Pennsylvania Department of Environmental Protection

Northwest Regional Office
CLEAN WATER PROGRAM

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application Type	**Renewal**	Application No.	**PA0222496**
Facility Type	**Municipal**	APS ID	**1118656**
Major / Minor	**Minor**	Authorization ID	**1493707**

Applicant and Facility Information

Applicant Name	**Summerville Borough Municipal Authority**	Facility Name	**Summerville Borough STP**
Applicant Address	PO Box 278	Facility Address	Anderson Drive
	Summerville, PA 15864-0278		Summerville, PA 15864-0278
Applicant Contact	Howard Johnson	Facility Contact	Andy Wonderling
Applicant Phone	(814) 856-3210	Facility Phone	(814) 856-3210
Client ID	33297	Site ID	543483
Ch 94 Load Status	Not Overloaded	Municipality	Summerville Borough
Connection Status	No Limitations	County	Jefferson
Date Application Received	July 29, 2024	EPA Waived?	Yes
Date Application Accepted	July 29, 2024	If No, Reason	
Purpose of Application	NPDES Permit Renewal.		

Summary of Review

Summerville Borough Municipal Authority (SBMA) has applied to the Pennsylvania Department of Environmental Protection (DEP) for reissuance of its NPDES permit. The permit was last reissued on January 22, 2020, and became effective on February 1, 2020. The permit expired on January 31, 2025, but the terms and conditions have been extended since that time.

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 4, 2025
X		Adam Olesnanik Adam Olesnanik, P.E. / Environmental Engineer Manager	September 4, 2025

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	.09
Latitude	41º 7' 2.30"	Longitude DP	-79º 11' 47.77"
Quad Name	Summerville	Quad Code	1012
Wastewater Description:	Sewage Effluent		

Receiving Waters	Runaway Run	Stream Code	48477
NHD Com ID	123863567	RMI	0.1000
Drainage Area	3.5	Yield (cfs/mi^2)	0.061
Q_{7-10} Flow (cfs)	0.2	Q_{7-10} Basis	Redbank Creek@St Charles
Elevation (ft)	1159.67	Slope (ft/ft)	0.0013
Watershed No.	17-C	Chapter 93 Class.	CWF
Existing Use	statewide	Existing Use Qualifier	none
Exceptions to Use	none	Exceptions to Criteria	none
Assessment Status	Impaired		
Cause(s) of Impairment	METALS, PH		
Source(s) of Impairment	ACID MINE DRAINAGE, ACID MINE DRAINAGE		
TMDL Status		Name	

Nearest Downstream Public Water Supply Intake	Hawthorn Water Company		
PWS Waters	Redbank Creek	Flow at Intake (cfs)	
PWS RMI	28.04	Distance from Outfall (mi)	11.82

Comments: The discharge is to Runaway Run at RMI 0.1. A drainage area upstream of the discharge point is estimated to be 3.5 sq.mi according to USGS StreamStats available at https://streamstats.usgs.gov/ss/. DEP's latest Integrated Water Quality Report finalized in 2024 indicates that Runaway Run is impaired for pH and metals as a result of acid mine drainage. A Total Maximum Daily Load (TMDL) has not been developed to address these impairments; therefore, no TMDL has been taken into consideration at this time. The fact sheet developed for the last permit renewal indicates that the nearest downstream water supply intake is Hawthorn Water Company located on Redbank Creek approximately 11 miles from the discharge point. Given the nature of discharge and distance, the discharge is not expected to adversely impact the water supply.

Treatment Facility Summary				
Treatment Facility Name: Summerville Borough STP				
WQM Permit No.	**Issuance Date**			
3398402	02/15/2001			
Waste Type	**Degree of Treatment**	**Process Type**	**Disinfection**	**Avg Annual Flow (MGD)**
Sewage	Secondary	Sequencing Batch Reactor	Ultraviolet	0.09
Hydraulic Capacity (MGD)	**Organic Capacity (lbs/day)**	**Load Status**	**Biosolids Treatment**	**Biosolids Use/Disposal**
0.09	160	Not Overloaded	Aerobic Digestion	Landfill

Comments: SBMA operates a municipal wastewater treatment facility designed to treated 0.09 MGD of wastewater generated from Summerville Borough (100%). This facility is a Sequencing Batch Reactor (SBR) activated sludge treatment facility consisting of two (2) SBR tanks, UV disinfection, and outfall structure. An aerobic digester is available for sludge treatment processing. Any solids generated from this facility is removed by a sludge hauling company for disposal at a landfill. SBMA also receives industrial wastewater from one industrial business known as Glen-Gery Corporation Hanley Plant. (brick making company).

