

Application Type New  
Wastewater Type Sewage  
Facility Type SRSTP

## NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

Application No. PA0295949  
APS ID 1118496  
Authorization ID 1493459

### Applicant, Facility and Project Information

Applicant Name <u>Vicki Kunkle</u>	Facility Name <u>Vicki Kunkle SRSTP</u>
Applicant Address <u>317 Bicker Road</u>	Facility Address <u>317 Bicker Road</u>
<u>Cabot, PA 16023-2505</u>	<u>Cabot, PA 16023-2505</u>
Applicant Contact <u>Vicki Kunkle</u>	Facility Contact _____
Applicant Phone <u>(724) 816-7724</u>	Facility Phone _____
Client ID <u>387243</u>	Site ID <u>868131</u>
SIC Code <u>8800</u>	Municipality <u>Winfield Township</u>
SIC Description <u>Private Households</u>	County <u>Butler</u>
Date Application Received <u>July 9, 2024</u>	WQM Required <u>Yes – Application Received.</u>
Date Application Accepted _____	WQM App. No. <u>1024410</u>

Project Description This is an application for a new Single Residence Sewage Treatment Plant (SRSTP) which will serve an existing 2-bedroom residential dwelling.

### Summary of Review

This is a new discharge which will serve an existing 2-bedroom residential dwelling and replace an existing malfunctioning on-lot disposal system.

Act 14 – Notifications were submitted and received.

Treatment of the proposed facility will consist of (WQM Permit No. 1024410): A 1,250-gallon dual compartment concrete septic tank which was recently installed to serve as a holding tank until the stream discharge, when approved a Zabel A300 effluent filter will be installed at the outlet end of the septic tank. From the holding tank the sewage will flow to a new Premier Tech ECC-530-C-P-UV Coco filter with integrated pump and DiUV unit preinstalled by the manufacturer.

There are no open violations in WMS for the subject Client ID (387243) as of 8/15/24.

#### 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 (General)	August 14, 2024
		Vacant / Environmental Engineer Manager	Okay to Draft JCD 8/19/2024

Discharge and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	.0004
Latitude	40° 45' 13.53"	Longitude	-79° 43' 51.35"
Quad Name	Worthington	Quad Code	40079G6
Wastewater Description: Sewage Effluent			
Receiving Waters	Unnamed Tributary of Little Buffalo Creek (HQ-TSF)	Stream Code	42583
NHD Com ID	134460277	RMI	0.2900
Drainage Area	0.22	Yield (cfs/mi²)	0.006
Q <sub>7-10</sub> Flow (cfs)	0.00132	Q <sub>7-10</sub> Basis	USGS - StreamStats
Elevation (ft)	1,260	Slope (ft/ft)	---
Watershed No.	18-F	Chapter 93 Class.	HQ-TSF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	SILTATION, SILTATION, SILTATION, TURBIDITY, TURBIDITY, TURBIDITY		
Source(s) of Impairment	AGRICULTURE, AGRICULTURE, AGRICULTURE, AGRICULTURE, AGRICULTURE, AGRICULTURE		
TMDL Status		Name	
Background/Ambient Data		Data Source	
pH (SU)	7.0	Default	
Temperature (°F)	68	Default	
Hardness (mg/L)	100	Default	
Other:			
Nearest Downstream Public Water Supply Intake	Harrison Township Water Authority		
PWS Waters	Allegheny River	Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	16.8

Changes Since Last Permit Issuance: None – This is a new discharge (Planning was approved on June 20, 2024)

Other Comments: This facility was designed where applicable in accordance with the SFTF Manual, however this facility is not eligible for coverage under the PAG-04 General Permit due to the discharge being to HQ waters.

The Coco Filter treatment system is reportedly capable of meeting CBOD5 average of 10 mg/l and TSS averages of 10 mg/l.

In accordance with the SOP, no water quality monitoring 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.

