642878**
Authorization ID **1332179**

Applicant and Facility Information

Applicant Name	<u>Schuylkill County Municipal Authority</u>	Facility Name	<u>Tremont WWTP</u>
Applicant Address	<u>221 South Centre Street</u> <u>Pottsville, PA 17901</u>	Facility Address	<u>Route 125 & Plant Road</u> <u>Tremont, PA 17901</u>
Applicant Contact	<u>Patrick Caulfield</u>	Facility Contact	<u>Stephen Ulceski</u>
Applicant Phone	<u>(570) 622-8240</u>	Facility Phone	<u>(570) 622-8240</u>
Client ID	<u>5024</u>	Site ID	<u>256464</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Tremont Borough</u>
Connection Status	<u>Self-Imposed Connection Prohibition</u>	County	<u>Schuylkill</u>
Date Application Received	<u>October 27, 2020</u>	EPA Waived?	<u>No</u>
Date Application Accepted	<u>November 3, 2020</u>	If No, Reason	<u>Significant CB Discharge</u>
Purpose of Application	<u>Renewal of existing NPDES Permit for discharge of treated sewage.</u>		

Summary of Review

The applicant is requesting the renewal of an NPDES permit to discharge up to 0.5 MGD of treated sewage into Swatara Creek, a Cold-Water Fishery, Migratory Fish (CWF, MF) receiving stream in State Water Plan Basin 7-D (Swatara Creek). As per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than its designated use. This stream segment is not designated as a naturally reproducing trout stream as per PA Fish & Boat Commission. This discharge is not expected to affect public water supplies.

This is a significant Chesapeake Bay Discharger (Phase 3) Minor Facility with existing cap loads.

Limitations for pH, CBOD₅, Total Suspended Solids (TSS), and Fecal Coliform are technology-based and carried over from the previous permit.

A BPJ-based limitation of 5.0 mg/L for Dissolved Oxygen (DO) has been added to the permit. This is an increase from the existing 4.0 mg/l DO limitation. The new limit will come into effect three years after the permit effective date.

Per current Standard Operating Procedures for Publicly Owned Treatment Plants, raw sewage influent TSS and BOD₅ monitoring/ reporting shall be added to the permit. A 2/week frequency has been applied to remain consistent with the discharge sampling frequency.

WQM modeling recommended stricter summertime limitations for Ammonia-Nitrogen (4.8 mg/L monthly average, 9.6 mg/L IMAX). These limitations will come into effect three (3) years after the permit effective date (see Part C.V.). Wintertime monitoring/reporting for Ammonia-Nitrogen has also been updated to three times the new summertime limitations (14.4 mg/L monthly average, 28.8 mg/L IMAX). The limitations for Ammonia-Nitrogen from the previously issued permit will be in effect the first three (3) years of the permit. eDMR data from the past year confirms the facility should be able to meet these new limits.

Approve	Deny	Signatures	Date
X		/s/ Allison Seyfried Zukosky / Project Manager	January 28, 2025
X		/s/ Amy M. Bellanca, P.E. / Program Manager	2-4-25

Summary of Review

The Total Residual Chlorine (TRC) Calculation Spreadsheet recommends stricter limitations than the previous permit. The permittee will be required to meet the new water quality-based limits for TRC starting three years after the effective date of the permit (see Part C.III.). TRC limitations from the previously issued permit are in effect for the first three years after the permit effective date.

Sewage discharges now require monitoring and reporting for E. Coli. A monitoring frequency of 1/month for design flows \geq 1 MGD, 1/quarter for design flows \geq 0.05 and $<$ 1 MGD, 1/year for design flows of 0.002 – 0.05 MGD will be utilized.

A final Total Maximum Daily Load (TMDL) exists for the Swatara Creek Watershed. The TMDL addresses metals (iron, manganese, and aluminum) and pH associated with acid mine drainage (AMD). The facility uses Aluminum Chloride additives for phosphorus reduction at 10 gallons per day, as well as the option to switch to ferric chloride. The effluent limits for Total Aluminum and reporting requirement for Total Iron are being maintained in the permit.