Compliance History	
Summary of DMRs:	A summary of past 12 month DMR data is presented on the next page.
Summary of Inspections:	11/03/2021: DEP conducted a routine inspection and noted that no significant violations were identified at the time of inspection.
Other Comments:	Since the last permit reissuance, the facility had a number of permit violations; these violations were as follows:

Date	Description	Parameters	Results	Limits	Units	SBC
Jan-20	Other					
Jan-20	Violation of permit condition	Total Suspended Solids	32	30	mg/L	Average Monthly
Jun-21	Violation of permit condition	Total Suspended Solids	32	30	mg/L	Average Monthly
May-21						
Jan-23	Late DMR Submission					
Jun-23	Other					
Jun-23	Violation of permit condition	Total Suspended Solids	32	30	mg/L	Average Monthly
Oct-23	Late DMR Submission					
Feb-25	Violation of permit condition	Carbonaceous Biochemical Oxygen Demand (CBOD5)	26	25	mg/L	Average Monthly
Feb-25	Violation of permit condition	Carbonaceous Biochemical Oxygen Demand (CBOD5)	49	40	mg/L	Weekly Average
Aug-25	Violation of permit condition	Total Suspended Solids	51	30	mg/L	Average Monthly
Aug-25	Violation of permit condition	Total Suspended Solids	72	45	mg/L	Weekly Average

DEP's database shows there are no open violations identified by PADEP NWRO Clean Water Program.

Effluent Data

DMR Data for Outfall 001 (from July 1, 2024 to June 30, 2025)

Parameter	JUN-25	MAY-25	APR-25	MAR-25	FEB-25	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24
Flow (MGD) Average Monthly	0.37	0.039	0.043	0.039	0.057	0.049	0.039	0.032	0.027	0.028	0.025	0.023
pH (S.U.) Minimum	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.7
pH (S.U.) Maximum	6.8	6.8	6.8	6.7	6.8	6.7	6.7	6.7	6.8	6.6	6.7	6.8
DO (mg/L) Daily Minimum	5.08	4.95	5.1	5.42	5.26	5.09	5.42	5.75	5.87	5.85	5.71	5.35
CBOD5 (lbs/day) Average Monthly	2	5	6	3	6	10	5	1	1	1	< 0.5	1
CBOD5 (lbs/day) Weekly Average	2	8	6	3	7	20	6	1	1	2	< 0.5	1
CBOD5 (mg/L) Average Monthly	9	23	18	9	14	26	13	5	4	7	< 2	7
CBOD5 (mg/L) Weekly Average	12	36	22	9	14	49	18	5	5	9	< 2	8
BOD5 (mg/L) Raw Sewage Influent Average Monthly	157	151	1070	75	168	185	123	87	221	133	218	170
TSS (lbs/day) Average Monthly	6	3	3	4	5	6	6	4	1	3	3	< 1
TSS (lbs/day) Weekly Average	7	3	3	5	5	9	9	4	1	4	5	2
TSS (mg/L) Average Monthly	28	12	9	11	10	18	14	16	6	14	13	< 8
TSS (mg/L) Raw Sewage Influent Average Monthly	562	180	85	76	284	268	152	94	384	176	110	352
TSS (mg/L) Weekly Average	29	13	11	14	12	26	14	16	6	18	19	10
Fecal Coliform (No./100 ml) Geometric Mean	< 1	< 1	< 1	129	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fecal Coliform (No./100 ml) Instantaneous Maximum	< 1	< 1	< 1	158	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
UV Intensity (µw/cm²) Average Monthly	5.9	6	6.1	6.8	6.5	7.6	8.3	9.7	10.3	10.1	10.8	11.2

Parameter	JUN-25	MAY-25	APR-25	MAR-25	FEB-25	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24
Total Nitrogen (mg/L) Average Quarterly	21.5			13.1			12.34			21.26		
Ammonia (mg/L) Average Quarterly	19.6			12.6			18.04			2.87		
Total Phosphorus (mg/L) Average Quarterly	0.86			2.94			0.79			0.66		

