

Application Type New  
Wastewater Type Sewage  
Facility Type SRSTP

## NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

Application No. PA0295973  
APS ID 1119086  
Authorization ID 1494492

### Applicant, Facility and Project Information

Applicant Name <u>William Doane</u>	Facility Name <u>William Doane SRSTP</u>
Applicant Address <u>250 Pine Road</u>	Facility Address <u>885 Sky Gate Avenue</u>
<u>Pittsburgh, PA 15237</u>	<u>Tionesta, PA 16353</u>
Applicant Contact <u>William Doane</u>	Facility Contact _____
Applicant Phone <u>(412) 508-0863</u>	_____
Applicant Email <u>doane.w@comcast.net</u>	Facility Phone _____
Client ID <u>387486</u>	Site ID <u>872678</u>
SIC Code <u>8800</u>	Municipality <u>Green Township</u>
SIC Description <u>Private Households</u>	County <u>Forest</u>
Date Application Received <u>July 24, 2024</u>	WQM Required <u>Yes – Application Received</u>
Date Application Accepted <u>August 13, 2024</u>	WQM App. No. <u>2724403</u>
Project Description <u>Installation of a new Single Residence Sewage Treatment Plant</u>	

### Summary of Review

This is a new discharge for an existing 4 bedrooms residential dwelling with proposed construction of a single residence sewage treatment plant to replace a malfunctioning on-lot sewage system. The average daily flow is projected to be 500 GPD.

Proposed treatment facilities will consist of (WQM Permit No. 2724403): A new NSF approved Premier Tech EC7-750-P-P Pack coco filter unit with an integrated effluent filter, DiUV disinfection unit and pump preinstalled by the manufacturer. The point of discharge will be on the owner's property into a drainage channel to UNT to Furnace Run (HQ-CWF).

Act 14 – Proof of Notification was submitted and received.

Act 537 Sewage Facilities Planning Module Component 3s was approved by the department on July 22, 2024.

SPECIAL CONDITIONS: NONE

The EPA waiver is in effect.

There are NO open violations in WMS for the subject Client ID (387486) as of August 13, 2024.

#### 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		Aeshah Shameseldin Aeshah Shameseldin / Civil Engineer	August 13, 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)	.0005
Latitude	41° 32' 18.18"	Longitude	-79° 22' 41.81"
Quad Name	West Hickory	Quad Code	41079E4
Wastewater Description: Sewage Effluent			
Receiving Waters	Unnamed Tributary to Furnace Run (HQ-CWF)	Stream Code	55624
NHD Com ID	100474043	RMI	0.4200
Drainage Area	0.11 sq. mi.	Yield (cfs/mi²)	0.1
Q <sub>7-10</sub> Flow (cfs)	0.011	Q <sub>7-10</sub> Basis	Default
Elevation (ft)	1554	Slope (ft/ft)	---
Watershed No.	16-F	Chapter 93 Class.	HQ-CWF
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)	68	Default	
Hardness (mg/L)	100	Default	
Other:			
Nearest Downstream Public Water Supply Intake	Aqua Pennsylvania, Inc. - Emlenton		
PWS Waters	Allegheny River	Flow at Intake (cfs)	1,376
PWS RMI	90.0	Distance from Outfall (mi)	---

Changes Since Last Permit Issuance: N/A -This is a proposed discharge (Planning was approved on July 22, 2024).

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 Premier Tech EC7-750-P-P Pack coco filter unit and the discharge into a High-Quality Watershed.

The Premier Tech EC7-750-P-P Pack coco filter unit 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) <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	1/month	Grab
CBOD5	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 CBOD5, 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 and the monitoring frequency has been established as “1/month” due to special protection watershed designation (High Quality – HQ).

## Outfall Location - eMap with Aerial Imagery

The screenshot displays the Pennsylvania eMapPA web application interface. The header features the Pennsylvania Department of Environmental Protection logo and navigation links for PA State Agencies, Online Services, and state officials. The main map area shows aerial imagery with stream data overlays. A legend on the left categorizes streams by water quality (Cold Water Fish, Exceptional Value, High Quality, Trout Stocking, Warm Water Fish, Overlap) and boundaries (County, Municipalities). A map toolbar at the top right includes navigation and search tools. A data popup window titled 'Designated Use Streams (1 of 3)' provides detailed information for a specific stream segment.

