

Application Type Renewal
Facility Type Industrial
Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL INDUSTRIAL WASTE (IW)
AND IW STORMWATER**

Application No. PA0062529
APS ID 613192
Authorization ID 1455865

Applicant and Facility Information

Applicant Name	<u>Schuylkill County Municipal Authority</u>	Facility Name	<u>Broad Mountain WTP</u>
Applicant Address	<u>221 South Centre Street</u> <u>Pottsville, PA 17901-3506</u>	Facility Address	<u>1371 State Route 61 Highway 17 (North)</u> <u>Pottsville, PA 17901</u>
Applicant Contact	<u>Patrick M. Caulfield, Executive Director</u>	Facility Contact	<u>Troy K. Miller, Environmental Manager</u>
Applicant Phone	<u>(570) 622-8240</u>	Facility Phone	<u>(570) 622-8240</u>
Client ID	<u>5024</u>	Site ID	<u>444514</u>
SIC Code	<u>4941</u>	Municipality	<u>Blythe Township</u>
SIC Description	<u>Trans. & Utilities - Water Supply</u>	County	<u>Schuylkill</u>
Date Application Received	<u>September 20, 2023</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>September 27, 2023</u>	If No, Reason	<u>-</u>
Purpose of Application	<u>Renewal of NPDES permit for discharge of treated sewage.</u>		



Summary of Review

The applicant is requesting the renewal of an NPDES permit to discharge process wastewater into Wolf Creek, a Cold-Water Fishery, Migratory Fish (CWF, MF) receiving stream in State Water Plan Basin 3-A (Schuylkill River). 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.

Limits for pH, Total Suspended Solids (TSS), Total Iron, and Total Manganese are technology-based limits obtained from the 1997 DEP "Technology-Based Control Requirements for Water Treatment Plant Wastes" (doc no. 362-2183-003). These limits have been maintained in this permit renewal.

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.

Pollutant sampling results submitted with the permit application were entered into the Toxic Management Spreadsheet (TMS). The TMS recommended limits for Dissolved Iron, Total Thallium, and Total Zinc and monitoring/reporting for Total Aluminum. The permittee was given the opportunity to conduct a minimum of 10 additional effluent samples for these parameters. The permittee was also informed that when a pollutant tests as non-detect, the Department must use the laboratory quantitation limit (or reporting limit) as the pollutant concentration for modeling purposes. For example, the Target QL Value for Total Thallium is 2.0 µg/L; however, it appeared the QL used in the initial sample results was 3.0 µg/L. It was suggested that if the permittee chooses to conduct the ten (10) additional samples, then the lower laboratory quantitation limits for each parameter should be used.

Approve	Deny	Signatures	Date
X		 Allison Seyfried Zukosky / Project Manager	October 22, 2025
X		 Edward Dudick, P.E. / Environmental Engineer Manager	October 22, 2025

Summary of Review

The permittee collected 10 additional samples during March 2025 through May 2025 and provided the results to the Department via email on October 2, 2025. The summary of the sample results can be found in the table on page 4 of this fact sheet. These updated sample results were used to re-run the modeling.

Please note that the same QL that was used for the initial Total Thallium sampling was used again in the additional sampling.

The updated modeling indicated that limitations should be established for Total Thallium and stricter limitations than the previous permit should be established for Total Zinc. Monitoring/reporting was also still recommended for Dissolved Iron. Therefore, the Total Thallium and Total Zinc 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 for Total Thallium until the limitations come into effect. The Total Zinc limitations from the previous permit are still in effect until the new limitations begin. Monitoring/reporting was also added for Dissolved Iron beginning at the permit effective date.

The Total Aluminum limitations from the previous permit will be maintained in this permit. Modeling did not recommend stricter limitations.

The NPDES renewal application indicated the design flow and maximum flow during production was 0.14 MGD. This value was used for the preliminary modeling that the preliminary limitations were based off. During the technical review it was discovered that the previous permit utilized a flow of 0.164 MGD. This is the same value that the DRBC docket utilizes. Therefore, the modeling was performed with a flow of 0.164 MGD. This resulted in monitoring/reporting also being recommended for Total Silver. The monitoring/reporting for Total Silver was added to the permit.

