

# Northwest Regional Office CLEAN WATER PROGRAM

Application Type
Wastewater Type
Facility Type
Sewage
SRSTP

# NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

Application No. PA0293024

APS ID 1084757

Authorization ID 1433145

Applicant Name	Robe	rt C Thompson	Facility Name	Robert Thompson SRSTP
Applicant Address	1267	Rutledge Road	Facility Address	1267 Rutledge Road
	Trans	fer, PA 16154-2225		Transfer, PA 16154-2225
Applicant Contact	Robe	rt Thompson	Facility Contact	
Applicant Phone	(724)	854-9190	Facility Phone	
Applicant Email	dktho	mpson1267@gmail.com		
Client ID	37632	26	Site ID	861344
SIC Code	8800		Municipality	Pymatuning Township
SIC Description	Privat	te Households	County	Mercer
Date Application Rece	eived	March 13, 2023	WQM Required	Yes
Date Application Accepted April 4, 2023		April 4, 2023	WQM App. No.	4323406

#### **Summary of Review**

This is a new discharge for an existing 3 bedroom dwelling with proposed construction of a single residence sewage treatment plant to replace a malfunctioning on-lot sewage disposal system.

Proposed treatment will consist of (WQM Permit No. 4323406): A Singulair Bio-Kinetic Model 960-500 aerobic tank followed by a Hydro-Kinetic Bio-Film Reactor (HKBFR) with a Model AT 1500 UV disinfection system. The effluent is then discharged to an UNT to Brush Run (WWF), at a rate of 400 gpd. The Singulair 960-500/600 has a total capacity of 1300 gallons and is rated for 600 gpd. The HKBFR has capacity of 1055 gallons and is designed to treat up to 800 gpd.

Act 14 - Proof of Notification was submitted and received.

SPECTIAL CONDITIONS: NONE

The EPA waiver is in effect.

There are NO open violations in WMS for the subject Client ID (376326) as of April 4, 2023 4/5/2023 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
Х		Aeshah Shameseldin Aeshah Shameseldin / Civil Engineer Trainee	April 4, 2023
X		Chad W. Yurisic Chad W. Yurisic, P.E. / Environmental Engineer Manager	4/5/2023

Discharge and Stream Data – 2 - Receiving Waters and PWS

ischarge, Receiving W	laters and Water Supply Inform	nation	
Outfall No. 001		Design Flow (MGD)	.0004
Latitude 41º 19' 14.00"		Longitude	-80° 24' 53.00"
Quad Name Sharps	sville	Quad Code	41080C4
Wastewater Descriptio	on: Sewage Effluent		
	Innamed Tributary to Brush Run WWF)	Stream Code	36036
NHD Com ID 1:	30034301	 RMI	1.0900
Drainage Area 0.	0.0131	Yield (cfs/mi²)	0.1
	0.00131	Q <sub>7-10</sub> Basis	Default
Elevation (ft)	093	Slope (ft/ft)	
Watershed No. 2	0-A	Chapter 93 Class.	WWF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	_Attaining Use(s)		
Cause(s) of Impairmen	nt <u></u>		
Source(s) of Impairmen	nt		
TMDL Status		Name	
Background/Ambient D	)ata	Data Source	
pH (SU)	7	Default	
Temperature (°F)	25	Default	
Hardness (mg/L)	100	Default	
Other:			
Nearest Downstream F	Public Water Supply Intake	Sharpsville Borough Water Co	ompany
	enango River	Flow at Intake (cfs)	94.3
PWS RMI 33.2	•	Distance from Outfall (mi)	

Changes Since Last Permit Issuance: N/A -This is a proposed discharge (Planning was approved on February 2, 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 a Singulair Bio-Kinetic Model 960-500 aerobic tank followed by a Hydro-Kinetic Bio-Film Reactor.

The Singulair Bio-Kinetic Model 960-500 aerobic tank is reportedly capable of meeting BOD5 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.

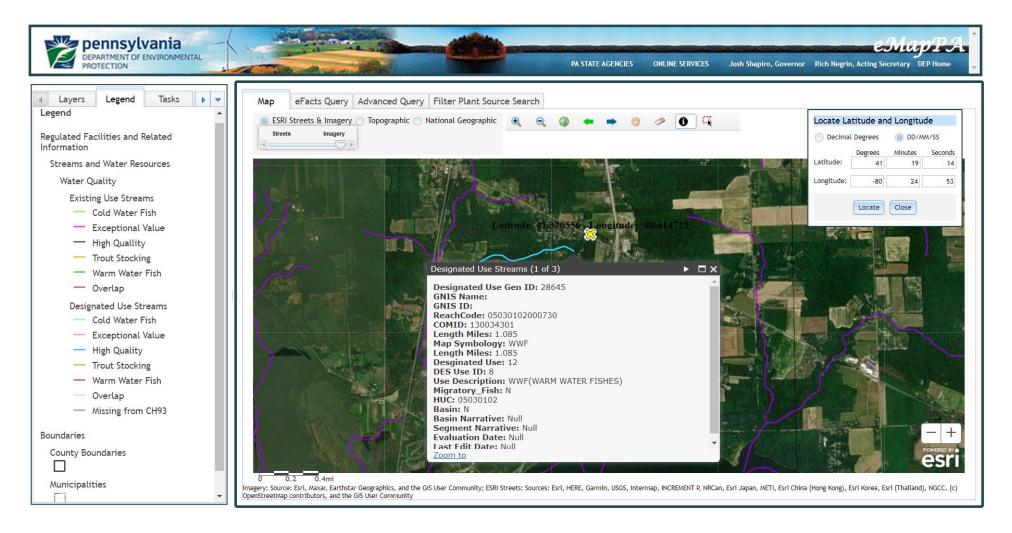
#### Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

		Effluent Limitations				Monitoring Requirements		
Parameter	Mass Units	(lbs/day) (1)		Concentrat	tions (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	20.0	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	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**



# **Drainage Area Location – StreamStats with Aerial Imagery**

# StreamStats Report

Region ID:

Workspace ID:

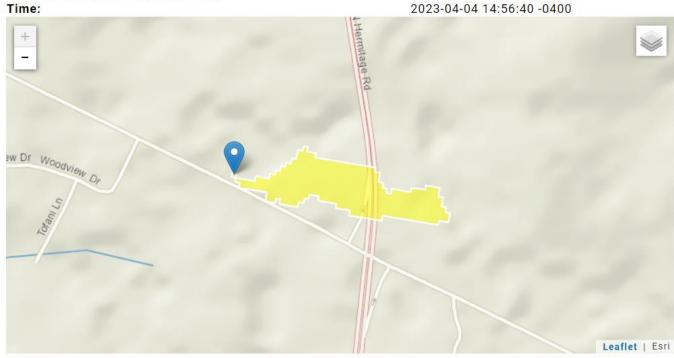
Clicked Point (Latitude, Longitude):

PA

PA20230404185610362000

41.32056, -80.41477

2023-04-04 14:56:40 -0400



Collapse All

# > Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.0131	square miles