

Application Type New
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0292851
APS ID 1079189
Authorization ID 1423847

Applicant, Facility and Project Information

Applicant Name	<u>Scott Weaver</u>	Facility Name	<u>Scott Weaver SRSTP</u>
Applicant Address	<u>2099 Rutledge Road</u> <u>Transfer, PA 16154</u>	Facility Address	<u>701 Mercer Road</u> <u>Greenville, PA 16125</u>
Applicant Contact	<u>Scott Weaver</u>	Facility Contact	<u></u>
Applicant Phone	<u>(724) 813-8762</u>	Facility Phone	<u></u>
Applicant Email	<u>jandsweaver@yahoo.com</u>		
Client ID	<u>374716</u>	Site ID	<u>857582</u>
SIC Code	<u>8800</u>	Municipality	<u>Delaware Township</u>
SIC Description	<u>Private Households</u>	County	<u>Mercer</u>
Date Application Received	<u>January 10, 2023</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>January 31, 2023</u>	WQM App. No.	<u>4323402</u>
Project Description	<u>Installation of Single Residence Sewage Treatment Plant</u>		

Summary of Review

This is a new discharge for an existing 3 bedrooms dwelling with proposed construction of a single residence sewage treatment plant to serve the existing dwelling.

Proposed treatment will consist of (WQM Permit No. 4323402): A Singulair Bio-Kinetic Model 960-500 treatment tank which has a total capacity of 1300 gallons and is rated for 500 gpd followed by a Hydro-Kinetic Bio-Film Reactor which has a capacity of 1055 gallons and is designed to treat up to 800 gpd with a model AT 1500 UV disinfection system. The effluent will be discharged to UNT of Shenango River (WWF), at a rate of 400 gpd.

Act 14 – Proof of Notification was submitted and received.

SPECTIAL CONDITIONS: NONE

The EPA waiver is in effect.

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.

Approve	Deny	Signatures	Date
X		Aeshah Shameseldin Aeshah Shameseldin / Civil Engineer Trainee	January 31, 2023
		Chad W. Yurisc Chad W. Yurisc, P.E. / Environmental Engineer Manager	February 27, 2023

Discharge and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	.0004
Latitude	41° 21' 22"	Longitude	-80° 21' 10"
Quad Name	Fredonia	Quad Code	41080C3
Wastewater Description: Sewage Effluent			
Receiving Waters	Unnamed Tributary of Shenango River (WWF)	Stream Code	36158
NHD Com ID	130034627	RMI	0.91 (Point of Perennial Conditions)
Drainage Area		Yield (cfs/mi ²)	
Q ₇₋₁₀ Flow (cfs)		Q ₇₋₁₀ Basis	
Elevation (ft)	1165	Slope (ft/ft)	---
Watershed No.	20-A	Chapter 93 Class.	WWF
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	---
Background/Ambient Data		Data Source	
pH (SU)	7	Default	
Temperature (°F)	25	Default	
Hardness (mg/L)	100	Default	
Other:			
Nearest Downstream Public Water Supply Intake	Reynolds Water Company		
PWS Waters	Shenango River at Big Run	Flow at Intake (cfs)	8.088
PWS RMI	55	Distance from Outfall (mi)	7.02*

*from point of perennial conditions.

Changes Since Last Permit Issuance: N/A - This is a proposed discharge (Planning was approved on July 22, 2022)

Other Comments: This SRSTP was designed where applicable in accordance with the SFTF Manual, but it does not qualify for the PAG-04 General Permit due to the use of Singulair Bio-Kinetic Model 960-500 treatment tank with a Hydro-Kinetic Bio-Film Reactor

The Singulair Bio-Kinetic Model 960-500 treatment tank is reportedly capable of meeting CBOD₅ averages of 10 mg/L and TSS averages of 10 mg/L.

In accordance with the SOP, no water quality modeling was performed since this is a SRSTP.

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 (GPD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
pH (S.U.)	XXX	XXX	6 Inst Min	XXX	XXX	9	Upon Request	Grab
BOD5	XXX	XXX	XXX	10	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	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001, after UV Disinfection.

Other Comments: Flow is monitor only based on Chapter 92a.61. The limits for BOD5, Total Suspended Solids are BPJ-based on the Department’s “Small Flow Treatment Facilities Manual.” Fecal Coliform are technology-based on Chapter 92a.47. The limits for pH are technology-based on Chapter 93.7.