DRBC Docket No. D-1991-016 CP-4 does not contain more stringent or additional requirements beyond the NPDES permit.

There are no representative stream gages in the vicinity of the outfall and the drainage area at Outfall 001 is too small for USGS StreamStats to estimate accurate low flow values. Therefore, the default Low Flow Yield (LFY) of 0.1 cfs/mi² was used to model the discharge. For modeling inputs, 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. StreamStats data and the TMS data can be seen starting on page 3 of this fact sheet.

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).

The existing permit expired on April 30, 2024 and the application for renewal was received on time.

A Water Management System Inspection query indicated a Compliance Evaluation was performed on September 24, 2024.

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

1. 05/9/2025 - Violation ID 8232418 – Violation Code C4A – Failure to operate and maintain the water system. (Safe Drinking Water - Program Specific ID: 3540038).
2. 06/6/2024 - Violation ID 8193459 – Violation Code 92A.44 – NPDES - Violation of effluent limits in Part A of permit (WPC NPDES - Program Specific ID: PA0062197).
3. 06/24/2024 - Violation ID 8202209 – Violation Code 92A.44 – NPDES - Violation of effluent limits in Part A of permit (WPC NPDES - Program Specific ID: PA0062197).
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: PA0062197).

Summary of Review

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.

StreamStats Data:

At Outfall 001 on Wolf Creek (2355):

RMI	Elevation (ft)	Drainage Area (mi ²)	Q ₇₋₁₀ Flow (cfs)
0.52	1,034.56	3.89	0.493

Low Flow Yield using StreamStats = $\frac{0.493 \text{ ft}^3/\text{sec}}{3.89 \text{ mi}^2} = 0.127 \frac{\text{ft}^3/\text{sec}}{\text{mi}^2}$

StreamStats Report

Region ID:

Workspace ID:

Clicked Point (Latitude, Longitude):

Time:

PA

PA20241015184708893000

40.74257, -76.19049

2024-10-15 14:47:31 -0400

Parameter Code	Parameter Name	Value	Units
DRNAREA	Drainage Area	3.89	square miles

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

Statistic	Value	Unit
7 Day 2 Year Low Flow	1.05	ft ³ /s
30 Day 2 Year Low Flow	1.37	ft ³ /s
7 Day 10 Year Low Flow	0.493	ft ³ /s

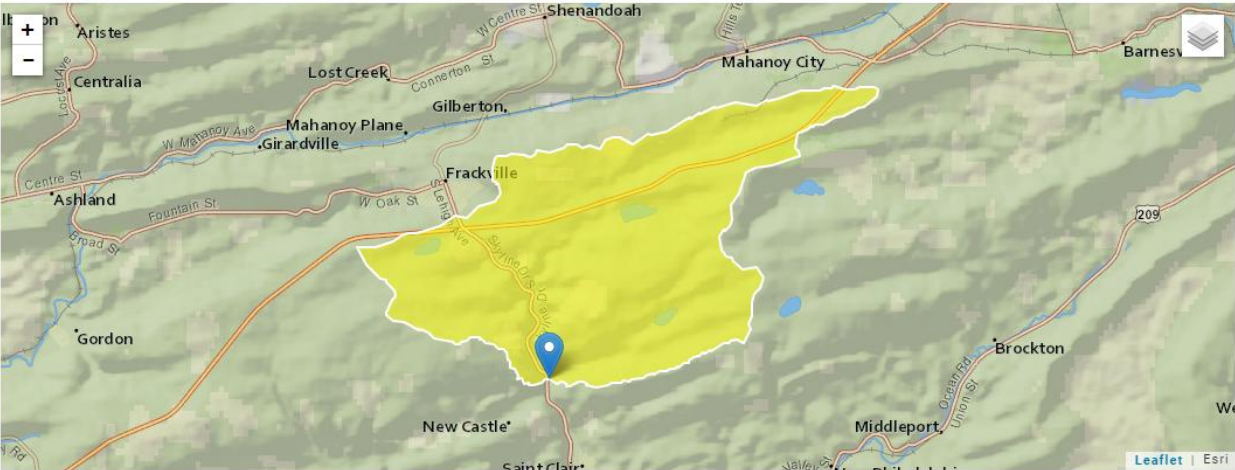
Summary of Review

At confluence with Mill Creek (2353):