The monitoring and reporting for Total Nitrogen, Total Kjeldahl Nitrogen, and Nitrate-Nitrite as N has been maintained in this permit.

For this permit renewal, all monitoring frequencies for parameters with limitations are consistent with the Department's *Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits* (document no. 362-0400-001).

Pollutant sampling results submitted with the permit application were entered into the Toxic Management Spreadsheet (TMS). The highest reported Total Copper concentration was 0.011 mg/L and the highest Total Zinc concentration was 0.031 mg/L. The TMS recommended limits for Total Copper and monitoring/reporting for Total Zinc. The permittee was given the opportunity to conduct a minimum of 10 additional effluent samples for these parameters. The permittee collected 10 additional samples during November 2020 through January 2021 and provided the results to the Department via email on February 23, 2021 (results can be seen in a summarized table on page 11 of this Fact Sheet). These updated results were used to re-run the modeling. The modeling indicated the Copper limits and Total Zinc monitoring/reporting should still be established.

Therefore, Total Copper limitations were added to the permit and will come into effect three years after the permit effective date. Monitoring/reporting requirements are included in the permit until the limitations come into effect. 1/month monitoring/reporting for Total Zinc has also been included. The Part C.IV condition regarding Toxics Reduction Evaluations (TREs) is added to the permit and applies to Total Copper. The permittee will have the option to accept the implementation of the limitations or to perform site-specific studies to verify or refine the WQBELs.

There are multiple stream gages in the vicinity of the outfall, however the data from these stream gages are older and most of the stream gages are also considerably downstream from the outfall. The previous permit used USGS Stream Gage 01572025 Swatara Creek near Pine Grove, PA. This Stream Gage has a drainage area of 116mi², which is much larger than the 9.68mi² drainage area of outfall 001. The Stream Gage also accounts for multiple tributaries that do not affect the stream near Outfall 001. Therefore, USGS Streamstats was used to calculate the Low Flow Yield (LFY). RMI values were obtained using the "PA Historic Streams" feature of eMapPA, drainage areas were delineated using USGS's StreamStats Interactive Map, and elevations were obtained using the elevation profile feature of StreamStats.

Please note that the StreamStats calculated values are less strict than when using the state-wide default LFY of 0.1 cfs/mi². The values calculated using the USGS Stream Gage data also resulted in the modeling recommending stricter limits.

The existing permit expired on April 30, 2021 and the application for renewal was received on October 27, 2020.

A Water Management System Inspection query indicated that on September 15, 2021 a Compliance Evaluation was performed.

There are currently five open violations for this client that may need to be resolved before issuance of the final permit:

1. 11/07/2023 - Violation ID 8164411 – Violation Code D6A – Failure of a community water system to develop and/or update an operation and maintenance plan. (Safe Drinking Water - Program Specific ID: 3540038).

Summary of Review

2. 06/06/2024 - Violation ID 8193459 – Violation Code 92A.44 – NPDES - Violation of effluent limits in Part A of permit. (WPC NPDES - Program Specific ID: PA0062197).
3. 09/24/2024 - Violation ID 8202209 – Violation Code 92A.44 – NPDES - Violation of effluent limits in Part A of permit. (WPC NPDES - Program Specific ID: PA0062529).
4. 09/24/2024 - Violation ID 8202210 – Violation Code 92A.41(A)12B – NPDES - Failure to submit monitoring report(s) or properly complete monitoring reports. (WPC NPDES - Program Specific ID: PA0062529).
5. 05/12/2023 - Violation ID 994605 – Violation Code 27 – Disinfection/disinfection byproducts monitoring/reporting violation. (WPC NPDES - Program Specific ID: SM2321676).

Sludge use and disposal description and location(s): As per the permittee's NPDES renewal application, sludge is hauled to Commonwealth Environmental Systems (CES) located in Hegins, PA by County Waste.

