Pennsylvania Department of Environmental Protection

Southcentral Regional Office
CLEAN WATER PROGRAM

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application Type	**Renewal**	Application No.	**PA0029297**
Facility Type	**Non-Municipal**	APS ID	**717289**
Major / Minor	**Minor**	Authorization ID	**1508140**

Applicant and Facility Information

Applicant Name	**Department Of Human Services**	Facility Name	**South Mountain Restoration Center WWTP**
Applicant Address	2525 N 7th Street	Facility Address	10058 South Mountain Road
	Harrisburg, PA 17110-2511		South Mountain, PA 17261-0900
Applicant Contact	Carl Rundquist	Facility Contact	Dylan Commerer
Applicant Phone	(717) 772-2088	Facility Phone	(717) 749-3121
Client ID	35826	Site ID	447425
Ch 94 Load Status	Not Overloaded	Municipality	Quincy Township
Connection Status	No Limitations	County	Franklin
Date Application Received	November 21, 2024	EPA Waived?	Yes
Date Application Accepted	January 8, 2025	If No, Reason	
Purpose of Application	NPDES Permit Renewal.		

Summary of Review

Pennsylvania Department of Human Services (DPW or DHS) has applied to the Pennsylvania Department of Environmental Protection (DEP) for reissuance of its NPDES permit. The permit was last reissued on June 19, 2019 and became effective on July 1, 2019. The permit expired on June 30, 2024. As the permittee failed to submit the renewal application prior to the permit expiration date, DEP has considered this application "new".

Based on the review, it is recommended that the permit be drafted.

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.

Approve	Deny	Signatures	Date
X		*Jinsu Kim* Jinsu Kim / Environmental Engineering Specialist	September 15, 2025
x		*Maria D. Bebenek* for Daniel W. Martin, P.E. / Environmental Engineer Manager	September 19, 2025
x		*Maria D. Bebenek* Maria D. Bebenek, P.E. / Program Manager	September 19, 2025

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	.395
Latitude	39º 51' 35.00"	Longitude	-77º 30' 3.00"
Quad Name	Waynesboro	Quad Code	2025
Wastewater Description:	Sewage Effluent		
Receiving Waters	Rocky Mountain Creek	Stream Code	60247
NHD Com ID	49472778	RMI	4.01
Drainage Area	1.35 sq.mi.	Yield (cfs/mi^2)	0.111
Q_{7-10} Flow (cfs)	0.149	Q_{7-10} Basis	USGS gage no. 01614500
Elevation (ft)	1449	Slope (ft/ft)	
Watershed No.	13-C	Chapter 93 Class.	HQ-CWF, MF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment			
Source(s) of Impairment			
TMDL Status		Name	
Nearest Downstream Public Water Supply Intake	Hagerstown, MD		
PWS Waters	Potomac River	Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	

Drainage Area
The discharge is to Rocky Mountain Creek at RMI 4.01. A drainage area upstream of the point of discharge is estimated to be 1.35 sq.mi., according to USGS StreamStats available at https://streamstats.usgs.gov/ss/.

Stream Flow
The USGS stream gage station no. 01614500 located on Conococheague Creek at Fairview, MD has been correlated with stream conditions at the point of discharge as follows:

$$\text{Low Flow Yield} = Q7\text{-}10_{gage} / \text{Drainage Area}_{gage} = 55 \text{ cfs} / 494 \text{ sq.mi} = 0.111 \text{ cfs/sq.mi.}$$
$$Q7\text{-}10_{site} = \text{Low Flow Yield} * \text{Drainage Area}_{site} = 0.111 \text{ cfs/sq.mi} * 1.35 \text{ sq.mi} = 0.149 \text{ cfs}$$
$$Q1\text{-}10/Q7\text{-}10 = 48.1 \text{ cfs} / 55 \text{ cfs} = 0.87:1$$
$$Q30\text{-}10/Q7\text{-}10 = 65.3 \text{ cfs} / 55 \text{ cfs} = 1.19:1$$

Rocky Mountain Creek
Under 25 Pa Code §93.9z, Rocky Mountain Creek is designated as high quality-cold water fishes and supports migratory fishes. All permit requirements will be developed to ensure that the water quality of this receiving stream be maintained and protected in accordance with 25 Pa Code §93.4a(c). DEP's 2024 integrated water quality report indicates that the discharge is located within a stream segment listed as attaining use(s). No Class A Wild Trout Fishery is impacted by this discharge.

