

Northwest Regional Office CLEAN WATER PROGRAM

Application Type
Wastewater Type
Facility Type
Sewage
SRSTP

NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

 Application No.
 PA0293202

 APS ID
 1087965

 Authorization ID
 1438759

Applicant Name	Stephen Caligiuri	Facility Name	Stephen Caligiuri SRSTP
Applicant Address	8 Sunnybrook Drive	Facility Address	8 Sunnybrook Drive
	New Castle, PA 16105-1834		New Castle, PA 16105-1834
Applicant Contact	Stephen Caligiuri	Facility Contact	-
Applicant Phone	(724) 487-3704	Facility Phone	-
Client ID	377079	Site ID	863176
SIC Code	8800	Municipality	Neshannock Township
SIC Description	Private Households	County	Lawrence
Date Application Rece	ived April 25, 2023	WQM Required	Yes
Date Application Acce	pted	WQM App. No.	3723403

Summary of Review

This is a new discharge for an existing 3-bedroom home to replace an existing malfunctioning on-lot septic system.

Act 14 - Proof of notification was submitted and received.

The proposed treatment will consist of (WQM Permit No. 3723403): A Norweco Singulair Bio-Kinetic Model 960 500/600 GPD Wastewater Treatment System, a Norweco Singulair Hydro-Kinetic Bio-Film Reactor, 2 separate treatment tanks consisting of a 1,300 gallon tank that houses a 450 gallon pretreatment chamber, an extended aeration chamber with a Norweco Singulair Model 206C Aerator, and a final chamber with a bio-kinetic system and a bio-static sludge return. The second tank houses a hydro-kinetic bio-film reactor with an in-line Norweco Model AT 1500 Disinfection Unit, which will provide final disinfection of the effluent.

There are no open violations in WMS for the subject Client ID (377079) as of 05/10/2023. 5/12/2023 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
Х		Dustin Hargenrater Dustin Hargenrater / Civil Engineer Trainee	May 10, 2023
Х		Chad W. Yurisic Chad W. Yurisic, P.E. / Environmental Engineer Manager	5/12/2023

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° 1' 49.57"	Longitude80° 22' 18.49"					
Quad Name New Castle North	Quad Code 41080A3					
Wastewater Description: Sewage Effluent						
Unnamed Tributary of Shenange Receiving Waters River (WWF)	o Stream Code 35846					
NHD Com ID 130034652	RMI 0.3800					
Drainage Area .0434	Yield (cfs/mi²) .1					
Q ₇₋₁₀ Flow (cfs) .00434	Q ₇₋₁₀ Basis Default					
Elevation (ft) 950	Slope (ft/ft)					
Watershed No. 20-A	Chapter 93 Class. WWF					
Existing Use	Existing Lice 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)	Default					
Temperature (°F)	Default - WWF					
Hardness (mg/L) 100	Default					
Other:						
Nearest Downstream Public Water Supply Intake	Pennsylvania American Water Company – New Castle					
PWS Waters Shenango River	Flow at Intake (cfs) 16.2					
PWS RMI <u>5.1</u>	Distance from Outfall (mi) 2.34					

Changes Since Last Permit Issuance: N/A - This is a new discharge (Planning was approved on April 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 System.

The Norweco Singulair 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.

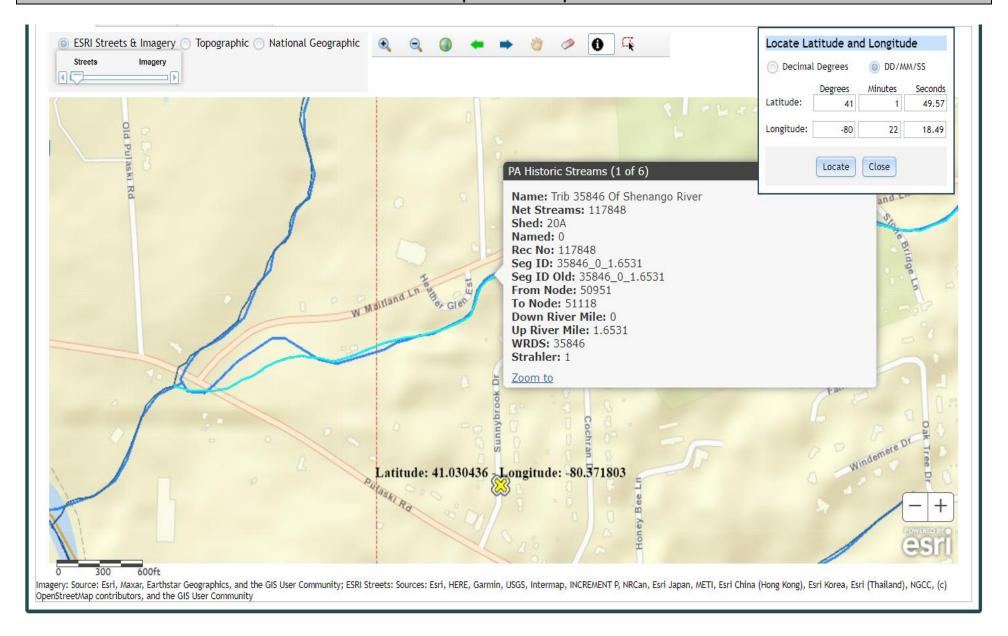
Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

	Effluent Limitations					Monitoring Requirements		
Parameter	Mass Units (lbs/day) (1)		Concentrations (mg/L)			Minimum ⁽²⁾	Required	
Farameter	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
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: <u>Outfall 001, after disinfection.</u>

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 Map



Attachment 2 Google Earth Imagery