RMI	Elevation (ft)	Drainage Area (mi ²)
0.0		
4.13 (On Mill Creek)	907.53	18

StreamStats Report

Region ID:PA
Workspace ID:PA20241015185141755000
Clicked Point (Latitude, Longitude):40.73976, -76.19995
Time:2024-10-15 14:52:06 -0400



Parameter Code	Parameter Name	Value	Units
DRNAREA	Drainage Area	18	square miles

Using the state-wide Low-Flow Yield (LFY) of 0.1 cfs/mi² :

$$\frac{0.1 \text{ ft}^3/\text{sec}}{\text{mi}^2} \times 3.89 \text{ mi}^2 = \frac{0.389 \text{ ft}^3}{\text{sec}}$$

Additional Sample Results Summary:

	Total Aluminum (mg/L)	Dissolved Iron (mg/L)	Total Thallium (mg/L)	Total Zinc (mg/L)	
3/5/2025	0.12	0.02	<0.003	0.094	
3/12/2025	0.31	0.04	<0.003	0.087	
3/19/2025	0.56	0.03	<0.003	0.05	
3/26/2025	0.28	0.03	<0.003	0.071	
4/2/2025	0.47	0.07	<0.003	0.148	
4/10/2025	0.54	0.06	<0.003	0.084	
4/16/2025	0.48	0.05	<0.003	0.073	
4/22/2025	0.57	0.61	<0.003	0.07	
4/29/2025	0.39	0.14	<0.003	0.094	
5/6/2025	0.18	0.05	<0.003	0.061	
Total:	0.390	0.110	<0.003	0.083	mg/L
	390.00	110.0	3.0	83.2	µg/L

Summary of Review



Toxics Management Spreadsheet
Version 1.4, May 2023

Discharge Information

Instructions Discharge Stream

Facility: SCMA - Broad Mountain WTP NPDES Permit No.: PA0062529 Outfall No.: 001

Evaluation Type: Major Sewage / Industrial Waste Wastewater Description: Industrial Wastewater

Discharge Characteristics								
Design Flow (MGD)*	Hardness (mg/l)*	pH (3U)*	Partial Mix Factors (PMFs)				Complete Mix Times (min)	
			AFC	CFC	THH	CRL	Q ₁₀	Q ₀
0.154	6.7	7						

Discharge Pollutant			Units	Max Discharge Conc	0 if left blank		0.5 if left blank		0 if left blank		1 if left blank		
					Trib Conc	Stream Conc	Daily CV	Hourly CV	Stream CV	Fate Coeff	FO8	Criteria Mod	Chem Transl
Group 1	Total Dissolved Solids (PWS)	mg/L		33									
	Chloride (PWS)	mg/L		3.88									
	Bromide	mg/L		0.13									
	Sulfate (PWS)	mg/L		7.01									
	Fluoride (PWS)	mg/L		0.11									
Group 2	Total Aluminum	µg/L		390									
	Total Antimony	µg/L		0.2									
	Total Arsenic	µg/L		1									
	Total Barium	µg/L		14									
	Total Beryllium	µg/L		1									
	Total Boron	µg/L		200									
	Total Cadmium	µg/L	<	0.2									
	Total Chromium (III)	µg/L		1									
	Hexavalent Chromium	µg/L		0.25									
	Total Cobalt	µg/L		2									
	Total Copper	µg/L		1									
	Free Cyanide	µg/L											
	Total Cyanide	µg/L		10									
	Dissolved Iron	µg/L		110									
	Total Iron	µg/L		155.8									
	Total Lead	µg/L	<	1									
	Total Manganese	µg/L		61.8									
	Total Mercury	µg/L	<	0.2									
	Total Nickel	µg/L		1.1									
	Total Phenols (Phenolics) (PWS)	µg/L		2									
	Total Selenium	µg/L		1									
	Total Silver	µg/L		0.3									
	Total Thallium	µg/L	<	3									
	Total Zinc	µg/L		83.2									
	Total Molybdenum	µg/L		3									