Existing Effluent Limits and Monitoring Requirements

A table below summarizes effluent limits and monitoring requirements specified in the current NPDES permit.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average	Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	9.0 Max	XXX	1/day	Grab
Dissolved Oxygen (DO)	XXX	XXX	4.0 Daily Min	XXX	XXX	XXX	1/day	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5)	19	30	XXX	25	40	50	2/month	8-Hr Composite
Biochemical Oxygen Demand (BOD5) Raw Sewage Influent	XXX	XXX	XXX	Report	XXX	XXX	1/month	Grab
Total Suspended Solids	23	34	XXX	30	45	60	2/month	8-Hr Composite
Total Suspended Solids Raw Sewage Influent	XXX	XXX	XXX	Report	XXX	XXX	1/month	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
Ultraviolet light intensity (µw/cm²)	XXX	XXX	XXX	Report	XXX	XXX	1/day	Measured
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	1/quarter	8-Hr Composite
Ammonia-Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	1/quarter	8-Hr Composite
Total Phosphorus	XXX	XXX	XXX	Report	XXX	XXX	1/quarter	8-Hr Composite

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** .09
Latitude 41º 7' 2.30" **Longitude** -79º 11' 47.77"
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)

Comments: Since the facility utilizes UV disinfection TRC effluent standards are not applicable.

Water Quality-Based Limitations

CBOD5, NH3-N and Dissolved Oxygen (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 technical guidance no. 391-2000-007 describes the technical methods contained in the model for conducting wasteload allocation analyses and for determining recommended limits for point source discharges. DEP recently updated this model (ver. 1.1) to include new ammonia criteria that has been approved by US EPA as part of the 2017 Triennial Review. The model output indicates WQBELs for Ammonia-Nitrogen are required, and all other existing limits are still appropriate. The fact sheet developed for the last permit renewal also had the same results but for some reason, effluent limits were not included in the permit, but the permit instead included a quarterly monitoring requirement. It appears it was unintentionally excluded from the permit as there is no justification mentioned in the fact sheet as to why only monitoring requirement was included in the permit. It is recommended to include these limits as summer limits and a monthly sampling requirement is recommended for ammonia-nitrogen. For winter, effluent limits are developed using a multiplier of 3.0 based on DEP's technical guidance no. 391-2000-003. The instantaneous maximum effluent limits are developed using a multiplier of 2.0 based on DEP's technical guidance no. 391-2000-013. Imposing these effluent limits is supported by DEP's SOP no. BCW-PMT-033. The data reported in the DMR shows high effluent concentrations of ammonia-nitrogen; yet, these data are quarterly data; therefore it is unclear if the facility is able to achieve compliance with these limits.

Toxics
The application submitted for this permit renewal did not require sampling of toxics pollutants.

Best Professional Judgment (BPJ) Limitations

Dissolved Oxygen
A minimum of 4.0 mg/L for DO is an existing effluent limit and will remain unchanged in the permit to ensure that the facility continues to protect all aquatic life. This approach is consistent with DEP's SOP no. BPNPSM-PMT-033.

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).

Influent BOD & TSS Monitoring
As a result of negotiation with EPA, the existing influent monitoring reporting requirement for TSS and BOD5 will be maintained in the draft permit. This requirement has been consistently assigned to all municipal wastewater treatment facilities.

E. Coli Monitoring Requirement
DEP's SOP no. BPNPSM-PMT-033 recommends a quarterly routine monitoring of E. Coli for all sewage facilities that have design flow less than 0.1 MGD but greater than 0.05 MGD. A quarterly monitoring for E. Coli will therefore be included in the permit.

Ultraviolet Output Monitoring
DEP's SOP no. BPNPSM-PMT-033 recommends a routine monitoring of UV output when the UV system is used for disinfection in lieu of chlorine. Therefore, a continuation of UV disinfection output monitoring is recommended.

Total Nitrogen & Total Phosphorus
A continuation of nutrient monitoring is recommended. This approach is consistent with DEP's SOP no. BPNPSM-PMT-033. Since the facility has performed nutrient monitoring previously and the stream segment where the discharge is located at is not impaired for nutrients, a quarterly sampling of nutrients is still acceptable.

Monitoring Frequency and Sample Type
Unless otherwise specified throughout this fact sheet, monitoring frequencies and sample types are derived from the "NPDES Permit Writer's Manual" (362-0400-001) and/or BPJ.

Mass Loading Limitations
All effluent mass loading limits will be based on the formula: design flow x concentration limit x conversion factor of 8.34.

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.

Class A Wild Trout Fishery
No Class A Wild Trout Fisheries are also impacted by this discharge.

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.

