

 Application Type
 New

 Wastewater Type
 Sewage

 Facility Type
 SRSTP

NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

 Application No.
 PA0284891

 APS ID
 1064190

 Authorization ID
 1397569

Applicant, Facility and Project Information

Applicant Name	John Stefanik	Facility Name	Stefanik Properties SRSTP
Applicant Address	26 Janette Circle	Facility Address	1035 Hickory Court
	Irwin, PA 15642-8922		Jeannette, PA 15644-9510
Applicant Contact	John Stefanik	Facility Contact	John Stefanik
Applicant Phone	(412) 302-5456	Facility Phone	(412) 302-5456
Client ID	370244	Site ID	857554
SIC Code	4952	Municipality	Penn Township
SIC Description	Sewerage Systems	County	Westmoreland
Date Application Receiv	vedMay 23, 2022	WQM Required	Yes
Date Application Accept	tedMay 27, 2022	WQM App. No.	6522401
Project Description	Application of a new NPDES Permit	for discharge of treate	ed sewer

Summary of Review

The applicant is proposed to construct a 0.0005 MGD Single Residence Sewage Treatment Plant (SRSTP).

The Discharge is to UNT 37341 to Brush Creek, which is classified as Trout Stock Fishes (TSF), located in watershed 19A

Act 537 was approved for this project on May 5, 2022

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.

$\Omega \ell o$	Approve	Deny Signatures	Date
$\Omega \ell o$	х	Jordan T Coldemite	
Ne KO		Jordan Coldsmith / Environmental Engineering Specialist	June 6, 2022
	х	Christopher Kriley P.E. / Environmental Program Manager	June 10, 2022

Discharge and Stream Data - 2 - Receiving Waters and PWS

Discharge, Receiving Wate	rs and Water Supply Inforr	nation	
			0.0005
Outfall No. 001	05"	Design Flow (MGD)	
Latitude <u>40º 20' 49.</u>		Longitude	-79º 35' 3.91"
Quad Name Greensburg		Quad Code	40079C5
Wastewater Description:	Sewage Effluent		
Unna	med Tributary to Brush Cree	ek	
Receiving Waters (TSF		Stream Code	37341
NHD Com ID 9940	7810	RMI	0.1200
Drainage Area 0.25		Yield (cfs/mi ²)	0.00616
Q ₇₋₁₀ Flow (cfs) 0.001	154	Q ₇₋₁₀ Basis	USGS StreamStat
Elevation (ft) 1273	3	Slope (ft/ft)	
Watershed No. 19-A		Chapter 93 Class.	TSF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment	METALS, PH, ALUMINU	M, IRON, MANGANESE, PH LO	DW.
Source(s) of Impairment	Acid Mine Drainage (AM		
TMDL Status	Final, Final	Brush Creek	(Westmoreland),Turtle Creek
Background/Ambient Data	l	Data Source	
pH (SU)			
Temperature (°F)			
Hardness (mg/L)			
Other:			
Nearest Downstream Publ	ic Water Supply Intake	PA AMER WATER CO-PITTS	BURGH
	gahela River (WWF)	Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	32.3

Changes Since Last Permit Issuance: N/A, New Permit Issuance

Other Comments: None+

Treatment Facility Summary Treatment Facility Name: Stefanik Properties SRSTP WQM Permit No. **Issuance Date** 6522401 Under Department Review Degree of Avg Annual Process Type Flow (MGD) Waste Type Treatment Disinfection Aerobic Tank UV 0.0005 Sewage Tertiary **Hydraulic Capacity Organic Capacity Biosolids** (MGD) (lbs/day) Load Status **Biosolids Treatment Use/Disposal** Other WWTP 0.0005 Not Overloaded

Changes Since Last Permit Issuance: N/A. New Permit Issuance

Other Comments: WQM permit No. 6522401 currently under department review; approves construction of a STP with a rated annual average design flow of 0.0005 MGD. The treatment process consists of:

Singulair Bio-Kinetic Model 960-500 Treatment Tank Hydro-kinetic Bio-film Reactor AT 1500 UV Disinfection System

Act 537 was approved for this project on May 5, 2022

Development of Endent Limitations				
Outfall No.	001	Design Flow (MGD)	0.0005	
Latitude	40° 20' 49.05'	Longitude	-79º 35' 3.91"	
Wastewater	Description: Sewage Effluent			

Technology-Based Limitations

The following effluent limitations and monitoring requirements, at a minimum, will be established in all new and renewed SFTF permits based on the requirements of DEP's "Standard Operating Procedure (SOP) for Clean Water Program New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Application" (SOP No. BCW-PMT-003, Version 1.8, Final, November 9, 2012, Revised May 17, 2019).

