

Application Type New  
Wastewater Type Sewage  
Facility Type SRSTP

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

Application No. PA0293253  
APS ID 1088464  
Authorization ID 1439639

**Applicant, Facility and Project Information**

Applicant Name	<u>Shawn T Watson</u>	Facility Name	<u>Shawn Watson SRSTP</u>
Applicant Address	<u>754 Squaw Valley Road</u> <u>Emlenton, PA 16373-2706</u>	Facility Address	<u>754 Squaw Valley Road</u> <u>Emlenton, PA 16373-2706</u>
Applicant Contact	<u>Shawn Watson</u>	Facility Contact	<u></u>
Applicant Phone	<u>(412) 780-7833</u>	Facility Phone	<u></u>
Client ID	<u>377202</u>	Site ID	<u>863021</u>
SIC Code	<u>8800</u>	Municipality	<u>Scrubgrass Township</u>
SIC Description	<u>Private Households</u>	County	<u>Venango</u>
Date Application Received	<u>May 3, 2023</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u></u>	WQM App. No.	<u>6123401</u>

Project Description Single Residence Sewage Treatment Plant (SRSTP) application for an existing dwelling to replace an existing malfunctioning on-lot system.

**Summary of Review**

This is a new discharge for an existing 4-bedroom home to replace an existing malfunctioning on-lot system.

Act 14 – Notification was submitted and received.

The proposed treatment will consist of (WQM Permit No. 6123401): A Norweco Singulair Bio-Kinetic 960-500/600 GPD Wastewater Treatment System with a Norweco Singulair Hydro-Kinetic Bio-Film Reactor. The system will consist of 2 separate treatment tanks. A 1,300 gallon tank with a 450 gallon pre-treatment chamber, an extended aeration chamber with a Norweco Singulair Model 206C aerator, a final clarification chamber with a bio-kinetic system and a bio static sludge return. The second tank houses a hydro-kinetic bio-film reactor, and an inline Norweco Model AT 1500 UV disinfection unit which will provide final clarification of effluent.

There are no open violations in WMS for subject Client ID (377202) as of 05/17/2023. [5/26/2023 CWY](#)

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		Dustin Hargenrater Dustin Hargenrater / Civil Engineer Trainee	May 17, 2023
X		Chad W. Yurisc Chad W. Yurisc, P.E. / Environmental Engineer Manager	5/26/2023

Discharge and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.0005</u>
Latitude	<u>41° 10' 24.26"</u>	Longitude	<u>-79° 43' 12.1"</u>
Quad Name	<u>Emlenton</u>	Quad Code	<u>41079B6</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Allegheny River (CWF (existing use))</u>	Stream Code	<u>51153</u>
NHD Com ID	<u>100479879</u>	RMI	<u>0.3000</u>
Drainage Area	<u>.48</u>	Yield (cfs/mi <sup>2</sup> )	<u>.1</u>
Q <sub>7-10</sub> Flow (cfs)	<u>.048</u>	Q <sub>7-10</sub> Basis	<u>Default</u>
Elevation (ft)	<u>1186</u>	Slope (ft/ft)	<u>--</u>
Watershed No.	<u>16-G</u>	Chapter 93 Class.	<u>CWF</u>
Existing Use	<u>CWF(COLD WATER FISHES)</u>	Existing Use Qualifier	<u>Use Attainability Analysis</u>
Exceptions to Use		Exceptions to Criteria	
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>METALS</u>		
Source(s) of Impairment	<u>ACID MINE DRAINAGE</u>		
TMDL Status		Name	
Background/Ambient Data		Data Source	
pH (SU)	<u>7</u>	Default	
Temperature (°F)	<u>77</u>	Default	
Hardness (mg/L)	<u>100</u>	Default	
Other:			
Nearest Downstream Public Water Supply Intake		<u>Aqua Pennsylvania Inc. – Emlenton</u>	
PWS Waters	<u>Allegheny River</u>	Flow at Intake (cfs)	<u>1,376</u>
PWS RMI	<u>90</u>	Distance from Outfall (mi)	<u>.47</u>

Changes Since Last Permit Issuance: N/A – This is a new discharge (Planning was approved on 04/24/2023).

Other Comments: This SRSTP was designed where applicable in accordance with the SFTF Manual, but does not qualify for the PAG-04 General Permit due to the use of the Norweco Singulair System.

The Norweco Singulair unit 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 modeling was performed since this is an SRSTP.