Outfall Location - eMap with Aerial Imagery

pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION

eMapPA

PA STATE AGENCIES ONLINE SERVICES Josh Shapiro, Governor Rich Negrin, Acting Secretary DEP Home

Layers
Legend
Tasks

Map
eFacts Query
Advanced Query
Filter Plant Source Search

Legend

Regulated Facilities and Related Information

Streams and Water Resources

Water Quality

Existing Use Streams

- Cold Water Fish
- Exceptional Value
- High Quality
- Trout Stocking
- Warm Water Fish
- Overlap

Designated Use Streams

- Cold Water Fish
- Exceptional Value
- High Quality
- Trout Stocking
- Warm Water Fish
- Overlap
- Missing from CH93

Boundaries

County Boundaries

Municipalities

ESRI Streets & Imagery
Topographic
National Geographic

Streets
Imagery

Designated Use Streams (1 of 3)

Designated Use Gen ID: 56093

GNIS Name:

GNIS ID:

ReachCode: 05030102000757

COMID: 130025856

Length Miles: 0.409

Map Symbology: WWF

Length Miles: 0.409

Designated Use: 12

DES Use ID: 8

Use Description: WWF(WARM WATER FISHES)

Migratory_Fish: N

HUC: 05030102

Basin: N

Basin Narrative: Null

Segment Narrative: Null

Evaluation Date: Null

[Zoom to](#)

Latitude: 41 35 11.1 Longitude: -80 21 10

Locate Latitude and Longitude

Decimal Degrees DD/MM/SS

Latitude: Degrees: 41 Minutes: 21 Seconds: 22

Longitude: Degrees: -80 Minutes: 21 Seconds: 10

[Locate](#) [Close](#)

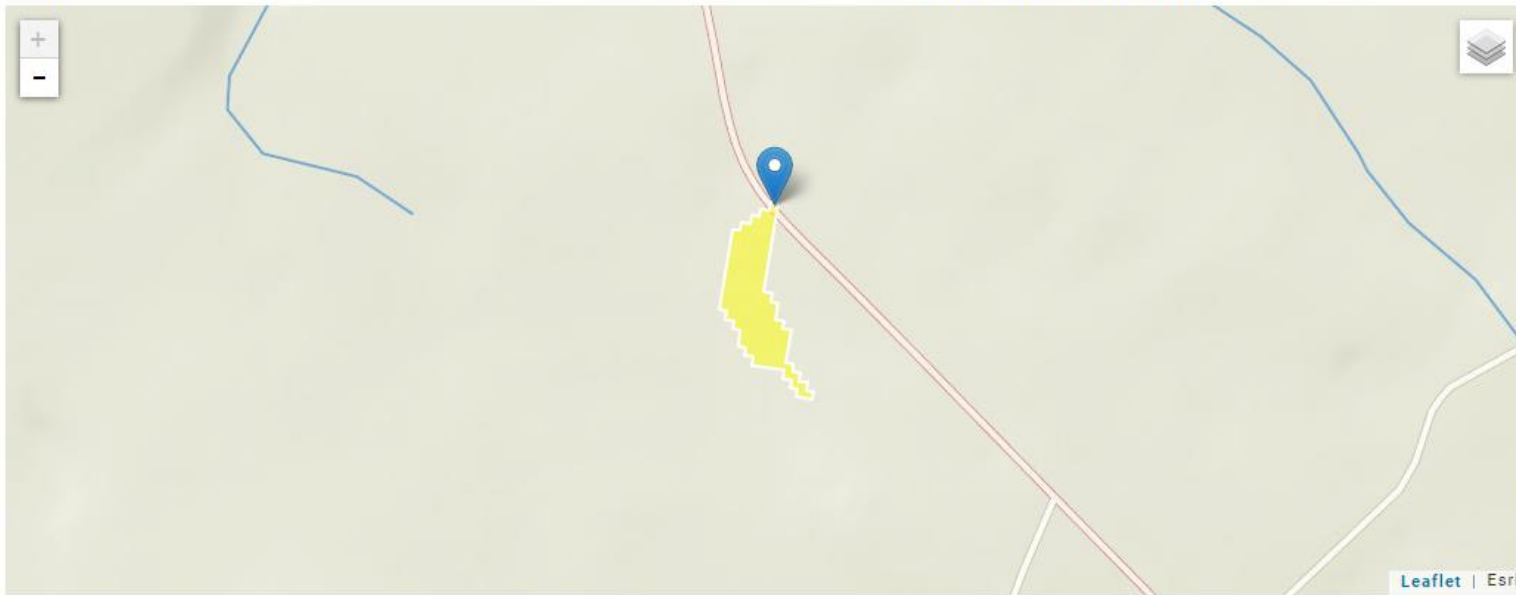
Imagery Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community; ESRI Streets: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, HRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

Drainage Area Location – StreamStats with Aerial Imagery

StreamStats Report

Region ID:
Workspace ID:
Clicked Point (Latitude, Longitude):
Time:

PA
PA20230201141357013000
41.35612, -80.35278
2023-02-01 09:14:26 -0500



+ Collapse All

> Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.00413	square miles