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	0.5
Latitude	40° 37' 11.90"	Longitude	-76° 22' 56.29"
Quad Name	Pine Grove	Quad Code	1434
Wastewater Description: Sewage Effluent			
Receiving Waters	Swatara Creek (CWF, MF)	Stream Code	9361
NHD Com ID	56394609	RMI	64.76
Drainage Area	9.68 mi ²	Yield (cfs/mi ²)	0.107
Q ₇₋₁₀ Flow (cfs)	1.04	Q ₇₋₁₀ Basis	USGS StreamStats
Elevation (ft)	748.5	Slope (ft/ft)	-
Watershed No.	7-D	Chapter 93 Class.	CWF
Existing Use	-	Existing Use Qualifier	-
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	Impaired		
Cause(s) of Impairment	METALS, PH		
Source(s) of Impairment	ACID MINE DRAINAGE		
TMDL Status	Final	Name	Upper Swatara Creek Watershed
Nearest Downstream Public Water Supply Intake	Lebanon City Authority		
PWS Waters	Swatara Creek	Flow at Intake (cfs)	-
PWS RMI	~ 42	Distance from Outfall (mi)	~ 22 miles

Treatment Facility Summary				
Treatment Facility Name: Tremont WWTP				
WQM Permit No.	Issuance Date			
5405405	2/3/2006			
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Activated Sludge	Chlorination	0.43 (2017-2019)
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.5	660	Not Overloaded	Holding Tank / Sludge Press	Hauled

Compliance History

DMR Data for Outfall 001 (from December 1, 2023 to November 30, 2024)

Parameter	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24	FEB-24	JAN-24	DEC-23
Flow (MGD) Average Monthly	0.25	0.22	0.25	0.39	0.28	0.30	0.42	0.62	0.61	0.43	0.63	0.55
Flow (MGD) Daily Maximum	0.50	0.44	0.36	0.94	0.9	0.49	0.65	1.56	1.16	0.89	1.41	1.40
pH (S.U.) Minimum	6.74	6.94	6.85	6.87	6.93	7.04	6.92	6.74	6.87	6.98	6.80	6.90
pH (S.U.) Maximum	7.21	7.49	7.42	7.26	7.50	7.62	7.30	7.26	7.50	7.35	7.39	7.28
DO (mg/L) Minimum	7.24	6.30	6.55	6.53	6.39	7.0	6.76	7.39	8.15	8.07	6.8	8.40
TRC (mg/L) Average Monthly	0.21	0.28	0.27	0.25	0.27	0.28	0.24	0.29	0.25	0.24	0.32	0.26
TRC (mg/L) Instantaneous Maximum	0.34	0.46	0.46	0.44	0.47	0.60	0.35	0.59	0.68	0.37	0.76	0.43
CBOD5 (lbs/day) Average Monthly	4.78	4.06	4.37	5.63	4.11	5.29	6.61	10.69	9.37	7.02	11.19	10.97
CBOD5 (lbs/day) Weekly Average	7.68	5.08	5.93	7.87	4.46	6.73	9.86	17.90	11.61	8.53	15.24	13.45
CBOD5 (mg/L) Average Monthly	2.16	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.21	2.21	2.65
CBOD5 (mg/L) Weekly Average	2.65	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.85	3.0	4.60
TSS (lbs/day) Average Monthly	2.31	3.34	5.22	3.15	2.06	2.94	6.22	10.32	6.76	7.40	13.27	10.0
TSS (lbs/day) Weekly Average	2.69	4.69	10.37	3.98	2.23	3.64	9.86	21.98	9.09	14.09	21.89	17.58
TSS (mg/L) Average Monthly	1.13	1.70	2.25	1.13	1.0	1.13	1.80	1.75	1.38	2.38	2.70	2.25
TSS (mg/L) Weekly Average	1.50	2.50	3.50	1.50	1.0	1.50	2.50	2.50	1.50	8.53	5.0	3.0
Fecal Coliform (CFU/100 ml) Geometric Mean	2.0	2.0	2.0	2.0	2.91	2.10	2.08	2.10	2.0	2.0	2.37	2.0
Fecal Coliform (CFU/100 ml) Instantaneous Maximum	2.0	2.0	2.0	2.0	7	3.0	3.0	3	2.0	2.0	11	2.0

