

Application Type New  
Wastewater Type Sewage  
Facility Type SRSTP

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

Application No. PA0295191  
APS ID 1093123  
Authorization ID 1447836

**Applicant, Facility and Project Information**

Applicant Name	<u>Raymond Natale</u>	Facility Name	<u>Raymond Natale SRSTP</u>
Applicant Address	<u>1820 Scrubgrass Road</u> <u>Jackson Center, PA 16133-2202</u>	Facility Address	<u>1820 Scrubgrass Road</u> <u>Jackson Center, PA 16133-2202</u>
Applicant Contact	<u>Raymond Natale</u>	Facility Contact	<u></u>
Applicant Phone	<u>(412) 773-0670</u>	Facility Phone	<u></u>
Client ID	<u>378709</u>	Site ID	<u>863980</u>
SIC Code	<u>8811</u>	Municipality	<u>Findley Township</u>
SIC Description	<u>Services - Private Households</u>	County	<u>Mercer</u>
Date Application Received	<u>June 26, 2023</u>	WQM Required	<u>Yes – Application Received</u>
Date Application Accepted	<u></u>	WQM App. No.	<u>4323412</u>
Project Description	<u>This is a new application for a Single Residence Sewage Treatment Plant (SRSTP) for an existing 4-bedroom dwelling.</u>		

**Summary of Review**

This is a new discharge to serve an existing 4-bedroom home which will replace the malfunctioning on-lot septic system. Act 14 – Notification was submitted and received.

Treatment of this facility will consist of (WQM Permit No. 4323412): A Norweco Singulair Bio-Kinetic Model 960-500/600 GPD Wastewater Treatment System with a Norweco Singulair Hydro-Kinetic Bio-Film Reactor. This system will consist of two separate treatment tanks. The first tank has a volume of 1,300 gallons and houses a 450-gallon pretreatment chamber, an extended aeration chamber with a Norweco Singulair Model 206C aerator, and 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, an in-line Norweco Model AT 1500 UV Disinfection Unit, which will provide final disinfection of the effluent.

There are no open violations in WMS for the subject Client ID (378709) as of 7/27/2023. [7/31/2023 CWY](#)

EPA Waiver is in effect.

An updated PNDI receipt was submitted prior to planning approval. The date that the updated PNDI was executed was 5/2/2023.

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	July 27, 2023
X		Chad W. Yurisc Chad W. Yurisc, P.E. / Environmental Engineer Manager	7/31/2023

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° 13' 31"</u>	Longitude	<u>-80° 7' 42"</u>
Quad Name	<u>Mercer</u>	Quad Code	<u>41080B2</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Mill Creek (TSF)</u>	Stream Code	<u>35766</u>
NHD Com ID	<u>130031515</u>	RMI	<u>0.1200</u>
Drainage Area	<u>0.27</u>	Yield (cfs/mi <sup>2</sup> )	<u>0.0065</u>
Q <sub>7-10</sub> Flow (cfs)	<u>0.00175</u>	Q <sub>7-10</sub> Basis	<u>USGS – StreamStats</u>
Elevation (ft)	<u>1304</u>	Slope (ft/ft)	<u>----</u>
Watershed No.	<u>20-A</u>	Chapter 93 Class.	<u>TSF</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>7.0</u>	Default	<u></u>
Temperature (°F)	<u>68</u>	Default	<u></u>
Hardness (mg/L)	<u></u>		<u></u>
Other:	<u></u>		<u></u>
Nearest Downstream Public Water Supply Intake	<u>Beaver Falls Municipal Authority</u>		
PWS Waters	<u>Beaver River</u>	Flow at Intake (cfs)	<u>561</u>
PWS RMI	<u>3.5</u>	Distance from Outfall (mi)	<u>52.4</u>

Changes Since Last Permit Issuance: N/A – This is a new discharge (Planning was approved on June 5, 2023).

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 the Norweco Singlair system.

The Norweco Singlair system 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 an 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.

