

Application Type Renewal
Wastewater Type Sewage
Facility Type SRSTP

**NPDES PERMIT FACT SHEET
INDIVIDUAL SFTF/SRSTP**

Application No. PA0254860
APS ID 1008206
Authorization ID 1299716

Applicant, Facility and Project Information

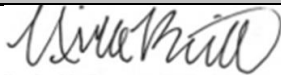

Applicant Name	<u>Raymond William</u>	Facility Name	<u>Raymond SRSTP</u>
Applicant Address	<u>5431 Yukon Court Suite A Fedrick, MD 21703</u>	Facility Address	<u>969 Peninsula Drive Indian Lake Borough Central City, PA 15926</u>
Applicant Contact	<u>Raymond William</u>	Facility Contact	<u>Raymond William</u>
Applicant Phone	<u>240-674-8847</u>	Facility Phone	<u>240-674-8847</u>
Client ID	<u>330342</u>	Site ID	<u>780888</u>
SIC Code	<u>8800</u>	Municipality	<u>Indian Lake Borough</u>
SIC Description	<u>Private Households</u>	County	<u>Somerset</u>
Date Application Received	<u>December 19, 2019</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>January 23, 2020</u>	WQM App. No.	<u>5614401, Issued October 28, 2014</u>
Project Description	<u>NPDES permit renewal for existing SRSTP</u>		

Summary of Review

On December 19, 2019 the Department received a renewal application for NPDES permit PA0254860. The application was received late after the permit expired on October 31, 2019, however the expired permit number will be retained. The facility's discharge is via Outfall 001 to an unnamed tributary (referred to as Indian Lake) of Rhoads Creek, which is classified as a Cold Water Fishery in 25 Pa. Code Chapter 93. Rhoads Creek is a tributary of Stony Creek River. This facility is not eligible for a General NPDES permit because the design is not in accordance with the current Small Flow Treatment Facilities Manual (362-0300-002) design requirements.

Authorization to construct the facility was granted under Water Quality Management (WQM) Permit No. 5614401, issued on October 28, 2014. The 0.0004 MGD (400 gpd) facility consists of a 1000 gallon dual compartment septic tank with effluent filter, a biofilter with peat filter media, a chlorinator, and a 500 gallon chlorine contact tank. The permittee entered an Operation and Maintenance Agreement with Musser Sewage Specialists, LLC but the contractor has since terminated the contract. The permittee is in the process of being trained and will collect future samples themselves. The permittee has a Maintenance Agreement with Premier Tech Environmental (manufacturer) for the Ecoflo Biofilter. The current permit issued on October 23, 2014 has the following effluent limitations:

Parameter	Average Monthly (mg/L)	Instant. Maximum (mg/L)	Measurement Frequency	Sample Type
Flow (MGD)	Report	XXX	1/year	Measured
Total Residual Chlorine (TRC)	Report	XXX	1/quarter	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5)	10	20	1/year	Grab
Total Suspended Solids	10	20	1/year	Grab
Fecal Coliform (No./100 mL)	200 Geo Mean	XXX	1/year	Grab

Approve	Deny	Signatures	Date
X		 Nicole H. Benoit, P.E. / Environmental Engineering Specialist	January 23, 2021
X		 Christopher Kriley, P.E. / Environmental Program Manager	January 25, 2021

Summary of Review

Effluent limitations for renewal will be established in accordance with the Standard Operating Procedure *SOP No. BCW-PMT-003; Final, November 9, 2012; Revised, May 17, 2019; Version 1.8; New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications.*

Rhoads Creek is located within the Kiskimintas-Conemaugh TMDL however no Wasteload Allocation (WLA) has been assigned to the facility. Due to the small flow and no reasonable potential to contribute to the acid mine drainage impacts, no limitations or monitoring will be imposed for the impairment pollutants of concern.

Sewage discharges with design flows < 2,000 gpd do not require monitoring for Total Nitrogen and Total Phosphorus in new and reissued permits.

The effluent limitations in the current permit issued in 2014 are the same effluent limitations and sampling frequency recommended in the SOP except for the TRC frequency and CBOD5 instead of BOD5.

The SOP recommends TRC monitored once per month, but the SOP also states: *If an existing facility has been well-maintained and monitoring frequencies in the existing permit are less stringent than those below, the existing frequencies may be carried over to the renewal, but in no case may monitoring be "upon request."* The compliance review indicated that this facility has not submitted Discharge Monitoring Reports (DMRs) nor Annual Monitoring Reports (AMRs) as required in the permit. A routine Department inspection has not occurred yet either, however the Operations section has been notified and intends to conduct an inspection once the permit has been issued and review the permit conditions with the permittee. The TRC frequency will remain once per quarter since this residence is a secondary home and is occupied only occasionally. Future permit renewals should reconsider the sampling frequency if future DMR data suggests inadequate performance of the system. Reporting of flow will be set to quarterly as well.