Summary of Review

Toxic Management Spreadsheet
Version 1.4, May 2023

Stream / Surface Water Information

SCMA - Broad Mountain WTP, NPDES Permit No. PA0062529, Outfall 001

Instructions Discharge Stream

Receiving Surface Water Name: Wolf Creek

No. Reaches to Model: 1

- ☒ Statewide Criteria
☐ Great Lakes Criteria
☐ ORSANCO Criteria

Location	Stream Code*	RMI*	Elevation (ft)*	DA (mi ²)*	Slope (ft/ft)	PWS Withdrawal (MGD)	Apply Fish Criteria*
Point of Discharge	002355	0.52	1034.56	3.89			Yes
End of Reach 1	002355	0	907.53	18			Yes

Q₇₋₁₀

Location	RMI	LFY (cfs/mi ²)*	Flow (cfs)		W/D Ratio	Width (ft)	Depth (ft)	Velocity (fps)	Travel Time (days)	Tributary		Stream		Analysis	
			Stream	Tributary						Hardness	pH	Hardness*	pH*	Hardness	pH
Point of Discharge	0.52	0.1										100	7		
End of Reach 1	0	0.1													

Q_b

Location	RMI	LFY (cfs/mi ²)*	Flow (cfs)		W/D Ratio	Width (ft)	Depth (ft)	Velocity (fps)	Travel Time (days)	Tributary		Stream		Analysis	
			Stream	Tributary						Hardness	pH	Hardness*	pH*	Hardness	pH
Point of Discharge	0.52														
End of Reach 1	0														

Toxic Management Spreadsheet
Version 1.4, May 2023

Model Results

SCMA - Broad Mountain WTP, NPDES Permit No. PA0062529, Outfall 001

Instructions Results

RETURN TO INPUTS

SAVE AS PDF

PRINT

☒ All ☐ Inputs ☐ Results ☐ Limits☐ Hydrodynamics☒ Wasteload Allocations☒ AFC

OCT (min): 0.441

PMF: 1

Analysis Hardness (mg/l): 63.17

Analysis pH: 7.00

Pollutants	Stream Conc (ug/L)	Stream CV	Trib Conc (ug/L)	Fate Coef	WQC (ug/L)	WQ Obj (ug/L)	WLA (ug/L)	Comments
Total Dissolved Solids (PWS)	0	0		0	N/A	N/A	N/A	
Chloride (PWS)	0	0		0	N/A	N/A	N/A	
Sulfate (PWS)	0	0		0	N/A	N/A	N/A	
Fluoride (PWS)	0	0		0	N/A	N/A	N/A	
Total Aluminum	0	0		0	750	750	1,900	
Total Antimony	0	0		0	1,100	1,100	2,787	
Total Arsenic	0	0		0	340	340	861	Chem Translator of 1 applied
Total Barium	0	0		0	21,000	21,000	53,198	
Total Boron	0	0		0	8,100	8,100	20,519	
Total Cadmium	0	0		0	1,288	1.34	3.39	Chem Translator of 0.963 applied
Total Chromium (III)	0	0		0	391,123	1,238	3,135	Chem Translator of 0.316 applied
Hexavalent Chromium	0	0		0	16	16.3	41.3	Chem Translator of 0.982 applied
Total Cobalt	0	0		0	95	95.0	241	
Total Copper	0	0		0	8,718	9.08	23.0	Chem Translator of 0.96 applied
Dissolved Iron	0	0		0	N/A	N/A	N/A	
Total Iron	0	0		0	N/A	N/A	N/A	
Total Lead	0	0		0	39,033	45.5	115	Chem Translator of 0.858 applied
Total Manganese	0	0		0	N/A	N/A	N/A	
Total Mercury	0	0		0	1,400	1.65	4.17	Chem Translator of 0.85 applied
Total Nickel	0	0		0	317,466	318	806	Chem Translator of 0.998 applied
Total Phenols (Phenolics) (PWS)	0	0		0	N/A	N/A	N/A	
Total Selenium	0	0		0	N/A	N/A	N/A	Chem Translator of 0.922 applied
Total Silver	0	0		0	1,460	1.72	4.35	Chem Translator of 0.85 applied
Total Thallium	0	0		0	65	65.0	165	
Total Zinc	0	0		0	79,401	81.2	206	Chem Translator of 0.978 applied