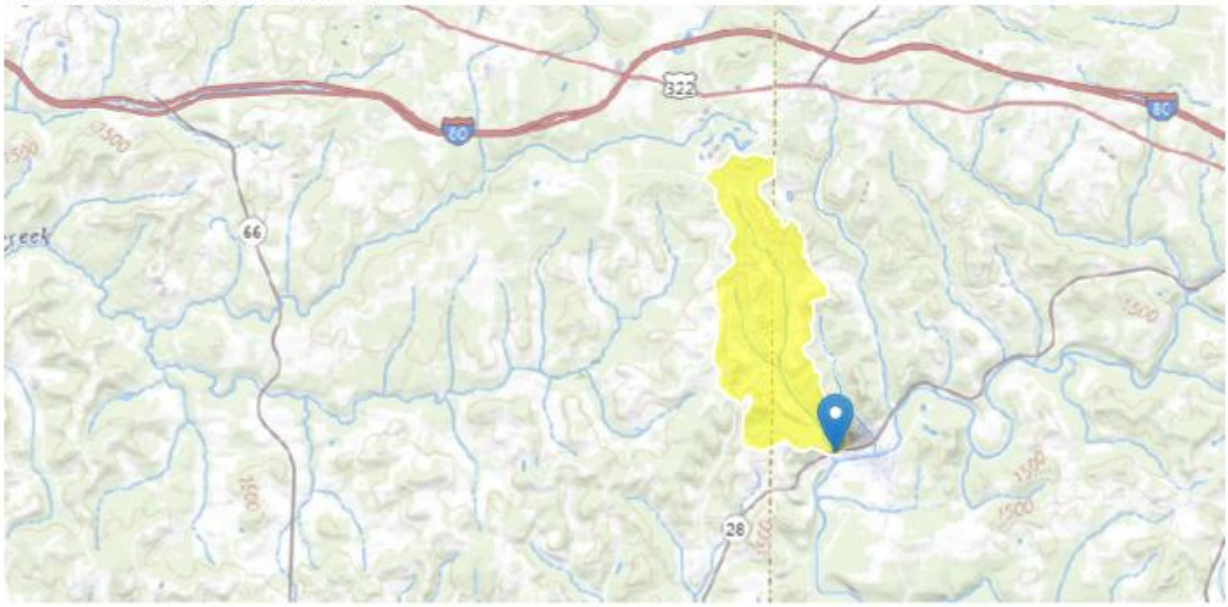
Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average	Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	9.0 Max	XXX	1/day	Grab
Dissolved Oxygen (DO)	XXX	XXX	4.0 Daily Min	XXX	XXX	XXX	1/day	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5)	19	30	XXX	25	40	50	2/month	8-Hr Composite
Biochemical Oxygen Demand (BOD5) Raw Sewage Influent	XXX	XXX	XXX	Report	XXX	XXX	1/month	Grab
Total Suspended Solids	23	34	XXX	30	45	60	2/month	8-Hr Composite
Total Suspended Solids Raw Sewage Influent	XXX	XXX	XXX	Report	XXX	XXX	1/month	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
Ammonia-Nitrogen May 1- Oct 31	3.8	XXX	XXX	5.0	XXX	10.0	2/month	8-Hr Composite
Ammonia-Nitrogen Nov 1 – Apr 30	11.3	XXX	XXX	15.0	XXX	30.0	2/month	8-Hr Composite
Ultraviolet light intensity (µw/cm²)	XXX	XXX	XXX	Report	XXX	XXX	1/day	Measured
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	1/quarter	8-Hr Composite
Total Phosphorus	XXX	XXX	XXX	Report	XXX	XXX	1/quarter	8-Hr Composite
E. Coli (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: PA20250904012458889000
Clicked Point (Latitude, Longitude): 41.11735, -79.19638
Time: 2025-09-03 21:25:19 -0400



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Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	3.5	square miles
ELEV	Mean Basin Elevation	1439	feet
PRECIP	Mean Annual Precipitation	44	inches

Low-Flow Statistics

Low-Flow Statistics Parameters [Low Flow Region 3]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	3.5	square miles	2.33	1720
ELEV	Mean Basin Elevation	1439	feet	898	2700
PRECIP	Mean Annual Precipitation	44	inches	38.7	47.9

Low-Flow Statistics Flow Report [Low Flow Region 3]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct, RMSE: Root Mean Squared Error, PseudoR^2: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	SE	ASEp
7 Day 2 Year Low Flow	0.359	ft^3/s	43	43
30 Day 2 Year Low Flow	0.528	ft^3/s	38	38
7 Day 10 Year Low Flow	0.153	ft^3/s	54	54
30 Day 10 Year Low Flow	0.22	ft^3/s	49	49
90 Day 10 Year Low Flow	0.326	ft^3/s	41	41

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
17C	48477	RUNAWAY RUN	**0.100**	1159.00	3.50	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	0.061	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
Summerville STP	PA0222496	0.0900	0.0900	0.0900	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	4.00	8.24	0.00	0.00
NH3-N	25.00	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
17C	48477	RUNAWAY RUN	**0.000**	1154.00	3.52	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	0.061	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