**NPDES Permit Fact Sheet
Tremont WWTP**

NPDES Permit No. PA0042951

Nitrate-Nitrite (mg/L) Average Monthly	8.88	5.10	4.69	4.24	3.52	3.65	4.79	4.51	4.3	3.54	4.5	4.5
Nitrate-Nitrite (lbs) Total Monthly	559.65	335.22	308.93	357.48	223.30	298.48	505.41	693.27	623.74	330.20	709.24	628.05
Total Nitrogen (mg/L) Average Monthly	9.44	5.62	5.57	4.74	4.08	4.23	5.47	5.02	4.8	4.05	5.0	5.2
Total Nitrogen (lbs) Effluent Net Total Monthly	595.31	367.56	372.82	401.08	258.75	345.43	568.97	775.01	698.67	378.04	794.09	727.16
Total Nitrogen (lbs) Total Monthly	595.31	367.56	372.82	401.08	258.75	345.43	568.97	775.01	698.67	378.04	794.09	727.16
Total Nitrogen (lbs) Effluent Net Total Annual			5609									
Total Nitrogen (lbs) Total Annual			5609									
Ammonia (lbs/day) Average Monthly	0.26	0.29	1.16	0.19	0.13	0.38	0.41	0.82	0.52	0.13	0.76	1.2
Ammonia (mg/L) Average Monthly	0.12	0.18	0.45	0.06	0.07	0.16	0.17	0.20	0.14	0.04	0.15	0.2
Ammonia (lbs) Total Monthly	7.74	8.92	34.79	6.04	4.11	11.45	12.66	24.71	16.25	3.74	23.50	37.02
Ammonia (lbs) Total Annual			5407									
TKN (mg/L) Average Monthly	0.56	0.52	0.88	0.50	0.56	0.58	0.68	0.51	0.5	0.52	0.5	0.7
TKN (lbs) Total Monthly	35.67	32.34	63.90	43.60	35.45	46.95	63.57	81.74	74.93	47.84	84.85	99.11
Total Phosphorus (lbs/day) Average Monthly	2.09	2.31	1.51	2.48	3.53	3.27	3.77	2.77	2.6	1.62	1.8	2.2
Total Phosphorus (lbs/day) Weekly Average	4.02	3.40	2.11	4.49	4.99	4.11	5.73	5.51	2.87	2.42	4.09	2.70
Total Phosphorus (mg/L) Average Monthly	0.94	1.11	0.7	0.86	1.75	1.25	1.13	0.51	0.6	0.50	0.40	0.5
Total Phosphorus (mg/L) Weekly Average	1.50	1.28	1.04	1.12	2.47	1.53	1.50	0.65	0.7	0.67	0.59	0.65
Total Phosphorus (lbs) Effluent Net Total Monthly	62.75	71.57	45.44	77.01	109.41	98.20	116.78	83.11	81.97	47.07	56.88	68.20
Total Phosphorus (lbs) Total Monthly	62.75	71.57	45.44	77.01	109.41	98.20	116.78	83.11	81.97	47.07	56.88	68.20

**NPDES Permit Fact Sheet
Tremont WWTP**

NPDES Permit No. PA0042951

Total Phosphorus (lbs) Effluent Net Total Annual			943									
Total Phosphorus (lbs) Total Annual			943									
Total Aluminum (mg/L) Average Monthly	0.05	0.06	0.07	0.08	0.03	0.02	0.04	0.03	0.03	0.03	0.03	0.03
Total Aluminum (mg/L) Daily Maximum	0.07	0.15	0.15	0.17	0.09	0.03	0.05	0.06	0.04	0.07	0.04	0.07
Total Iron (mg/L) Average Monthly	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG
Total Iron (mg/L) Daily Maximum	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG

Development of Effluent Limitations

Outfall No. 001
Latitude 40° 37' 12.60"
Wastewater Description: Sewage Effluent

Design Flow (MGD) 0.5
Longitude -76° 22' 56.00"