Public Water Supply Intake
The fact sheet developed for the last permit renewal indicated that the nearest public water supply intake is Hagerstown, MD on Potomac River. Given the nature and distance, the discharge is not expected to significantly impact the water supply.

Treatment Facility Summary				
Treatment Facility Name: South Mt Restoration Center				
Waste Type	**Degree of Treatment**	**Process Type**	**Disinfection**	**Avg Annual Flow (MGD)**
Sewage	Secondary With Ammonia Reduction	Activated Sludge	Chlorine With Dechlorination	0.395
Hydraulic Capacity (MGD)	**Organic Capacity (lbs/day)**	**Load Status**	**Biosolids Treatment**	**Biosolids Use/Disposal**
0.395		Not Overloaded	Drying	Other WWTP

The permittee utilizes an on-site sanitary wastewater treatment plant serving the South Mountain Restoration Center, a long-term care/rehabilitation facility in South Mountain, PA. The plant is rated for 0.395 MGD as an annual average design flow and hydraulic design flow. The plant utilizes an extended aeration treatment process consisting of screening, primary clarifiers (2), aeration tanks (4), secondary clarifiers (2), chlorine contact tank, dechlorination and outfall to Rocky Mountain Creek. Chlorine gas is used for chlorination, sodium bisulfite is used for dechlorination, soda ash is used for pH control.

The plant also contains anaerobic digestors (2) for sludge processing prior to hauled off site via a local septage hauler.

Compliance History	
Summary of DMRs:	A summary of past 12-month DMR data is presented on the next page.
Summary of Inspections:	07/21/2023: DEP conducted a routine inspection; no significant violations have been identified at the time of inspection. 08/08/2024: DEP conducted a routine inspection; no significant violations have been identified at the time of inspection.
Other Comments:	Since the last permit reissuance, the facility had a number of permit violations. These violations are shown on page 6 of this fact sheet. DEP's database shows there are open violations associated with this facility or permittee, particularly identified by DEP SCRO Clean Water Program. A draft permit cover letter will indicate that the permit may not be finalized until all violations are resolved and closed.

Effluent Data

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

Parameter	JUL-25	JUN-25	MAY-25	APR-25	MAR-25	FEB-25	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24
Flow (MGD) Average Monthly	0.043	0.047	0.067	0.041	0.038	0.047	0.044	0.043	0.046	0.037	0.037	0.037
Flow (MGD) Daily Maximum	0.063	0.088	0.184	0.065	0.048	0.078	0.064	0.106	0.081	0.054	0.063	0.087
pH (S.U.) Instantaneous Minimum	6.2	6.4	6.6	6.3	6.5	6.5	6.6	6.5	6.0	6.4	6.3	6.6
pH (S.U.) Instantaneous Maximum	7.3	7.7	8.6	7.5	7.5	7.4	7.3	7.5	7.4	7.1	7.0	7.3
DO (mg/L) Instantaneous Minimum	5.5	5.6	5.5	5.5	5.5	5.6	5.9	5.6	5.7	5.7	6.6	5.5
TRC (mg/L) Average Monthly	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TRC (mg/L) Instantaneous Maximum	0.03	0.01	0.02	0.03	0.03	0.03	0.04	0.03	0.02	0.04	< 0.01	0.04
CBOD5 (mg/L) Average Monthly	< 3.15	< 4.35	< 3.0	< 3.42	< 3.84	< 3.19	< 4.85	6.8	< 3.85	< 3.0	< 3.39	< 3.0
TSS (mg/L) Average Monthly	10.1	7.0	8.9	7.50	8.1	11.4	18.2	17.1	31.5	20.6	15.5	9.7
Fecal Coliform (No./100 ml) Geometric Mean	< 15.0	< 6.0	< 36.0	< 80	132	< 29.0	57.0	20.0	< 8.0	< 6.0	< 4.0	< 43.0
Fecal Coliform (No./100 ml) Instantaneous Maximum	344.8	86.4	547.5	317.6	856.8	1986.3	365.4	209.8	198	74.8	7.4	517.2
Nitrate-Nitrite (lbs/day) Average Monthly	10	7.0	9.0	8.0	6.0	4.0	5.0	< 5.0	< 5.0	< 6.0	< 5.0	< 7.0
Nitrate-Nitrite (mg/L) Average Monthly	23.72	18.0	14.192	20.83	16.26	10.928	11.961	< 11.23	< 12.84	< 17.88	< 17.55	< 17.66
Total Nitrogen (lbs/day) Average Monthly	< 10.0	< 7.0	< 10.0	< 8.0	< 6.0	< 4.0	< 5.0	< 6.0	< 6.0	< 6.0	< 5.0	< 7.0
Total Nitrogen (mg/L) Average Monthly	< 24.22	< 18.5	< 14.692	< 21.33	< 16.76	< 11.674	< 12.5792	< 12.514	< 14.8459	< 18.5	< 18.05	< 18.16