The recommended BOD5 limits are an average of 10 mg/L and an IMAX of 20 mg/L. The current permit imposed CBOD5 at the same concentration levels as the recommended BOD5. The BOD5 analytical test measures carbonaceous organic material as well as nitrogenous materials whereas the CBOD5 analytical test only measures the carbonaceous organic material. An elevated BOD5 result will therefore indicate if either carbonaceous or nitrogenous (including ammonia) chemicals are present in the discharge. Since BOD5 is inclusive of CBOD-5 and the concentrations will remain the same, the effluent limitation is more stringent and does not violate anti-backsliding requirements. The renewed permit will impose effluent limitations for BOD5 at the recommended 1/year frequency.

The applicant has complied with Act 14 Notifications and no comments were received.

The permittee does not use eDMR and current policy does not require eDMR to be used for SFTFs.

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.	<u>001</u>	Design Flow (MGD)	<u>0.0004</u>
Latitude	<u>40° 02' 47"</u>	Longitude	<u>-78° 51' 55"</u>
Quad Name	<u>Central City</u>	Quad Code	<u>1815</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary (Indian Lake) to Rhoads Creek (CWF)</u>	Stream Code	<u>45737</u>
NHD Com ID	<u>123716706</u>	RMI	<u>4.4900</u>
Drainage Area	<u>5.44 sq. mi.</u>	Yield (cfs/mi ²)	<u>0.064</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.349</u>	Q ₇₋₁₀ Basis	<u>U.S.G.S. StreamStats</u>
Elevation (ft)	<u>2300</u>	Slope (ft/ft)	<u>0.00001</u>
Watershed No.	<u>18-E</u>	Chapter 93 Class.	<u>CWF</u>
Existing Use	<u>N/A</u>	Existing Use Qualifier	<u>N/A</u>
Exceptions to Use	<u>N/A</u>	Exceptions to Criteria	<u>None</u>
Assessment Status	<u>Not Assessed</u>		
Cause(s) of Impairment	<u>N/A</u>		
Source(s) of Impairment	<u>N/A</u>		
TMDL Status	<u>Final</u>	Name	<u>Kiskiminetas-Conemaugh River Watersheds TMDL</u>
Background/Ambient Data		Data Source	
pH (SU)	<u>Ambient</u>		
Temperature (°F)	<u>Ambient</u>		
Hardness (mg/L)	<u>Ambient</u>		
Other:	<u>N/A</u>		
Nearest Downstream Public Water Supply Intake	<u>Hooversville Municipal Authority</u>		
PWS Waters	<u>Stony Creek River</u>	Flow at Intake (cfs)	<u>N/A</u>
PWS RMI	<u>25</u>	Distance from Outfall (mi)	<u>17</u>

Changes Since Last Permit Issuance: None

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" (362-0400-001), 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	Annual Average	Maximum	Instant. Maximum		
Flow (MGD)	Report Avg Quarterly	XXX	XXX	XXX	XXX	XXX	1/quarter	Measured
Total Residual Chlorine (TRC)	XXX	XXX	XXX	Report Avg Quarterly	XXX	XXX	1/quarter	Grab
Biochemical Oxygen Demand (BOD5)	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
Total Suspended Solids	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	XXX	1/year	Grab

Compliance Sampling Location: 001

Appendices

Chapter 93 Designation

U.S.G.S. StreamStats Watershed Delineation and Low Flow Analysis

25 § 93.9t

ENVIRONMENTAL PROTECTION

Pt. I

Source

The provisions of this § 93.9s adopted March 6, 1992, effective March 7, 1992, 22 Pa.B. 1037; amended July 17, 1992, effective July 18, 1992, 22 Pa.B. 3741; amended June 27, 1997, effective June 28, 1997, 27 Pa.B. 3050; amended February 11, 2005, effective February 12, 2005, 35 Pa.B. 1197; amended July 19, 2013, effective July 20, 2013, 43 Pa.B. 4080; amended July 10, 2020, effective July 11, 2020, 50 Pa.B. 3426. Immediately preceding text appears at serial pages (388951) to (388957).

Cross References

This section cited in 25 Pa. Code § 16.51 (relating to table); 25 Pa. Code § 93.1 (relating to definitions); 25 Pa. Code § 93.4 (relating to Statewide water uses); 25 Pa. Code § 93.7 (relating to specific water quality criteria); and 25 Pa. Code § 93.9 (relating to designated water uses and water quality criteria).