Technology-Based Limitations

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Pollutant	Limit (mg/l)	SBC	Federal Regulation	State Regulation
CBOD ₅	25.0	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	40.0	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
	50.0	IMAX		
Total Suspended Solids	30.0	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	45.0	Average Weekly	133.102(b)(2)	92a.47(a)(2)
	60.0	IMAX		
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform (5/1 – 9/30)	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
Fecal Coliform (5/1 – 9/30)	1,000 / 100 ml	IMAX	-	92a.47(a)(4)
Fecal Coliform (10/1 – 4/30)	2,000 / 100 ml	Geo Mean	-	92a.47(a)(5)
Fecal Coliform (10/1 – 4/30)	10,000 / 100 ml	IMAX	-	92a.47(a)(5)
Dissolved Oxygen	5.0	Minimum	-	BPJ
E. Coli	Report	IMAX	-	92a.61

Water Quality-Based Limitations

The following limitations were determined through water quality modeling:

Parameter	Limit (mg/l)	SBC	Model
Total Residual Chlorine	0.21	Average Monthly	TRC Calculation Spreadsheet
	0.67	IMAX	
Ammonia-Nitrogen May 1 - Oct 31	4.8	Average Monthly	WQM 7.0
	9.6	IMAX	
Ammonia-Nitrogen Nov 1 - Apr 30	14.4	Average Monthly	
	28.8	IMAX	
Total Copper	0.021	Average Monthly	Toxic Modeling Spreadsheet
	0.033	Daily Max	
	0.053	IMAX	
Total Zinc	Report	Average Monthly	Chesapeake Bay Discharger
Total Phosphorus	2.0	Average Monthly	
	3.0	Average Weekly	
	4.0	IMAX	
Total Suspended Solids Raw Sewage Influent	Report	Average Monthly	SOP for Publicly Owned Sewage Works
CBOD ₅ Raw Sewage Influent	Report	Average Monthly	
Total Aluminum*	0.95	Average Monthly	Previous Permit / Swatara Creek TMDL
	1.49	Daily Max	
Total Iron*	Report	Average Monthly	
		Daily Max	

*when discharging

Anti-Backsliding

No limitations were made less stringent.

Modeling Using StreamStats

At Outfall 001 on Swatara Creek:

RMI	Elevation (ft)	Drainage Area (mi ²)	Q ₇₋₁₀ Flow (cfs)
64.76	748.5	9.68	1.04

$$\text{Low Flow Yield using StreamStats} = \frac{1.04 \text{ ft}^3/\text{sec}}{9.68 \text{ mi}^2} = 0.1074 \frac{\text{ft}^3/\text{sec}}{\text{mi}^2}$$

StreamStats Report

Region ID:

Workspace ID:

Clicked Point (Latitude, Longitude):

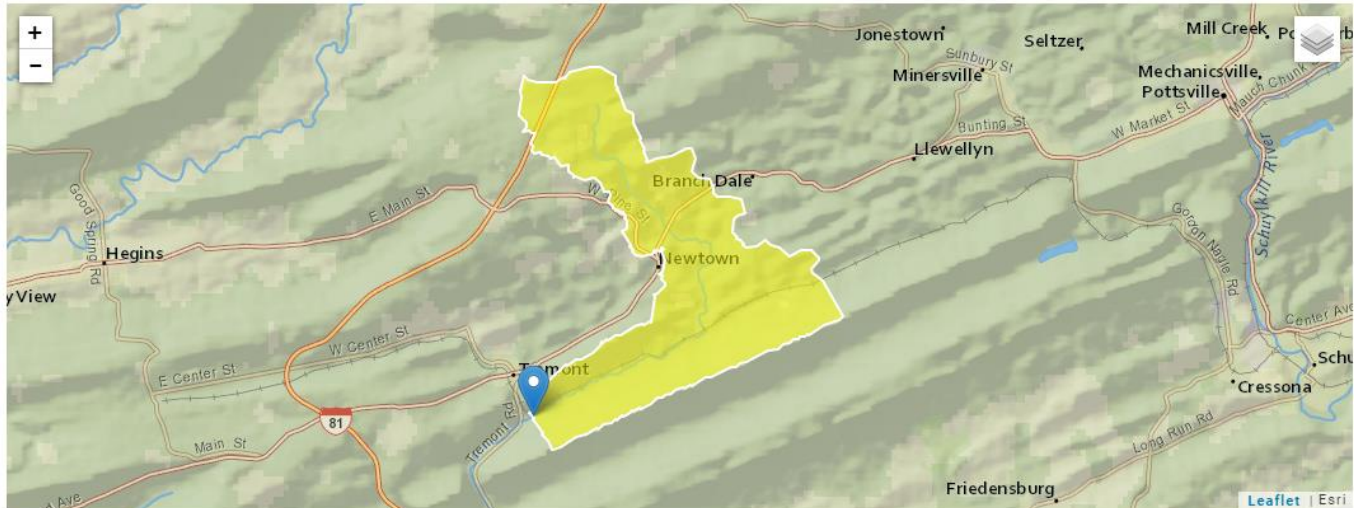
Time:

PA

PA20201104132845038000

40.62003, -76.38219

2020-11-04 08:29:02 -0500



Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	9.68	square miles

Statistic	Value	Unit	SE	SEp
7 Day 2 Year Low Flow	2.26	ft ³ /s	38	38
30 Day 2 Year Low Flow	3	ft ³ /s	33	33
7 Day 10 Year Low Flow	1.04	ft ³ /s	51	51

At confluence of Black Creek (10077):

RMI	Elevation (ft)	Drainage Area (mi ²)
0.00	655	32.7
62.55 (Little Schuylkill)		

StreamStats Report

Region ID:

PA

Workspace ID:

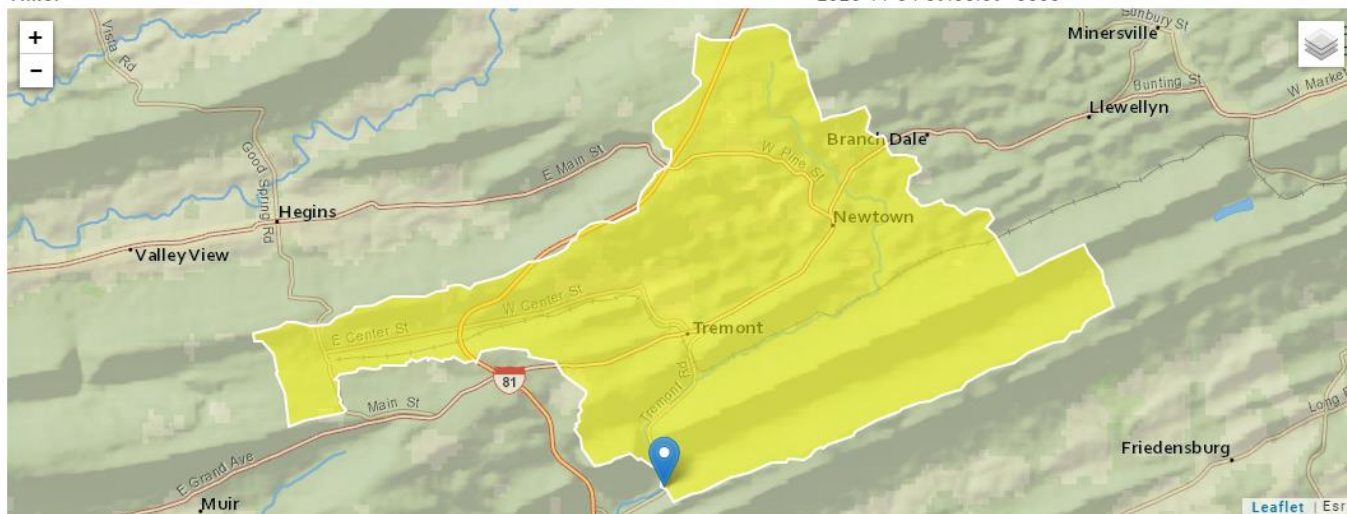
PA20201104140252595000

Clicked Point (Latitude, Longitude):

40.59714, -76.39369

Time:

