

Application Type New
Wastewater Type Sewage
Facility Type SRSTP

**NPDES PERMIT FACT SHEET
INDIVIDUAL SFTF/SRSTP**

Application No. PA0295272
APS ID 1095506
Authorization ID 1452015

Applicant, Facility and Project Information

Applicant Name	<u>Michael K Anderson</u>	Facility Name	<u>Michael Anderson SRSTP</u>
Applicant Address	<u>213 Deerfield Lane</u> <u>Tidioute, PA 16351-6625</u>	Facility Address	<u>213 Deerfield Lane</u> <u>Tidioute, PA 16351-6625</u>
Applicant Contact	<u>Michael Anderson</u>	Facility Contact	<u></u>
Applicant Phone	<u>(814) 706-4078</u>	Facility Phone	<u></u>
Applicant Email	<u>mikeandersonannie@gmail.com</u>		<u></u>
Client ID	<u>379483</u>	Site ID	<u>865133</u>
SIC Code	<u>8800</u>	Municipality	<u>Deerfield Township</u>
SIC Description	<u>Private Households</u>	County	<u>Warren</u>
Date Application Received	<u>August 8, 2023</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>September 11, 2023</u>	WQM App. No.	<u>6223402</u>
Project Description	<u>Installation of a Single Residence Sewage Treatment Plant</u>		

Summary of Review

This is a new discharge for an existing 3 bedrooms dwelling with proposed construction of a single residence sewage treatment plant. The daily sewage flow is projected to be 400 GPD.

Proposed treatment will consist of (WQM Permit No. 6223402): 1,000-gallon concrete dual compartment septic tank with a Zabel A300 effluent filter and alarm at the outlet end of the tank. The effluent will then flow to Premier Tech EC7-500-C-P coco filter unit with an integrated DiUV unit and pump preinstalled by the manufacturer. The treated effluent will then discharge into Allegheny River.

Act 14 – Proof of Notification was submitted and received.

Act 537 – Sewage Facilities Planning Module Component 3s was approved by the Department on August 7, 2023

SPECIAL CONDITIONS: NONE

The EPA waiver is in effect.

There are NO open violations in WMS for the subject Client ID (379483) as of September 12, 2023 [9/15/2023 CWY](#)

Approve	Deny	Signatures	Date
X		Aeshah Shameseldin Aeshah Shameseldin / Civil Engineer Trainee	September 12, 2023
X		Chad W. Yurisc Chad W. Yurisc, P.E. / Environmental Engineer Manager	9/15/2023

Summary of Review

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.

Discharge and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.0004</u>
Latitude	<u>41° 41' 12.71"</u>	Longitude	<u>-79° 22' 1.52"</u>
Quad Name	<u>Cobham</u>	Quad Code	<u>41079F3</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Allegheny River (WWF)</u>	Stream Code	<u>42122</u>
NHD Com ID	<u>100470211</u>	RMI	<u>170.17 (Approximately)</u>
Drainage Area	<u>---</u>	Yield (cfs/mi ²)	<u>---</u>
Q ₇₋₁₀ Flow (cfs)	<u>0</u>	Q ₇₋₁₀ Basis	<u>---</u>
Elevation (ft)	<u>1103</u>	Slope (ft/ft)	<u>---</u>
Watershed No.	<u>16-F</u>	Chapter 93 Class.	<u>WWF</u>
Existing Use	<u>---</u>	Existing Use Qualifier	<u>---</u>
Exceptions to Use	<u>---</u>	Exceptions to Criteria	<u>---</u>
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>MERCURY</u>		
Source(s) of Impairment	<u>SOURCE UNKNOWN</u>		
TMDL Status	<u>---</u>	Name	<u>---</u>
Background/Ambient Data		Data Source	
pH (SU)	<u>7</u>	Default	
Temperature (°F)	<u>25</u>	Default	
Hardness (mg/L)	<u>100</u>	Default	
Other:			
Nearest Downstream Public Water Supply Intake	<u>Aqua Pennsylvania, Inc. - Emlenton</u>		
PWS Waters	<u>Allegheny River</u>	Flow at Intake (cfs)	<u>1,376</u>
PWS RMI	<u>90.0</u>	Distance from Outfall (mi)	<u>---</u>

Changes Since Last Permit Issuance: N/A -This is a proposed discharge (Planning was approved on August 7, 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 Premier Tech EC7-500-C-P coco filter unit.

The Premier Tech EC7-500-C-P concrete 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 a SRSTP.

Allegheny River—the receiving water for discharges from Outfall 001 is impaired by Mercury, but the proposed discharge is not expected to contribute to the impairment.