Parameter	JUL-25	JUN-25	MAY-25	APR-25	MAR-25	FEB-25	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24
Ammonia (mg/L) Average Monthly	< 0.1	< 0.1038	< 0.1	< 0.1	< 0.1383	< 0.2054	< 0.1319	0.255	< 0.3021	< 0.405	< 0.1	< 0.1004
TKN (lbs/day) Average Monthly	< 0.2	< 0.2	< 0.8	< 0.2	< 0.2	< 0.2	< 0.2	< 0.7	0.8	< 0.2	< 0.1	< 0.2
TKN (mg/L) Average Monthly	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.746	< 0.6182	< 1.286	1.9059	< 0.62	< 0.5	< 0.5
Total Phosphorus (lbs/day) Average Monthly	1.0	1.0	2.0	2.0	1.0	0.6	0.9	0.5	0.8	0.9	0.9	1.0
Total Phosphorus (mg/L) Average Monthly	3.18	2.79	2.7	3.87	3.08	1.97	2.25	1.15	2.07	2.6	2.98	3.11

Compliance History

Date	Description	Parameters	Results	Limits	Units	SBC
7/5/2019	Late DMR Submission					
1/5/2020	Late DMR Submission					
1/30/2020	Late DMR Submission					
3/1/2020	Late DMR Submission					
3/29/2020	Late DMR Submission					
5/8/2020	Sample type not in accordance with permit	Total Nitrogen				
5/8/2020	Violation of permit condition	Total Suspended Solids	33.0	30.0	mg/L	Average Monthly
10/13/2020	Violation of permit condition	Total Residual Chlorine (TRC)	0.52	.13	mg/L	Instantaneous Maximum
3/10/2021	Violation of permit condition	Ammonia-Nitrogen	8.41	6.0	mg/L	Average Monthly
10/20/2021	Violation of permit condition	Fecal Coliform	< 2419.6	1000	No./100 ml	Instantaneous Maximum
10/24/2022	Violation of permit condition	Fecal Coliform	1553.1	1000	No./100 ml	Instantaneous Maximum
6/28/2023	Violation of permit condition	Fecal Coliform	5198.8	1000	No./100 ml	Instantaneous Maximum
8/20/2023	Violation of permit condition	Fecal Coliform	1102.0	1000	No./100 ml	Instantaneous Maximum
8/20/2023	Violation of permit condition	Total Suspended Solids	52.5	30.0	mg/L	Average Monthly
9/28/2023	Violation of permit condition	Fecal Coliform	15531	1000	No./100 ml	Instantaneous Maximum
10/25/2023	Violation of permit condition	Fecal Coliform	9606	1000	No./100 ml	Instantaneous Maximum
12/28/2023	Violation of permit condition	Fecal Coliform	14136	10000	No./100 ml	Instantaneous Maximum
7/25/2024	Violation of permit condition	Fecal Coliform	2419.6	1000	No./100 ml	Instantaneous Maximum
12/20/2024	Violation of permit condition	Total Suspended Solids	31.5	30.0	mg/L	Average Monthly

Existing Effluent Limitations and Monitoring Requirements

A table below summarizes effluent limits and monitoring requirements specified in the current permit renewal:

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) [1]		Concentrations (mg/L)				Minimum [2] Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	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	5.5 Inst Min	XXX	XXX	XXX	1/day	Grab
Total Residual Chlorine (TRC)	XXX	XXX	XXX	0.04	XXX	0.13	1/day	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5) Nov 1 - Apr 30	XXX	XXX	XXX	25.0	XXX	50	1/week	24-Hr Composite
Carbonaceous Biochemical Oxygen Demand (CBOD5) May 1 - Oct 31	XXX	XXX	XXX	20.0	XXX	40	1/week	24-Hr Composite
Total Suspended Solids	XXX	XXX	XXX	30.0	XXX	60	1/week	24-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	1/week	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/week	Grab
Nitrate-Nitrite as N	Report	XXX	XXX	Report	XXX	XXX	1/month	24-Hr Composite
Total Nitrogen	Report	XXX	XXX	Report	XXX	XXX	1/month	Calculation
Ammonia-Nitrogen Nov 1 - Apr 30	XXX	XXX	XXX	6.0	XXX	12	1/week	24-Hr Composite
Ammonia-Nitrogen May 1 - Oct 31	XXX	XXX	XXX	2.0	XXX	4	1/week	24-Hr Composite
Total Kjeldahl Nitrogen	Report	XXX	XXX	Report	XXX	XXX	1/month	24-Hr Composite
Total Phosphorus	Report	XXX	XXX	Report	XXX	XXX	1/month	24-Hr Composite

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** .395
Latitude 39º 51' 35.00" **Longitude** -77º 30' 3.00"
Wastewater Description: Sewage Effluent

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	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended Solids	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	45	Average Weekly	133.102(b)(2)	92a.47(a)(2)
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)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)

Water Quality-Based Limitations

CBOD5, NH3-N, and DO
WQM 7.0 version 1.0b is a water quality model designed to assist DEP to determine appropriate permit requirements for CBOD5, NH3-N and DO. DEP's guidance no. 391-2000-007 provides the technical methods contained in WQM 7.0 for conducting wasteload allocation and for determining recommended NPDES effluent limits for point source discharges. The model was utilized and the output indicated that existing effluent limits are still protective of water quality. No changes are therefore recommended. See Best Professional Judgment (BPJ) limitations section of this fact sheet for the existing effluent limit of 5.5 mg/L for dissolved oxygen.

Toxics
DEP's NPDES permit application for minor facilities greater than 0.1 MGD requires sampling of toxic pollutants unless the facility does not receive industrial or commercial contributions. Since the plant only receives sanitary wastewater from the rehabilitation center, no toxic pollutants have been taken into consideration during this review.

Total Residual Chlorine
Because the plant utilizes chlorine for disinfection, total residual chlorine in effluent must be regulated and is subject to 25 Pa Code §92a.47(7) regulation. DEP's TRC_CALC worksheet has been utilized to determine if the existing WQBEL is still adequate. The worksheet indicates that the existing WQBELs are still protective of water quality. No change is therefore recommended.

Best Professional Judgment (BPJ) Limitations

Dissolved Oxygen
The following explanation was provided in the fact sheet developed for the last permit renewal:

The model during the previous renewal was properly completed. The results indicated an effluent D.O. of 6 mg/l was necessary although a D.O. limit of 5 was written. The WQM 7.0 simulation shows that the lowest D.O. level is at discharge point. The model increments effluent D.O. levels in whole numbers. The facility would violate a D.O. limit of 6.0 mg/l so the

D.O. was evaluated to determine the level required to meet an instream goal of 6.0 mg/l at discharge point. The model uses a background D.O. level of 90% of saturation based on the WQ 7.0 TRG equation:

$$DO_{SAT} = 490/(33.5 + T) = 490/33.5 + 20) = 9.15,\ DO_{SAT}*90\% = 8.24\ mg/l$$
$$Qs = 0.1288\ cfs\ ,\ Q_D = 0.395\ MGD = 0.611\ cfs,\ Q_{total} = 0.7398\ cfs$$
$$0.7398*6 = 0.1288*8.24 + 0.611(x)$$
$$X = 5.5\ mg/l$$

Write a D.O. limit of 5.5 mg/l that protects water quality and the plant could meet. Discussed D.O. levels with Dennis Fleagle since do not meet 5.5 mg/l consistently now. He reported they he and the operator thought 5.5 mg/l would be met with increasing blower operation. He agreed to a 6 month period to test compliance.