2020-11-04 09:03:09 -0500



Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	32.7	square miles

Modeling Using Stream Gage

Stream Gage: 1572025 – Swatara Creek near Pine Grove, PA – Drainage Area = 116 mi²

- $Q_{710} = 16.4 \text{ ft}^3/\text{sec}$
- Period of record used in Analysis: 1990-2008

$$\text{Low Flow Yield (LFY) using Stream Gage 1572025} = \frac{16.4 \text{ ft}^3/\text{sec}}{116 \text{ mi}^2} = 0.14 \frac{\text{ft}^3/\text{sec}}{\text{mi}^2}$$

$$\frac{0.14 \text{ ft}^3/\text{sec}}{\text{mi}^2} \times 9.68 \text{ mi}^2 = \frac{1.36 \text{ ft}^3}{\text{sec}}$$

Modeling with State-Wide default LFY

$$\frac{0.1 \text{ ft}^3/\text{sec}}{\text{mi}^2} \times 9.68 \text{ mi}^2 = \frac{0.968 \text{ ft}^3}{\text{sec}}$$

WQM 7.0 Effluent Limits

SWP Basin	Stream Code	Stream Name					
07D	9361	SWATARA CREEK					
RMI	Name	Permit Number	Disc Flow (mgd)	Parameter	Effl. Limit 30-day Ave. (mg/L)	Effl. Limit Maximum (mg/L)	Effl. Limit Minimum (mg/L)
64.760	SCMA Tremont TP	Pa0042951	0.500	CBOD5	25		
				NH3-N	4.76	9.52	
				Dissolved Oxygen			3

TRC EVALUATION					
Input appropriate values in A3:A9 and D3:D9					
1.04	= Q stream (cfs)	0.5	= CV Daily		
0.5	= Q discharge (MGD)	0.5	= CV Hourly		
30	= no. samples	1	= AFC_Partial Mix Factor		
0.3	= Chlorine Demand of Stream	1	= CFC_Partial Mix Factor		
0	= Chlorine Demand of Discharge	15	= AFC_Criteria Compliance Time (min)		
0.5	= BAT/BPJ Value	720	= CFC_Criteria Compliance Time (min)		
0	= % Factor of Safety (FOS)		=Decay Coefficient (K)		
Source	Reference	AFC Calculations		Reference	CFC Calculations
TRC	1.3.2.iii	WLA afc = 0.448		1.3.2.iii	WLA cfc = 0.429
PENTOXSD TRG	5.1a	LTAMULT afc = 0.373		5.1c	LTAMULT cfc = 0.581
PENTOXSD TRG	5.1b	LTA_afc= 0.167		5.1d	LTA_cfc = 0.249
Source	Effluent Limit Calculations				
PENTOXSD TRG	5.1f	AML MULT = 1.231			
PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l) = 0.205		AFC	
		INST MAX LIMIT (mg/l) = 0.672			

Submitted Additional Sample Results for Total Copper and Total Zinc:

Date Sampled	Copper (mg/L)	Zinc (mg/L)
11/09/2020	0.019	0.04
11/16/2020	0.02	0.04
11/23/2020	0.014	0.04
12/02/2020	0.01*	0.04
12/09/2020	0.02	0.04
12/18/2020	0.01*	0.05
12/21/2020	0.01*	0.05
12/29/2020	0.01	0.03
1/06/2021	0.004	0.04
1/20/2021	<0.02	0.04
Average	0.0137	0.041

* Non-detect, used Reporting Limit

Recommended WQBELs & Monitoring Requirements:

Pollutants	Mass Limits		Concentration Limits				Governing WQBEL	WQBEL Basis	Comments
	AML (lbs/day)	MDL (lbs/day)	AML	MDL	IMAX	Units			
Total Copper	0.088	0.14	21.0	32.7	52.5	µg/L	21.0	AFC	Discharge Conc ≥ 50% WQBEL (RP)
Total Zinc	Report	Report	Report	Report	Report	µg/L	180	AFC	Discharge Conc > 10% WQBEL (no RP)

The Phase 3 Watershed Implementation Plan (WIP) provides an update on Chesapeake Bay TMDL implementation activities for point sources and DEP's current implementation strategy for wastewater. The latest revision of the supplement was September 13, 2021 (see below).