Summary of Review

☒ **CFC** CCT (min): **0.441** PMF: **1** Analysis Hardness (mg/l): **63.17** Analysis pH: **7.00**

Pollutants	Stream Conc (µg/L)	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Total Dissolved Solids (PWS)	0	0		0	N/A	N/A	N/A	
Chloride (PWS)	0	0		0	N/A	N/A	N/A	
Sulfate (PWS)	0	0		0	N/A	N/A	N/A	
Fluoride (PWS)	0	0		0	N/A	N/A	N/A	
Total Aluminum	0	0		0	N/A	N/A	N/A	
Total Antimony	0	0		0	220	220	557	
Total Arsenic	0	0		0	150	150	380	Chem Translator of 1 applied
Total Barium	0	0		0	4,100	4,100	10,386	
Total Boron	0	0		0	1,600	1,600	4,053	
Total Cadmium	0	0		0	0.179	0.19	0.49	Chem Translator of 0.928 applied
Total Chromium (III)	0	0		0	50.877	59.2	150	Chem Translator of 0.86 applied
Hexavalent Chromium	0	0		0	10	10.4	26.3	Chem Translator of 0.962 applied
Total Cobalt	0	0		0	19	19.0	48.1	
Total Copper	0	0		0	6.048	6.3	16.0	Chem Translator of 0.96 applied
Dissolved Iron	0	0		0	N/A	N/A	N/A	
Total Iron	0	0		0	1,500	1,500	3,800	WQC = 30 day average; PMF = 1
Total Lead	0	0		0	1.521	1.77	4.49	Chem Translator of 0.858 applied
Total Manganese	0	0		0	N/A	N/A	N/A	
Total Mercury	0	0		0	0.770	0.91	2.29	Chem Translator of 0.85 applied
Total Nickel	0	0		0	35.261	35.4	89.6	Chem Translator of 0.997 applied
Total Phenols (Phenolics) (PWS)	0	0		0	N/A	N/A	N/A	
Total Selenium	0	0		0	4.600	4.99	12.6	Chem Translator of 0.922 applied
Total Silver	0	0		0	N/A	N/A	N/A	Chem Translator of 1 applied
Total Thallium	0	0		0	13	13.0	32.9	
Total Zinc	0	0		0	80.051	81.2	206	Chem Translator of 0.985 applied

☒ **THH** CCT (min): **0.441** PMF: **1** Analysis Hardness (mg/l): **N/A** Analysis pH: **N/A**
☒ **CRL** CCT (min): **0.338** PMF: **1** Analysis Hardness (mg/l): **N/A** Analysis pH: **N/A**
☒ **Recommended WQBELs & Monitoring Requirements**

No. Samples/Month: **4**

Pollutants	Mass Limits		Concentration Limits				Governing WQBEL	WQBEL Basis	Comments
	AML (lbs/day)	MDL (lbs/day)	AML	MDL	IMAX	Units			
Total Aluminum	Report	Report	Report	Report	Report	µg/L	1,218	AFC	Discharge Conc > 10% WQBEL (no RP)
Dissolved Iron	Report	Report	Report	Report	Report	µg/L	760	THH	Discharge Conc > 10% WQBEL (no RP)
Total Silver	Report	Report	Report	Report	Report	µg/L	2.79	AFC	Discharge Conc > 10% WQBEL (no RP)
Total Thallium	0.0008	0.001	0.61	0.95	1.52	µg/L	0.61	THH	Discharge Conc ≥ 50% WQBEL (RP)
Total Zinc	0.18	0.28	132	206	330	µg/L	132	AFC	Discharge Conc ≥ 50% WQBEL (RP)