Parameter	Avg	ΙΜΑΧ	Sample Type	Frequency: SFTFs	Frequency: SRSTPs
			Estimate (SRSTPs)		
Flow (GPD)	Report	XXX	Measured (SFTFs)	1/month	1/year
BOD5 (mg/L)	10	20	Grab	1/month	1/year
TSS (mg/L)	10	20	Grab	1/month	1/year
	6.0 S.U.				
pH*	Inst. Min.	9.0 S.U.	Grab	1/month	1/year
·	Report for SRSTPs; Use TRC Spreadsheet to determine WQBELs				
TRC (mg/L)	or 0.02 mg/L for SFTFs		Grab	1/month	1/year
Fecal Coliform	200 Geometric	200 Geometric Mean (SFTFs) /			
(No./100 ml)	Average ((SRSTPs)	Grab	1/month	1/year

* Technology-Based effluent limits for pH will be imposed based upon Federal Regulation 133.102(c) and State Regulation 95.2(1).

TMDL

This facility discharges to the Brush Creek and Turtle Creek Watersheds. These Watersheds have TMDLs that were finalized on January 28, 2005 and June 29, 2009 respectively. Both are impaired by metals and pH. Abandoned mine drainage is a source of such impairment. The sewage discharge from the Stefanik SRSTP is not expected to contribute to the stream impairment. No WLAs have been developed for this sewage discharge, and they are not expected to contribute to the stream impairment for these pollutants. No monitoring requirements for Total Iron, Total Manganese and Total Aluminum will be imposed on this facility.

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 (Ibs/day) ⁽¹⁾			Concentrations (mg/L)			Minimum ⁽²⁾	Required
Falameter	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	1/year	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)	ххх	XXX	XXX	200.0	xxx	ххх	1/year	Grab

Compliance Sampling Location: Outfall 001

Other Comments: Ultraviolet (UV) disinfection is used, and therefore, Total Residual Chlorine (TRC) limits are not applicable. Current policy does not require SRSTPs to monitor for UV Intensity.

SRSTPs are not required to monitor for Total Nitrogen and Total Phosphorus in new and reissued permits.

The receiving stream is not impaired for nutrients.

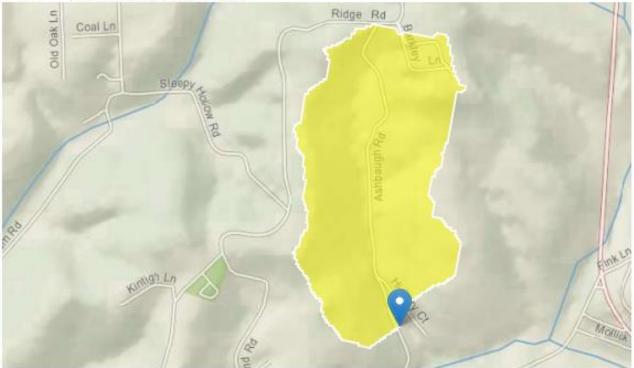
StreamStats Report

 Region ID:
 PA

 Workspace ID:
 PA20220608170849580000

 Clicked Point (Latitude, Longitude):
 40.34689, -79.58451

 Time:
 2022-06-08 13:09:09 -0400



Collapse All

Basin Characteri	stics		
Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.25	square miles
ELEV	Mean Basin Elevation	1273	feet

Low-Flow Statistics

Low-Flow Statistics Parameters [Low Flow Region 4]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.25	square miles	2.26	1400
ELEV	Mean Basin Elevation	1273	feet	1050	2580

Low-Flow Statistics Disclaimers [Low Flow Region 4]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

Low-Flow Statistics Flow Report [Low Flow Region 4]

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.00608	ft^3/s
30 Day 2 Year Low Flow	0.0126	ft^3/s
7 Day 10 Year Low Flow	0.00154	ft^3/s
30 Day 10 Year Low Flow	0.00367	ft^3/s
90 Day 10 Year Low Flow	0.00814	ft^3/s

Low-Flow Statistics Citations

Stuckey, M.H.,2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (http://pubs.usgs.gov/sir/2006/5130/)

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