Phase 3 WIP Wastewater Supplement
Revised, September 13, 2021

NPDES Permit No.	Phase	Facility	Latest Permit Issuance Date	Permit Expiration Date	Cap Load Compliance Start Date	TN Cap Load (lbs/yr)	TN Offsets Included in Cap Load (lbs/yr)	TP Cap Load (lbs/yr)	TN Delivery Ratio	TP Delivery Ratio
PA0030643	1	Shippensburg Borough Authority	9/29/2015	1/31/2019	10/1/2010	60,273	-	8,036	0.951	0.436
PA0032051	2	Granville Township	5/6/2020	9/30/2022	10/1/2011	15,196	-	1,899	0.88	0.436
PA0032492	3	DCNR Bald Eagle State Park	6/15/2017	6/30/2022	10/1/2013	8,219	-	1,096	0.93	0.436
PA0032557	3	Logan Township	5/22/20	5/31/2025	10/1/2008*	15,013	-	1,876	0.88	0.436
PA0032883	2	Duncansville Borough	6/23/20	6/30/2025	10/1/2011	22,228	-	2,963	0.88	0.436
PA0034576	2	Towanda Municipal Authority	9/14/2015	9/30/2020	10/1/2010	21,187	-	2,825	0.733	0.436
PA0036269	3	Stewartstown Borough	8/11/2021	8/31/2026	10/1/2010	11,415	-	1,522	1	1
PA0036820	3	Gaileton Borough Authority	9/29/2011	9/30/2016	10/1/2011	9,132	-	1,218	0.93	0.436
PA0037150	1	Penn Township	6/1/2017	6/30/2022	10/1/2011	76,711	-	10,228	0.961	0.436
PA0037711	3	Everett Boro Municipal Authority	4/19/2021	4/30/2026	10/1/2013	15,890	-	2,119	0.897	0.436
PA0037737	3	Elizabethville Area Authority	12/14/2017	12/31/2022	10/1/2013	7,306	-	974	0.836	0.436
PA0037966	2	Moshannon Valley Joint Sanitary Authority	11/15/2017	12/31/2021	10/1/2012	37,205	-	4,960	0.836	0.436
PA0038385	3	Defense Distribution Depot Susquehanna	5/25/2017	5/31/2022	10/1/2011	9,132	-	1,218	0.961	0.436
PA0038415	1	East Pennsboro Township	12/16/2015	12/30/2020	10/1/2012	72,206	-	9,589	0.951	0.436
PA0038865	3	Zerbe Township Municipal Authority	3/26/2021	3/31/2026	10/1/2015	7,306	-	974	0.951	0.436
PA0038920	3	Burnham Borough	3/23/2016	3/31/2021	10/1/2013	11,689	-	1,559	0.880	0.436
PA0042269	1	Lancaster Area Sewer Authority	9/24/2018	4/30/2021	10/1/2010	310,498	-	41,400	0.970	0.436
PA0042951	3	Tremont Municipal Authority	4/22/2016	4/30/2021	10/1/2013	9,132	-	1,218	0.961	0.436
PA0043257	3	New Freedom Borough	10/22/2015	9/30/2020	10/1/2015	41,095	-	5,479	0.961	0.436
PA0043273	2	Holidaysburg Regional Sewer Authority	2/10/2017	2/28/2022	10/1/2012	109,588	-	14,612	0.88	0.436
PA0043575	3	Lykens Borough	2/5/2018	2/28/2023	10/1/2012	7,488	-	998	0.951	0.436
PA0043681	3	Valley Joint Sewer Authority	10/18/2017	10/31/2022	10/1/2012	41,095	-	5,479	0.495	0.436
PA0043893	3	Western Clinton County Municipal Authority	7/21/2017	7/31/2022	10/1/2011	16,438	-	2,192	0.93	0.436



Updated TMS
PA0042951.pdf