Summary of Review

TRC EVALUATION					
Input appropriate values in A3:A9 and D3:D9					
0.164 = Q stream (cfs)		0.5 = CV Daily			
0.389 = 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 = 0.106		1.3.2.iii	WLA cfc = 0.096
PENTOXSD TRG	5.1a	LTAMULT afc = 0.373		5.1c	LTAMULT cfc = 0.581
PENTOXSD TRG	5.1b	LTA_afc= 0.039		5.1d	LTA_cfc = 0.056
Source	Reference	Effluent Limit Calculations			
PENTOXSD TRG	5.1f	AML MULT = 1.231			
PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l) = 0.049		AFC	
		INST MAX LIMIT (mg/l) = 0.159			
WLA_afc	(.019/e ^{-k*AFC_tc})) + [(AFC_Yc*Qs*.019/Qd*e ^{-k*AFC_tc}))... ...+ Xd + (AFC_Yc*Qs*Xs/Qd)]*(1-FOS/100)				
LTAMULT_afc	EXP((0.5*LN(cvh^2+1))-2.326*LN(cvh^2+1)^0.5)				
LTA_afc	wla_afc*LTAMULT_afc				
WLA_cfc	(.011/e ^{-k*CFC_tc})) + [(CFC_Yc*Qs*.011/Qd*e ^{-k*CFC_tc}))... ...+ Xd + (CFC_Yc*Qs*Xs/Qd)]*(1-FOS/100)				
LTAMULT_cfc	EXP((0.5*LN(cvd^2/no_samples+1))-2.326*LN(cvd^2/no_samples+1)^0.5)				
LTA_cfc	wla_cfc*LTAMULT_cfc				
AML_MULT	EXP(2.326*LN((cvd^2/no_samples+1)^0.5)-0.5*LN(cvd^2/no_samples+1))				
AVG_MON_LIMIT	MIN(BAT_BPJ,MIN(LTA_afc,LTA_cfc)*AML_MULT)				
INST_MAX_LIMIT	1.5*((av_mon_limit/AML_MULT)/LTAMULT_afc)				



DRBC Docket
1991-016 CP-4.pdf



TMS PA0062529
10-22-2025.pdf

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	0.164
Latitude	40° 44' 34.03"	Longitude	-76° 11' 21.75"
Quad Name	Pottsville	Quad Code	1336
Wastewater Description: IW Process Effluent without ELG			
Receiving Waters	Wolf Creek (CWF, MF)	Stream Code	2355
NHD Com ID	25991126	RMI	0.52
Drainage Area	3.89 mi ²	Yield (cfs/mi ²)	0.1
Q ₇₋₁₀ Flow (cfs)	0.389	Q ₇₋₁₀ Basis	State-wide default
Elevation (ft)	1,034.56	Slope (ft/ft)	-
Watershed No.	3-A	Chapter 93 Class.	CWF, MF
Existing Use	-	Existing Use Qualifier	-
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	Impaired		
Cause(s) of Impairment	CAUSE UNKNOWN		
Source(s) of Impairment	NATURAL SOURCES		
TMDL Status	-	Name	-
Nearest Downstream Public Water Supply Intake	Pottstown Borough		
PWS Waters	Schuylkill River	Flow at Intake (cfs)	-
PWS RMI	57	Distance from Outfall (mi)	~72.5

Compliance History

DMR Data for Outfall 001 (from September 1, 2024 to August 31, 2025)