While a minimum 5.0 mg/L is DEP's current dissolved oxygen water quality criteria in 25 Pa. Code § 93.7(a) for cold water fishes (i.e., no DO criteria is available for high quality), it is recommended to maintain 5.5 mg/L as an effluent limit for DO to maintain and protect the existing water quality of the receiving stream in accordance with 25 Pa Code §93.4a(c).

Additional Considerations

Flow Monitoring
The requirement to monitor the volume of effluent will remain in the draft permit per 40 CFR § 122.44(i)(1)(ii).

E. Coli Monitoring Requirement
DEP's SOP no. BCW-PMT-033 recommends a routine monitoring for E. Coli in all new and reissued sewage permits. As a result, a quarterly monitoring requirement for E. Coli will be included in the permit given the facility's design flow is greater than 0.05 MGD but less than 1.0 MGD.

Mass Loading Limitations
No mass loading limitations will be written in the permit as this is a non-POTW facility. This approach is consistent with DEP's technical guidance no. 362-0400-001.

Chesapeake Bay TMDL
DEP's Chesapeake Bay TMDL Phase 2 Watershed Implementation Plan (WIP) Wastewater Supplement recognizes this facility as a Phase 4 sewage facility (average annual design flow on August 29, 2005 greater than or equal to 0.2 MGD and less than 0.4 MGD). For those Phase 4 sewage facilities, the WIP requires nutrient monitoring at a frequency no less than monthly. The existing permit renewal contains monthly nutrient sampling requirement. This requirement will therefore be continued. It is noteworthy that the fact sheet prepared during the last permit renewal indicated the following:

South Mountain Restoration Center reduced the design flow from 0.50 MGD to 0.395 MGD to be less than 0.40 MGD so that a nutrient cap load was not written. The following condition should be written in the permit to indicate the design flow of 0.50 MGD is considered existing if future expansion occurs. "The permittee reduced the design flow from 0.50 MGD to 0.395 MGD making it a Phase IV facility. The design flow prior to August 29, 2005 was 0.50 MGD and will be considered the existing flow during a future expansion."

The aforementioned condition will continue to be included in this permit for information purpose(s).

Antidegradation Requirements
All effluent limitations and monitoring requirements have been developed to ensure that existing instream water uses and the level of water quality necessary to protect the existing uses are maintained and protected.

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (386-0400-001), SOPs and/or BPJ.

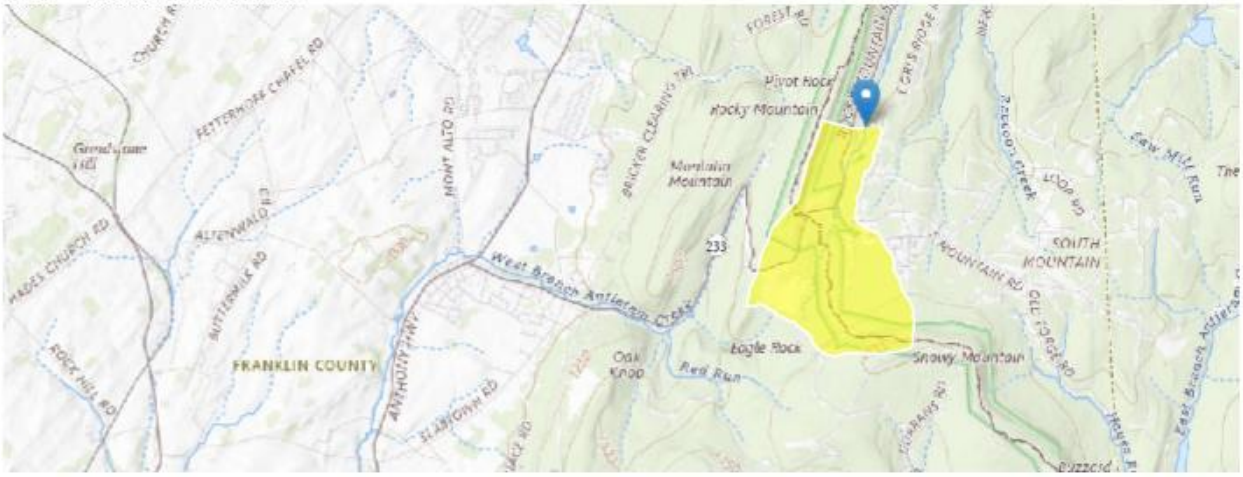
Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	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
DO	XXX	XXX	5.5 Inst Min	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.04	XXX	0.13	1/day	Grab
CBOD5 Nov 1 - Apr 30	XXX	XXX	XXX	25.0	XXX	50	1/week	24-Hr Composite
CBOD5 May 1 - Oct 31	XXX	XXX	XXX	20.0	XXX	40	1/week	24-Hr Composite
TSS	XXX	XXX	XXX	30.0	XXX	60	1/week	24-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	1/week	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/week	Grab
Nitrate-Nitrite	Report	XXX	XXX	Report	XXX	XXX	1/month	24-Hr Composite
Total Nitrogen	Report	XXX	XXX	Report	XXX	XXX	1/month	Calculation
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	6.0	XXX	12	1/week	24-Hr Composite
Ammonia May 1 - Oct 31	XXX	XXX	XXX	2.0	XXX	4	1/week	24-Hr Composite
TKN	Report	XXX	XXX	Report	XXX	XXX	1/month	24-Hr Composite
Total Phosphorus	Report	XXX	XXX	Report	XXX	XXX	1/month	24-Hr Composite
E. Colo (no. / 100 mL)	XXX	XXX	XXX	XXX	XXX	Report	1/quarter	Grab