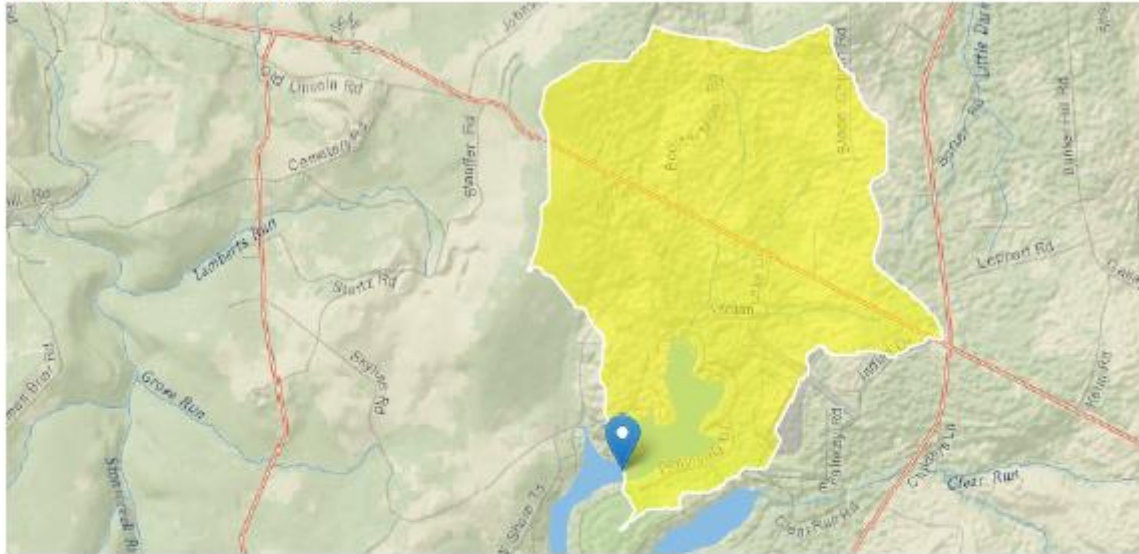
§ 93.9t. Drainage List T.

Ohio River Basin in Pennsylvania
Kiskiminetas River

Stream	Zone	County	Water Uses Protected	Exceptions To Specific Criteria
1—Ohio River				
2—Allegheny River				
3—Kiskiminetas River				
4—Conemaugh River				
5—Stony Creek	Basin, Source to Beaverdam Creek	Somerset	CWF	None
6—Beaverdam Creek	Basin	Somerset	HQ-CWF	None
5—Stony Creek	Main Stem, Beaverdam Creek to Quemahoning Creek	Somerset	TSF	None
6—Unnamed Tributaries to Stony Creek	Basins, Beaverdam Creek to Quemahoning Creek	Somerset	CWF	None
6—Oven Run	Basin	Somerset	CWF	None
6—Fallen Timber Run	Basin	Somerset	CWF	None
6—Quemahoning Creek	Main Stem	Somerset	CWF	None
7—Unnamed Tributaries to Quemahoning Creek	Basins	Somerset	CWF	None
7—Hoffman Run	Basin	Somerset	CWF	None
7—North Branch Quemahoning Creek	Main Stem	Somerset	CWF	None
8—Unnamed Tributaries to North Branch Quemahoning Creek	Basins	Somerset	CWF	None
8—Horner Run	Basin	Somerset	CWF	None

PA0254860 Raymond SRSTP

Region ID: PA
 Workspace ID: PA20201204005302250000
 Clicked Point (Latitude, Longitude): 40.04638, -78.86898
 Time: 2020-12-03 19:56:02 -0500



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	5.44	square miles
ELEV	Mean Basin Elevation	2440	feet
PRECIP	Mean Annual Precipitation	43	inches

Low-Flow Statistics Parameters(Low Flow Region 3)

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	5.44	square miles	2.33	1720
ELEV	Mean Basin Elevation	2440	feet	898	2700
PRECIP	Mean Annual Precipitation	43	inches	38.7	47.9

Low-Flow Statistics Flow Report(Low Flow Region 3)

PIl: Prediction Interval-Lower, PIu: Prediction Interval-Upper, SEp: Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	SE	SEp
7 Day 2 Year Low Flow	0.797	ft ³ /s	43	43
30 Day 2 Year Low Flow	1.11	ft ³ /s	38	38
7 Day 10 Year Low Flow	0.349	ft ³ /s	54	54
30 Day 10 Year Low Flow	0.457	ft ³ /s	49	49

Statistic	Value	Unit	SE	SEp
90 Day 10 Year Low Flow	0.674	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/>)

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