Parameter	AUG-25	JUL-25	JUN-25	MAY-25	APR-25	MAR-25	FEB-25	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24
Flow (MGD) Average Monthly	0.132	0.133	0.133	0.132	0.131	0.134	0.133	0.132	0.132	0.132	0.131	0.133
Flow (MGD) Daily Maximum	0.135	0.136	0.136	0.136	0.135	0.136	0.136	0.135	0.136	0.137	0.134	0.135
pH (S.U.) Instantaneous Minimum	6.4	6.4	6.2	6.3	6.2	6.5	6.6	6.7	6.2	6.7	6.6	6.7
pH (S.U.) Instantaneous Maximum	7.0	7.5	7.4	7.2	7.0	6.9	7.3	7.0	7.4	7.4	7.2	7.3
TRC (mg/L) Average Monthly	0.03	0.03	0.03	0.04	0.04	0.06	0.09	0.07	0.09	0.06	0.04	0.05
TRC (mg/L) Instantaneous Maximum	0.08	0.09	0.09	0.08	0.10	0.14	0.17	0.10	0.19	0.20	0.09	0.09
TSS (lbs/day) Average Monthly	1.08	2.22	1.38	2.20	2.64	3.04	1.67	2.87	1.10	1.37	2.61	4.14
TSS (lbs/day) Daily Maximum	1.09	6.71	2.22	3.33	4.40	6.66	3.35	7.71	1.11	2.17	6.51	5.63
TSS (mg/L) Average Monthly	1.0	2.0	1.25	2.0	2.40	2.75	1.50	2.60	1.0	1.25	2.40	3.75
TSS (mg/L) Daily Maximum	1.0	6.0	2.0	3.0	4.0	6.0	3.0	7.0	1.0	2.0	6.0	5.0
Total Aluminum (lbs/day) Average Monthly	0.279	0.448	0.362	0.242	0.540	0.351	0.119	0.179	0.121	0.171	0.295	0.294
Total Aluminum (lbs/day) Daily Maximum	0.412	1.006	0.470	0.379	0.628	0.621	0.131	0.299	0.130	0.253	0.350	0.385
Total Aluminum (mg/L) Average Monthly	0.258	0.404	0.330	0.220	0.490	0.318	0.108	0.162	0.110	0.155	0.270	0.265
Total Aluminum (mg/L) Daily Maximum	0.380	0.900	0.470	0.350	0.570	0.560	0.120	0.270	0.120	0.230	0.320	0.350
Total Iron (lbs/day) Average Monthly	0.079	0.329	0.072	0.047	0.205	0.033	0.042	0.232	0.038	0.061	0.181	0.264
Total Iron (lbs/day) Daily Maximum	0.173	0.555	0.122	0.057	0.672	0.043	0.067	0.776	0.055	0.076	0.520	0.473

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Total Iron (mg/L) Average Monthly	0.073	0.298	0.065	0.043	0.186	0.030	0.038	0.210	0.035	0.055	0.166	0.240
Total Iron (mg/L) Daily Maximum	0.160	0.500	0.110	0.050	0.610	0.040	0.060	0.70	0.050	0.070	0.480	0.430
Total Manganese (lbs/day) Average Monthly	0.049	0.205	0.065	0.038	0.084	0.031	0.053	0.110	0.034	0.046	0.093	0.145
Total Manganese (lbs/day) Daily Maximum	0.073	0.324	0.109	0.052	0.183	0.037	0.069	0.305	0.043	0.054	0.267	0.204
Total Manganese (mg/L) Average Monthly	0.046	0.185	0.059	0.047	0.076	0.028	0.048	0.099	0.031	0.042	0.085	0.132
Total Manganese (mg/L) Daily Maximum	0.067	0.292	0.098	0.066	0.166	0.033	0.062	0.275	0.039	0.048	0.246	0.190
Total Zinc (lbs/day) Average Monthly	0.108	0.087	0.082	0.090	0.103	0.084	0.143	0.113	0.096	0.166	0.046	0.076
Total Zinc (lbs/day) Daily Maximum	0.127	0.108	0.099	0.100	0.163	0.106	0.165	0.163	0.143	0.466	0.065	0.099
Total Zinc (mg/L) Average Monthly	0.10	0.079	0.074	0.081	0.094	0.076	0.129	0.103	0.088	0.151	0.042	0.069
Total Zinc (mg/L) Daily Maximum	0.117	0.097	0.091	0.090	0.148	0.094	0.149	0.145	0.131	0.423	0.060	0.088

