

Application Type New
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0284947
APS ID 1066620
Authorization ID 1401670

Applicant, Facility and Project Information

Applicant Name	<u>Trisha Woroszylo</u>	Facility Name	<u>Woroszylo Properties SRSTP</u>
Applicant Address	<u>221 Silver Spring Lane</u> <u>New Brighton, PA 15066-3585</u>	Facility Address	<u>221 Silver Spring Lane</u> <u>New Brighton, PA 15066-3585</u>
Applicant Contact	<u>Trisha Woroszylo</u>	Facility Contact	<u>Trisha Woroszylo</u>
Applicant Phone	<u>(724) 622-1340</u>	Facility Phone	<u>(724) 622-1340</u>
Client ID	<u>370904</u>	Site ID	<u>858274</u>
SIC Code	<u>8800</u>	Municipality	<u>Daugherty Township</u>
SIC Description	<u>Private Households</u>	County	<u>Beaver</u>
Date Application Received	<u>June 27, 2022</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>July 5, 2022</u>	WQM App. No.	<u>0422401</u>
Project Description	<u>Application for a new NPDES Permit for discharge of treated sewage.</u>		

Summary of Review

The permittee proposes to construct a 0.0004 MGD single residence treatment facility to replace a malfunctioning on lot septic system serving an existing single-family residence.

The sewage from this facility is treated with extended aeration, biofilm filtration, and UV disinfection prior to discharging to Trib 33993 to Blockhouse Run Creek, which is classified as a Warm Water Fishery (WWF) per Chapter 93 Designated Use.

Associated WQM Permit No. 0422401 is also pending issuance by the department.

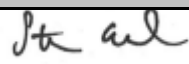

Single Residence Sewage Treatment Plant Permittees are not required to register for eDMR.

Act 14-PL 834 Municipal Notification was provided by letters sent to Daugherty Township and Beaver County dated April 21, 2022.

Sludge use and disposal was not indicated on the application.

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

Approve	Deny	Signatures	Date
X		 Stephanie Conrad / Environmental Engineering Specialist	August 16, 2022
x		 Mahbuba Iasmin, Ph.D., P.E. / Environmental Engineer Manager	November 15, 2022

Summary of Review

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>.0004</u>
Latitude	<u>40° 45' 28"</u>	Longitude	<u>-80° 16' 00"</u>
Quad Name	<u>Beaver Falls</u>	Quad Code	<u>1203</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Tributary 33993 of Blockhouse Run (WWF)</u>	Stream Code	<u>33993</u>
NHD Com ID	<u>123918269</u>	RMI	<u>1.45</u>
Drainage Area	<u>0.63</u>	Yield (cfs/mi ²)	<u>0.0075</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.0045</u>	Q ₇₋₁₀ Basis	<u>USGS Stream Stats</u>
Elevation (ft)	<u></u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>20-B</u>	Chapter 93 Class.	<u>WWF</u>
Existing Use	<u></u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u></u>	Exceptions to Criteria	<u></u>
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	<u></u>		
Source(s) of Impairment	<u></u>		
TMDL Status	<u></u>	Name	<u></u>
Background/Ambient Data		Data Source	
pH (SU)	<u></u>		<u></u>
Temperature (°F)	<u></u>		<u></u>
Hardness (mg/L)	<u></u>		<u></u>
Other:	<u></u>		<u></u>
Nearest Downstream Public Water Supply Intake	<u>Center Township Water Authority</u>		
PWS Waters	<u>Ohio River</u>	Flow at Intake (MGD)	<u>3.0</u>
PWS RMI	<u>9553.53</u>	Distance from Outfall (mi)	<u>7.74</u>

Changes Since Last Permit Issuance: N/A, new permit

Other Comments: This facility discharges to a dry swale which runs into Tributary 33993 to Blockhouse Run Creek.

Treatment Facility Summary				
Treatment Facility Name: Woroszylo Properties SRSTP				
WQM Permit No.		Issuance Date		
0422401		Under Department Review		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Tertiary	Extended Aeration and Biofilm Filtration	Ultraviolet (UV)	0.0004
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.0004		N/A		

Changes Since Last Permit Issuance: N/A- New Permit Issuance

Other Comments: WQM Permit No. 0422401, currently under department review, approves construction of a STP with a rated annual average design flow of 0.0004 MGD. The treatment process consists of:

- One (1) 1300-gallon Singulair Bio-Kinetic Model 960-500 extended aeration treatment
- One (1) 1055-gallon Hydro-Kinetic-Bio-Film Reactor
- One (1) Model AT 1500 UV disinfection.

Act 537 Planning was approved for this project on April 7, 2022

Compliance History

Other Comments: **This is a new facility therefore there is no applicable compliance history.**

Development of Effluent Limitations

Outfall No. <u>001</u>	Design Flow (MGD) <u>0.0004</u>
Latitude <u>40° 45' 28"</u>	Longitude <u>-80° 16' 00"</u>
Wastewater Description: <u>Sewage Effluent</u>	

Technology-Based Limitations (TBELs)

The following effluent limitations and monitoring requirements, at a minimum, will be established in all new and renewed SFTF permits based on the requirements of DEP's "Standard Operating Procedure (SOP) for Clean Water Program New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Application" (SOP No. BCW-PMT-003, Version 1.8, Final, November 9, 2012, Revised May 17, 2019).