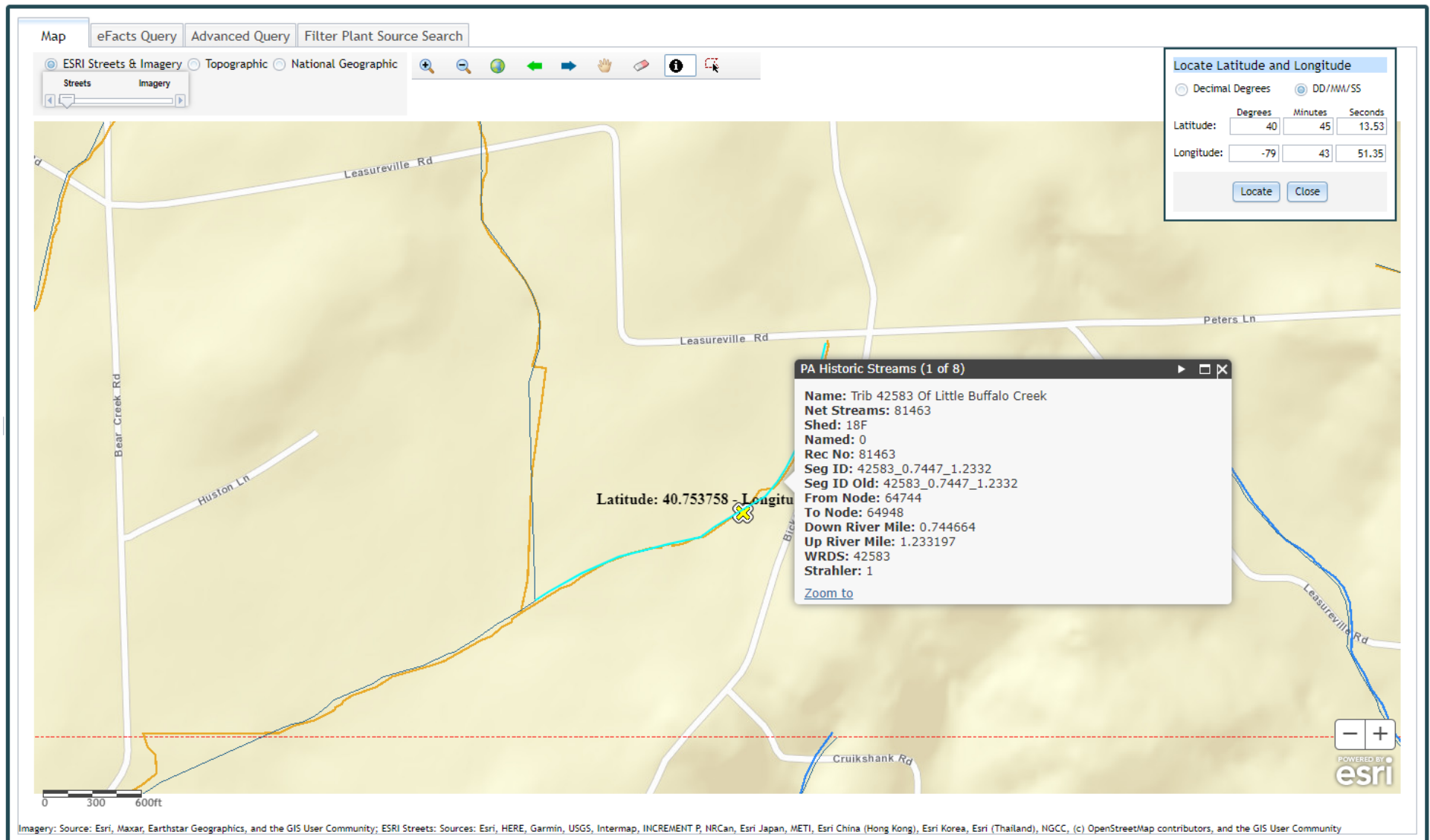
**Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.**

							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
CBOD5	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 of BOD5, Total Suspended Solids, and Fecal Coliforms 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