**Legend**

- Regulated Facilities and Related Information
- Streams and Water Resources
  - Water Quality
    - Existing Use Streams
      - Cold Water Fish
      - Exceptional Value
      - High Quality
      - Trout Stocking
      - Warm Water Fish
      - Overlap
    - Designated Use Streams
      - Cold Water Fish
      - Exceptional Value
      - High Quality
      - Trout Stocking
      - Warm Water Fish
      - Overlap
      - Missing from CH93
  - Boundaries
    - County Boundaries
    - Municipalities

**Map** | eFacts Query | Advanced Query | Filter Plant Source Search

ESRI Streets & Imagery | Topographic | National Geographic

Streets | Imagery

**Locate Latitude and Longitude**

☐ Decimal Degrees ☒ DD/MM/SS

Latitude: Degrees: 41 Minutes: 32 Seconds: 18.18

Longitude: -79 22 41.81

Locate Close

**Designated Use Streams (1 of 3)**

Designated Use Gen ID: 82197  
GNIS Name:  
GNIS ID:  
ReachCode: 05010003002736  
COMID: 100474043  
Length Miles: 0.704  
Map Symbology: HQ  
Length Miles: 0.704  
Designated Use: 5  
DES Use ID: 4  
Use Description: HQ-CWF(HIGH QUALITY-COLD WATER FISHES)  
Migratory\_Fish: N  
HUC: 05010003  
Basin: N  
Basin Narrative: Null  
Segment Narrative: Null  
Evaluation Date: Null  
Last Edit Date: Null  
[Zoom to](#)

Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community; ESRI Streets: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

Drainage Area Location – StreamStats with Aerial Imagery

StreamStats Report

Region ID:

Workspace ID:

Clicked Point (Latitude, Longitude):

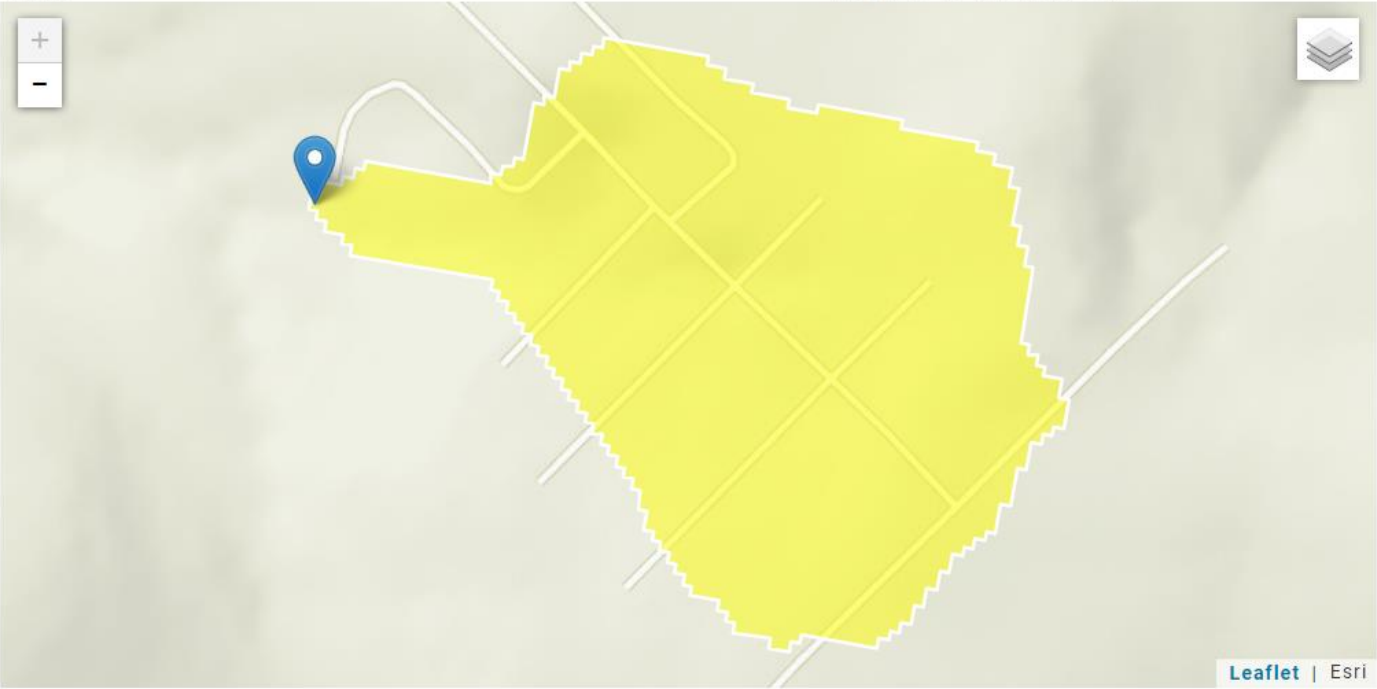
Time:

PA

PA20240813190225935000

41.53833, -79.37791

2024-08-13 15:02:49 -0400



Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.11	square miles