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) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ 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
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

The screenshot displays the Pennsylvania eMapPA web application interface. At the top, the Pennsylvania Department of Environmental Protection logo is on the left, and navigation links for PA State Agencies, Online Services, and DEP Home are on the right. The main map area shows aerial imagery of a river system. A popup window titled "Designated Use Streams (1 of 4)" is open over a specific segment of the Allegheny River, providing detailed metadata. The popup includes fields for Gen ID, GNIS Name, GNIS ID, ReachCode, COMID, Length Miles, Map Symbology, Designated Use, DES Use ID, Use Description, Migratory_Fish, HUC, and Basin. A "Basin Narrative" is also provided. The map interface includes a legend on the left, a toolbar at the top, and a "Locate Latitude and Longitude" panel on the right.

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

Designated Use Streams (1 of 4)

Designated Use Gen ID: 100582
 GNIS Name: Allegheny River
 GNIS ID: 01209386
 ReachCode: 05010003000076
 COMID: 100470211
 Length Miles: 0.626
 Map Symbology: WWF
 Length Miles: 0.626
 Designated Use: 12
 DES Use ID: 8
 Use Description: WWF(WARM WATER FISHES)
 Migratory_Fish: N
 HUC: 05010003
 Basin: Y
 Basin Narrative: This is a MAINSTEM delineation. Only the segment described below is included. The tributaries to the segment are not included.
[Zoom to](#)

Locate Latitude and Longitude

Decimal Degrees DD/MM/SS

Latitude: Degrees: 41 Minutes: 41 Seconds: 12.71
 Longitude: -79 22 1.52

Locate Close

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:

PA

Workspace ID:

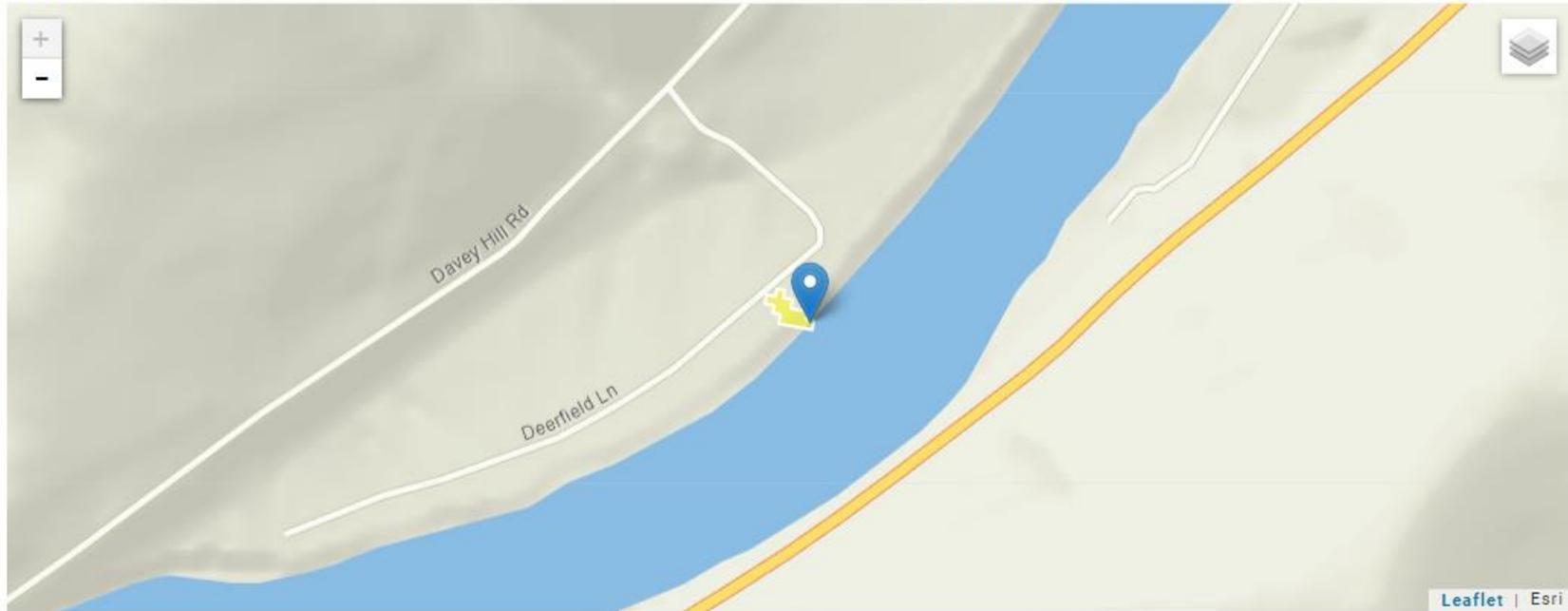
PA20230912123718644000

Clicked Point (Latitude, Longitude):

41.68685, -79.36709

Time:

2023-09-12 08:37:48 -0400



+ Collapse All

> Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.000463	square miles