Parameter	Avg	IMAX	Sample Type	Frequency: SFTFs	Frequency: SRSTPs
Flow (GPD)	Report	XXX	Estimate (SRSTPs) Measured (SFTFs)	1/month	1/year
BOD5 (mg/L)	10	20	Grab	1/month	1/year
TSS (mg/L)	10	20	Grab	1/month	1/year
pH*	6.0 S.U. Inst. Min.	9.0 S.U.	Grab	1/month	1/year
TRC (mg/L)	Report for SRSTPs; Use TRC Spreadsheet to determine WQBELs or 0.02 mg/L for SFTFs		Grab	1/month	1/month
Fecal Coliform (No./100 ml)	200 Geometric Mean (SFTFs) / Average (SRSTPs)		Grab	1/month	1/year

* Technology-Based effluent limits for pH will be imposed based upon Federal Regulation 133.102(c) and State Regulation 95.2(1).

Advanced Treatment Requirements

The Department issued the guidance document, *Policy and Procedure for Evaluating Wastewater Dischargers to Intermittent and Ephemeral Streams, Drainage Channels and swales, and Storm Sewers* (391-2000-014) on April 12, 2008. The guidance document established Advanced Treatment Requirements for facilities that discharge to a drainage channel. This facility discharges to a dry swale which runs into Tributary 33993 to Blockhouse Run Creek. Single Residence Sewage Treatment Plants (SRSTP's) are exempt from the advanced treatment requirements.

Additional Considerations

Ultraviolet (UV) disinfection is used; therefore, Total Residual Chlorine (TRC) limits are not applicable. Routine monitoring of UV transmittance or intensity is not required for SRSTPs.

SRSTPs are not required to monitor for Total Nitrogen or Total Phosphorus in new and reissued permits.

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 Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/year	Grab
BOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001

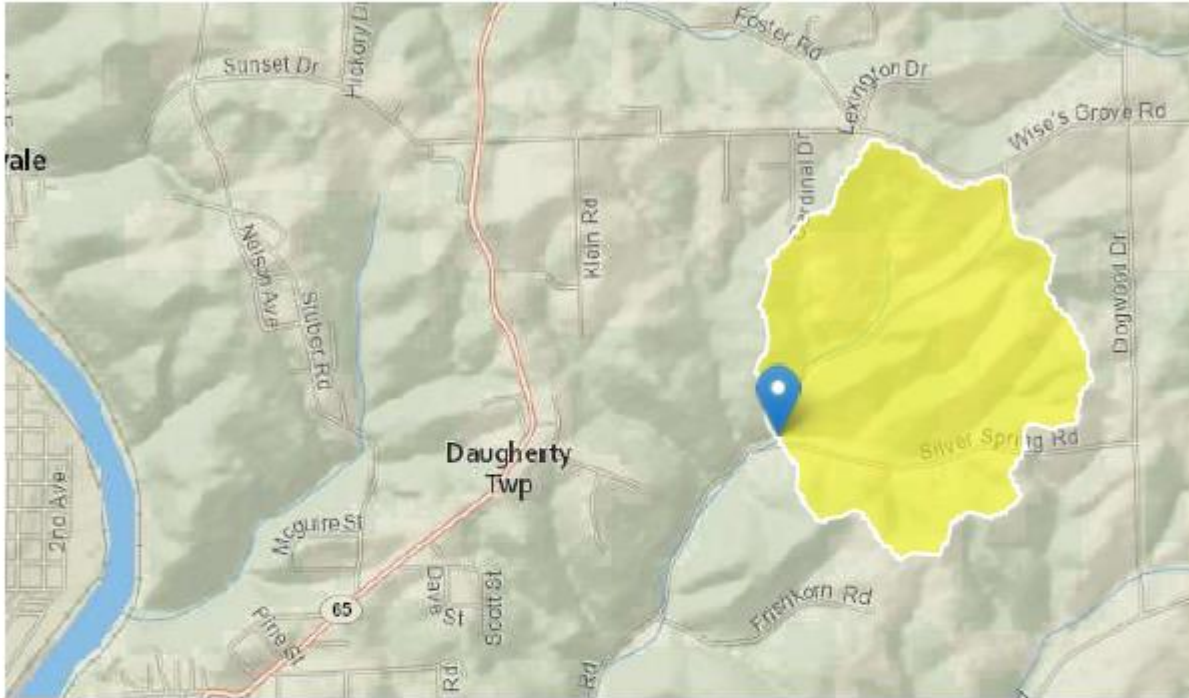
Other Comments: None

ATTACHMENT A

USGS Stream Stats Output

StreamStats Report

Region ID: PA
 Workspace ID: PA20220815140838645000
 Clicked Point (Latitude, Longitude): 40.75766, -80.27641
 Time: 2022-08-15 10:08:59 -0400



Collapse All

> Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.63	square miles
ELEV	Mean Basin Elevation	1136	feet

Low-Flow Statistics Flow Report [Low Flow Region 4]

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.0158	ft ³ /s
30 Day 2 Year Low Flow	0.0311	ft ³ /s
7 Day 10 Year Low Flow	0.0045	ft ³ /s
30 Day 10 Year Low Flow	0.00994	ft ³ /s
90 Day 10 Year Low Flow	0.0205	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/>)