DEP has evaluated information indicating that the existing use of the receiving waters is different than the designated use under 25 Pa. Code § 93.9. In developing the draft NPDES permit, DEP is proposing to protect the existing use of the receiving waters. Following DEP's notice of the receipt of the application and the draft permit in the Pennsylvania Bulletin, DEP will accept written comments during the public comment period regarding DEP's tentative determination to protect the existing use. DEP will make a final determination on existing use protection for the receiving waters as part of the final permit action.

**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.

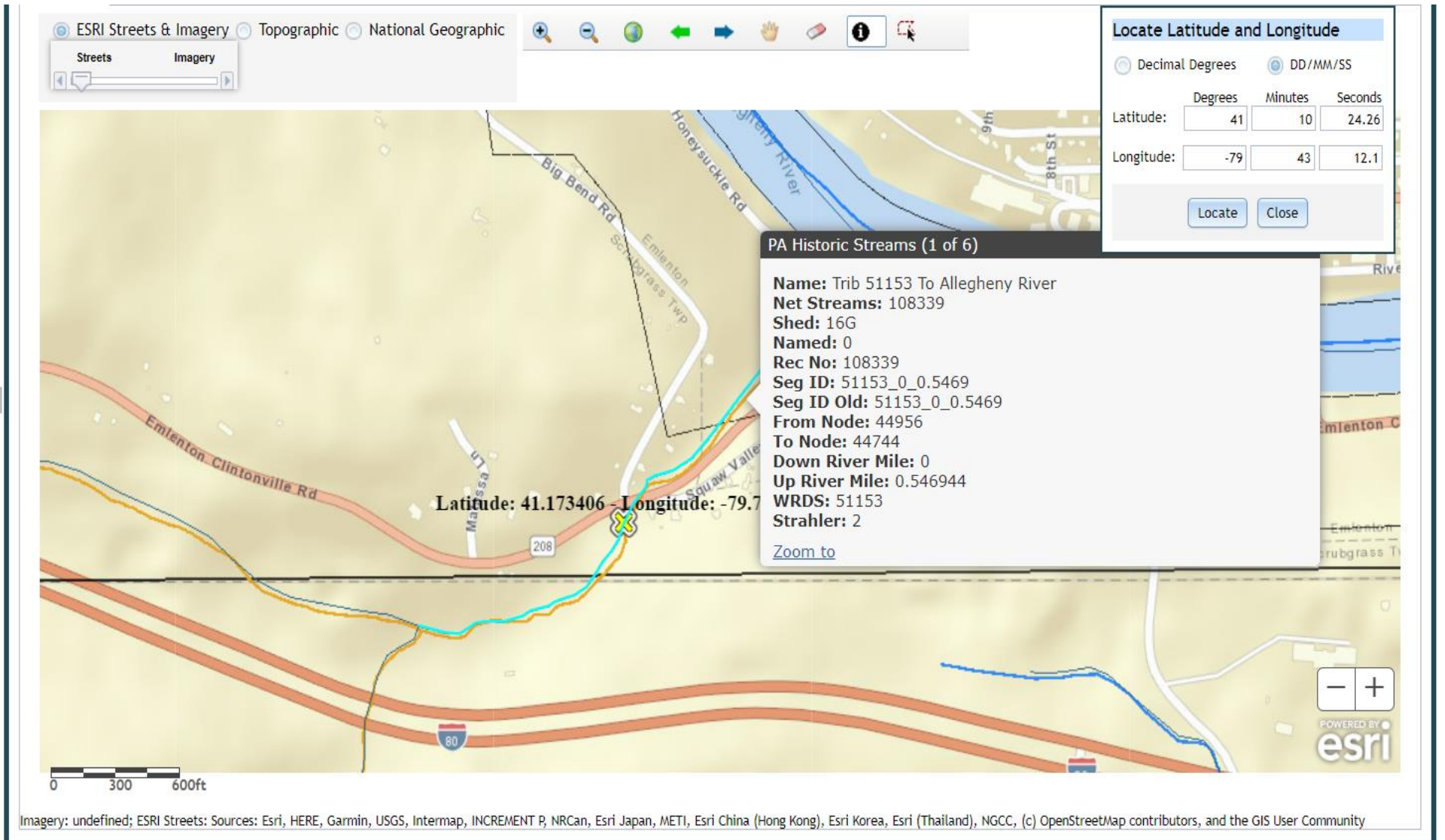
**Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.**

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> 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	6.0 Inst Min	XXX	XXX	9.0	Upon Request	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	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001, after disinfection.

Other Comments: Flow is monitor only based on Chapter 92a.61. The limits for BOD<sub>5</sub>, Total Suspended Solids, and Fecal Coliform are technology-based on Chapter 92a.47. The limits for pH are technology-based on Chapter 93.7.

Attachment 1  
eMap – Location Map



Attachment 1  
Google Earth Imagery