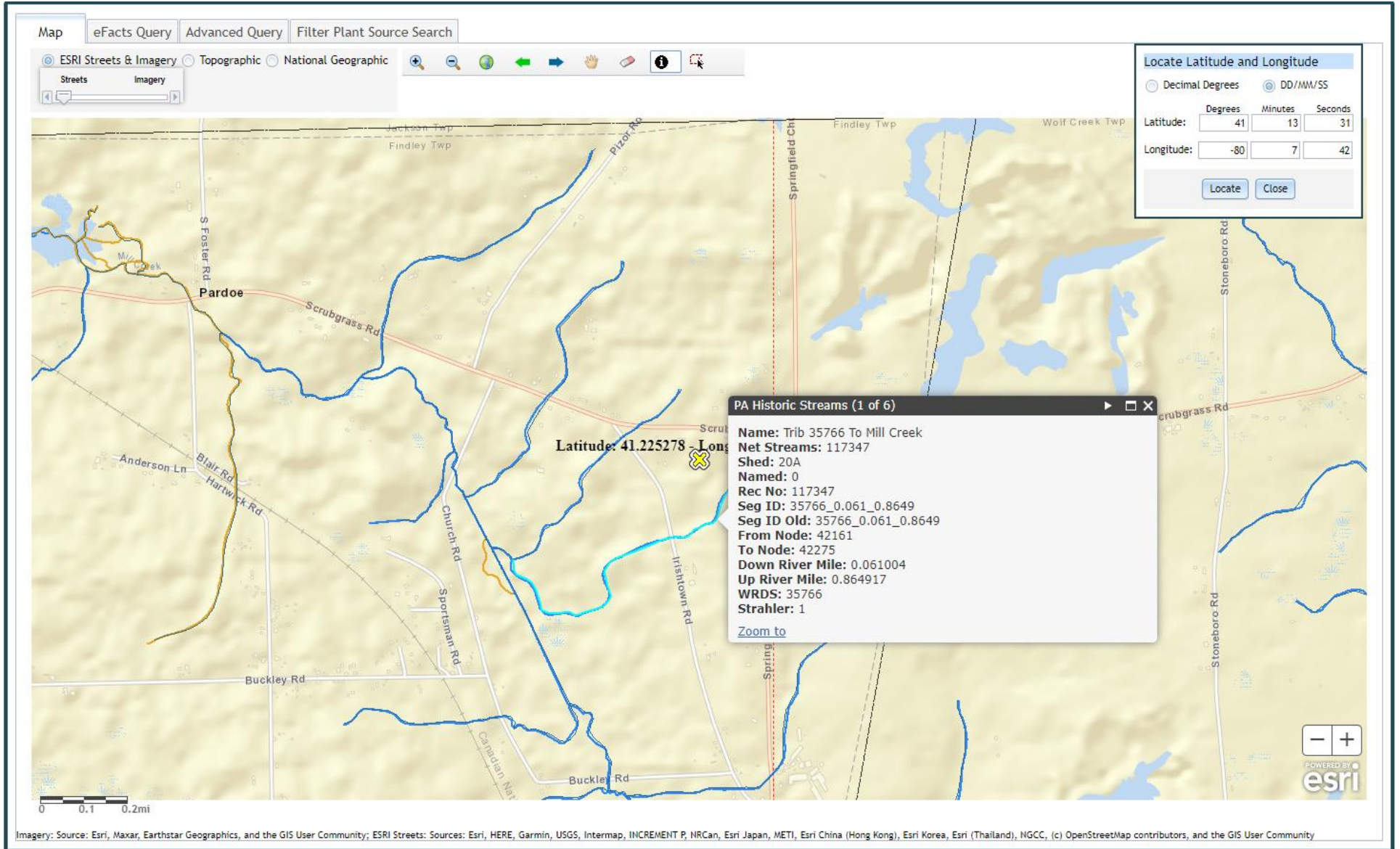
**Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.**

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <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 BOD5, 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 and Receiving Stream Data





Attachment 2  
Google Earth – Site Imagery