Tools and References Used to Develop Permit	
☐	WQM for Windows Model (see Attachment)
☐	Toxics Management Spreadsheet (see Attachment)
☐	TRC Model Spreadsheet (see Attachment)
☐	Temperature Model Spreadsheet (see Attachment)
☐	Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
☐	Technical Guidance for the Development and Specification of Effluent Limitations, 386-0400-001, 10/97.
☐	Policy for Permitting Surface Water Diversions, 386-2000-019, 3/98.
☐	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 386-2000-018, 11/96.
☐	Technology-Based Control Requirements for Water Treatment Plant Wastes, 386-2183-001, 10/97.
☐	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 386-2183-002, 12/97.
☐	Pennsylvania CSO Policy, 386-2000-002, 9/08.
☐	Water Quality Antidegradation Implementation Guidance, 391-0300-002, 11/03.
☐	Implementation Guidance Evaluation & Process Thermal Discharge (316(a)) Federal Water Pollution Act, 386-2000-008, 4/97.
☐	Determining Water Quality-Based Effluent Limits, 386-2000-004, 12/97.
☐	Implementation Guidance Design Conditions, 386-2000-007, 9/97.
☐	Technical Reference Guide (TRG) WQM 7.0 for Windows, Wasteload Allocation Program for Dissolved Oxygen and Ammonia Nitrogen, Version 1.0, 386-2000-016, 6/2004.
☐	Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 386-2000-012, 10/1997.
☐	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 386-2000-009, 3/99.
☐	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 386-2000-015, 5/2004.
☐	Implementation Guidance for Section 93.7 Ammonia Criteria, 386-2000-022, 11/97.
☐	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 386-2000-013, 4/2008.
☐	Implementation Guidance Total Residual Chlorine (TRC) Regulation, 386-2000-011, 11/1994.
☐	Implementation Guidance for Temperature Criteria, 386-2000-001, 4/09.
☐	Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 386-2000-021, 10/97.
☐	Implementation Guidance for Application of Section 93.5(e) for Potable Water Supply Protection Total Dissolved Solids, Nitrite-Nitrate, Non-Priority Pollutant Phenolics and Fluorides, 386-2000-020, 10/97.
☐	Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 386-2000-005, 3/99.
☐	Implementation Guidance for the Determination and Use of Background/Ambient Water Quality in the Determination of Wasteload Allocations and NPDES Effluent Limitations for Toxic Substances, 386-2000-010, 3/1999.
☐	Design Stream Flows, 386-2000-003, 9/98.
☐	Field Data Collection and Evaluation Protocol for Deriving Daily and Hourly Discharge Coefficients of Variation (CV) and Other Discharge Characteristics, 386-2000-006, 10/98.
☐	Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 386-3200-001, 6/97.
☐	Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
☐	SOP:
☐	Other:

StreamStats Report

Region ID: PA
Workspace ID: PA20250915133641191000
Clicked Point (Latitude, Longitude): 39.85967, -77.50022
Time: 2025-09-15 09:37:04 -0400



Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CARBON	Percentage of area of carbonate rock	0	percent
DRNAREA	Area that drains to a point on a stream	1.35	square miles
PRECIP	Mean Annual Precipitation	45	inches
ROCKDEP	Depth to rock	4.9	feet
STRDEN	Stream Density -- total length of streams divided by drainage area	1.33	miles per square mile

General Disclaimers

Parameter values have been edited, computed flows may not apply.

