pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northwest Regional Office
CLEAN WATER PROGRAM

Application Type	**New**	Application No.	**PA0295302**
Wastewater Type	**Sewage**	APS ID	**1095760**
Facility Type	**SRSTP**	Authorization ID	**1452472**

NPDES PERMIT FACT SHEET
INDIVIDUAL SFTF/SRSTP

Applicant, Facility and Project Information

Applicant Name	**Gary Mueller**	Facility Name	**Gary Mueller SRSTP**
Applicant Address	395 Vernon Road	Facility Address	395 Vernon Road
	Greenville, PA 16125-9256		Greenville, PA 16125-9256
Applicant Contact	Gary Mueller	Facility Contact	
Applicant Phone	(724) 316-3913	Facility Phone	
Client ID	379561	Site ID	864673
SIC Code	8800	Municipality	West Salem Township
SIC Description	Private Households	County	Mercer
Date Application Received	August 16, 2023	WQM Required	Yes – Application Received
Date Application Accepted		WQM App. No.	4323414

Project Description: This is an application for a new Single Residence Sewage Treatment Plant (SRSTP) which will serve an existing dwelling.

Summary of Review

This is a new discharge which will serve an existing 4-bedroom home and replace an existing malfunctioning on-lot disposal system.

Act 14 – Notification was submitted and received.

Treatment of this facility will consist of (WQM Permit No. 4323414): A Norweco Singulair Bio-Kinetic Model 960-500/600 GPD Wastewater Treatment System with a Norweco Singulair Hydro-Kinetic Bio-Film Reactor, a 1,300-gallon septic tank which 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 and a 500 gallon pump chamber.

There are no open violations in WMS for the subject Client ID (379561) as of 9/11/2023. *9/15/2023 CWY*

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	September 11, 2023
X		Chad W. Yurisic Chad W. Yurisic, P.E. / Environmental Engineer Manager	9/15/2023

Discharge and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	.0005
Latitude	41º 24' 11.78"	Longitude	-80º 25' 51.68"
Quad Name	Greenville West	Quad Code	41080D4
Wastewater Description:	Sewage Effluent		
Receiving Waters	Unnamed Tributary of Big Run (WWF)	Stream Code	36122
NHD Com ID	130027456	RMI	1.4400
Drainage Area	0.97	Yield (cfs/mi^2)	0.00816
Q_{7-10} Flow (cfs)	0.00792	Q_{7-10} Basis	USGS - StreamStats
Elevation (ft)	1164	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)	7.0	Default
Temperature (°F)	75	Default - WWF
Hardness (mg/L)		
Other:		

Nearest Downstream Public Water Supply Intake		Reynolds Water Company	
PWS Waters	Big Run & Shenango River	Flow at Intake (cfs)	--
PWS RMI	0.15	Distance from Outfall (mi)	5.95

Changes Since Last Permit Issuance: N/A – This is a new discharge (Planning was approved on July 14, 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 Singulair Treatment System.

The Norweco Singulair Treatment 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.

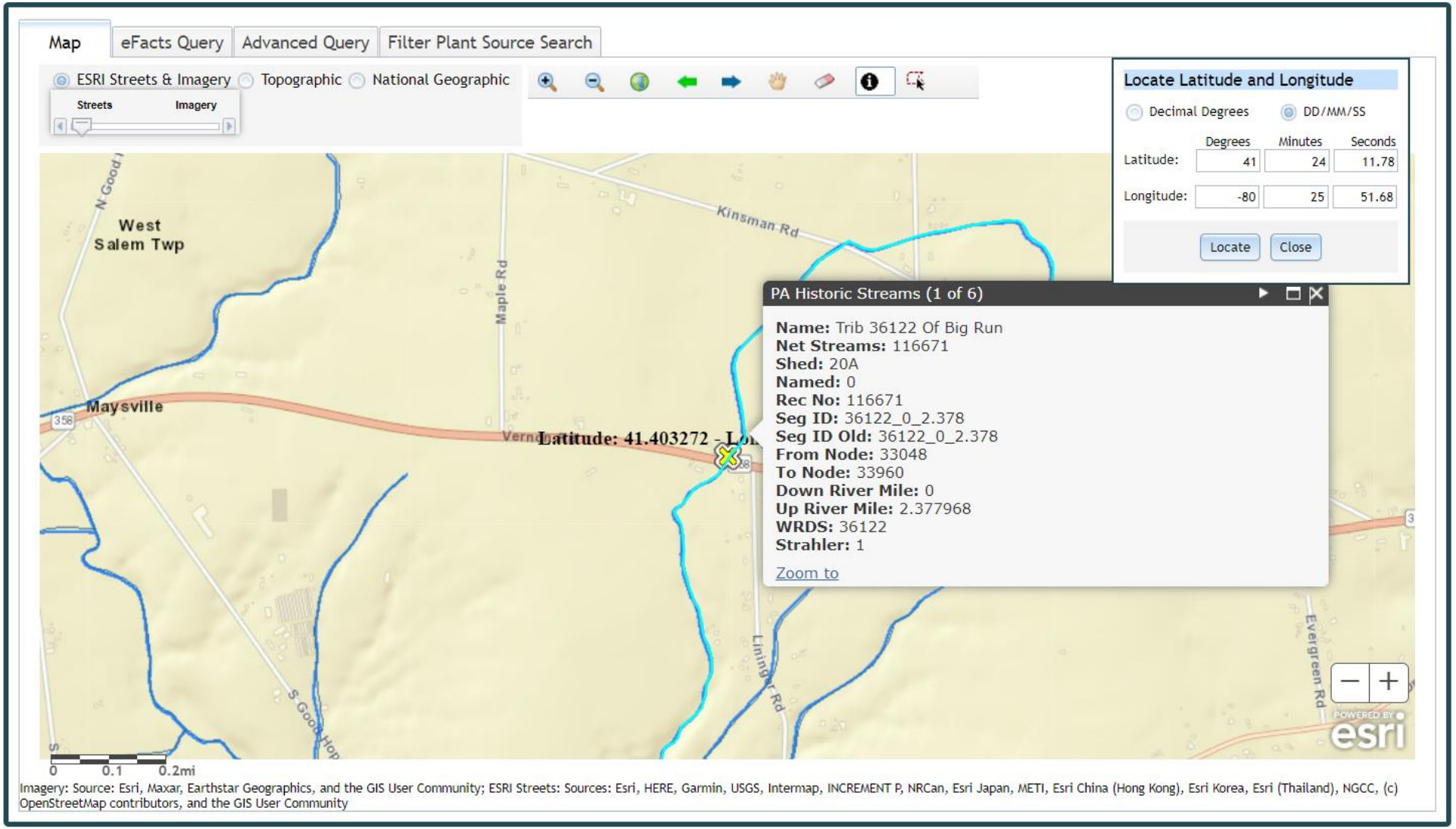
Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (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	6.0 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