

Application Type Renewal
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0232793
APS ID 1037130
Authorization ID 1351197

Applicant, Facility and Project Information

Applicant Name	<u>Jonah A. Wykoff</u>	Facility Name	<u>Jonah A. Wykoff SRSTP</u>
Applicant Address	<u>6633 Chestnut Grove Highway</u> <u>Luthersburg, PA 15848-5014</u>	Facility Address	<u>6633 Chestnut Grove Highway</u> <u>Luthersburg, PA 15848-5014</u>
Applicant Contact	<u>Jonah Wykoff</u>	Facility Contact	<u>Jonah Wykoff</u>
Applicant Phone	<u>(814) 603-9568</u>	Facility Phone	<u>(814) 603-9568</u>
Client ID	<u>350486</u>	Site ID	<u>816589</u>
SIC Code	<u>4952</u>	Municipality	<u>Bloom Township</u>
SIC Description	<u>Trans. & Utilities - Sewerage Systems</u>	County	<u>Clearfield</u>
Date Application Received	<u>April 22, 2021</u>	WQM Required	<u>No.</u>
Date Application Accepted	<u>May 5, 2021</u>	WQM App. No.	<u>N/A</u>
Project Description	<u>Application for the renewal of an existing individual permit for a SRSTP.</u>		

Summary of Review

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.

This application is for the renewal of an existing individual Single Residence permit that replaced a malfunctioning onlot system. An individual Single Residence permit was required due to the use of an alternative design that is not covered in the *Small Flow Treatment Facilities Design Manual* (Document 362-0300-002.) This system is not listed in the *Alternate System Guidance* (Document 362-0300-007), but the design engineer certified that the proposed system would meet the advance treatment effluent limits. Additionally, this system is approved under the Onlot Alternate Technology Listings.

Approve	Deny	Signatures	Date
X		<i>Jonathan P. Peterman</i> Jonathan P. Peterman / Project Manager	August 13, 2021
X		<i>Nicholas W. Hartranft</i> Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	August 13, 2021

Discharge, Receiving Waters and Water Supply Information

Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.0004</u>
Latitude	<u>41° 1' 36.00"</u>	Longitude	<u>-78° 40' 37.81"</u>
Quad Name	<u>Luthersburg</u>	Quad Code	<u>1016</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Little Anderson Creek (CWF, MF)</u>	Stream Code	<u>26687</u>
NHD Com ID	<u>61830953</u>	RMI	<u>0.1900</u>
Drainage Area	<u>N/A</u>	Yield (cfs/mi ²)	<u>N/A</u>
Q ₇₋₁₀ Flow (cfs)	<u>N/A</u>	Q ₇₋₁₀ Basis	<u>N/A</u>
Elevation (ft)	<u>N/A</u>	Slope (ft/ft)	<u>N/A</u>
Watershed No.	<u>08B</u>	Chapter 93 Class.	<u>Cold Water Fishes, Migratory Fishes</u>
Existing Use	<u>CWF</u>	Existing Use Qualifier	<u>N/A</u>
Exceptions to Use	<u>N/A</u>	Exceptions to Criteria	<u>None</u>
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>METALS, PH, SILTATION</u>		
Source(s) of Impairment	<u>ACID MINE DRAINAGE, ACID MINE DRAINAGE, GRAZING IN RIPARIAN OR SHORELINE ZONES</u>		
TMDL Status	<u>Final (4/7/2005)</u>	Name	<u>Anderson Creek</u>

Changes Since Last Permit Issuance: N/A.

Other Comments: None.

Treatment Facility Summary

Treatment System

The individual components are as follows:

- One (1) 1,000 gallon dual compartment septic tank.
- One (1) Effluent filter.
- One (1) Orenco Advantex AX20RTUV treatment tank.
 - One (1) UV Disinfection System.
- One (1) Outfall.

Anti-Backsliding

In accordance with 40 CFR 122.44(l)(1) and (2), this permit does not contain effluent limitations, standards, or conditions that are less stringent than the previous permit

TMDL Impairment

The Department's Geographic Information System (GIS) shows this segment of Little Anderson Creek is not attaining its use. This segment is impaired by metals (iron, aluminum, and manganese), siltation, and pH due to acid mine drainage and agricultural runoff. The TMDL does not provide a specific wasteload allocation for onlot facilities which are generally excluded from TMDLs. Additionally, this facility is existing malfunctioning onlot system and would not be considered a new source. Given the regulations contained in 40 CFR §122.44(d)(1)(ii)&(iii), it can be determined that the type of effluent from this facility has no "Reasonable potential to cause, or contributes to an in-stream excursion above the allowable ambient concentration of a State numeric criteria within a State water quality standard for an individual pollutant." Therefore, the permit will not be required to contain effluent limits for the pollutant addressed in the TMDL.

Chesapeake Bay Requirements

Facilities that are designed based on a flow of less than 2,000 GPD (400 GPD design flow for this facility) are not a part of Pennsylvania's Chesapeake Bay Tributary Strategy. Accordingly, it is not practicable to require the permittee to perform nutrient monitoring under this program.

Existing Effluent Limitations and Monitoring Requirements

Existing Limits – Outfall 001

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	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	9.0	XXX	1/year	Grab
BOD5	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	XXX	1/year	Grab

The existing effluent limits for Outfall 001 were based on a design flow of 0.0004 MGD.

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) and/or BPJ.

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	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	9.0	XXX	1/year	Grab
BOD5	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	XXX	1/year	Grab

The proposed effluent limits for Outfall 001 are based on a design flow of 0.0004 MGD.

Development of Effluent Limitations and Monitoring Frequency

BOD₅ (10 mg/L) and TSS (10mg/L) are technology-based limits stipulated in the *Technical Guidance for the Development and Specification of Effluent Limitations* (362-0400-001). 40 CFR Section 133.102 provides the basis of effluent limitations for pH. The fecal coliform limits correspond with 25 PA Code § 92a.47 (a)(4). The design incorporates UV disinfection. No monitoring is required for UV disinfection systems at SRSTPs. All of the monitoring frequencies sample types correspond with the policies and procedures for SRSTP's in lieu of the *Technical Guidance for the Development and Specification of Effluent Limitations* (362-0400-001).

Compliance Review / History

-A WMS Query was run at *Reports - Violations & Enforcements – Open Violations for Client Report* to determine whether there are any unresolved violations associated with the client that will affect issuance of the permit (per CSL Section 609). This query revealed that there were no unresolved violations.