Low-Flow Statistics

Low-Flow Statistics Parameters [Low Flow Region 2]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
CARBON	Percent Carbonate	0	percent	0	99
DRNAREA	Drainage Area	1.35	square miles	4.93	1280
PRECIP	Mean Annual Precipitation	45	inches	35	50.4
ROCKDEP	Depth to Rock	4.9	feet	3.32	5.65
STRDEN	Stream Density	1.33	miles per square mile	0.51	3.1

Low-Flow Statistics Disclaimers [Low Flow Region 2]

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

Low-Flow Statistics Flow Report [Low Flow Region 2]

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.244	ft^3/s
30 Day 2 Year Low Flow	0.322	ft^3/s
7 Day 10 Year Low Flow	0.115	ft^3/s
30 Day 10 Year Low Flow	0.148	ft^3/s
90 Day 10 Year Low Flow	0.228	ft^3/s

Low-Flow Statistics Citations

Stuckey, M.H.,2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (http://pubs.usgs.gov/sir/2006/5130/)

Application Version: 4.29.2
StreamStats Services Version: 1.2.22
NSS Services Version: 2.2.1

Input Data WQM 7.0

SWP Basin	Stream Code	Stream Name	RMI	Elevation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
13C	60247	ROCKY MOUNTAIN CREEK	**4.010**	1449.00	1.35	0.00000	0.00	☑

Stream Data

Design Cond.	LFY (cfsm)	Trib Flow (cfs)	Stream Flow (cfs)	Rch Trav Time (days)	Rch Velocity (fps)	WD Ratio	Rch Width (ft)	Rch Depth (ft)	Tributary Temp (°C)	Tributary pH	Stream Temp (°C)	Stream pH
Q7-10	0.111	0.00	0.00	0.000	0.000	0.0	0.00	0.00	20.00	7.00	0.00	0.00
Q1-10		0.00	0.00	0.000	0.000							
Q30-10		0.00	0.00	0.000	0.000							

Discharge Data

Name	Permit Number	Existing Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)	Reserve Factor	Disc Temp (°C)	Disc pH
PA DPW	PA0029297	0.3950	0.3950	0.3950	0.000	25.00	6.80

Parameter Data

Parameter Name	Disc Conc (mg/L)	Trib Conc (mg/L)	Stream Conc (mg/L)	Fate Coef (1/days)
CBOD5	20.00	2.00	0.00	1.50
Dissolved Oxygen	5.50	8.24	0.00	0.00
NH3-N	2.00	0.00	0.00	0.70

Input Data WQM 7.0

SWP Basin	Stream Code	Stream Name	RMI	Elevation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
13C	60247	ROCKY MOUNTAIN CREEK	**2.150**	1070.00	6.44	0.00000	0.00	☑

Stream Data

Design Cond.	LFY (cfsm)	Trib Flow (cfs)	Stream Flow (cfs)	Rch Trav Time (days)	Rch Velocity (fps)	WD Ratio	Rch Width (ft)	Rch Depth (ft)	Tributary Temp (°C)	Tributary pH	Stream Temp (°C)	Stream pH
Q7-10	0.111	0.00	0.00	0.000	0.000	0.0	0.00	0.00	20.00	7.00	0.00	0.00
Q1-10		0.00	0.00	0.000	0.000							
Q30-10		0.00	0.00	0.000	0.000							

Discharge Data

Name	Permit Number	Existing Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)	Reserve Factor	Disc Temp (°C)	Disc pH
		0.0000	0.0000	0.0000	0.000	25.00	7.00

Parameter Data

Parameter Name	Disc Conc (mg/L)	Trib Conc (mg/L)	Stream Conc (mg/L)	Fate Coef (1/days)
CBOD5	25.00	2.00	0.00	1.50
Dissolved Oxygen	3.00	8.24	0.00	0.00
NH3-N	25.00	0.00	0.00	0.70