

Application Type New
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0293083
APS ID 1085612
Authorization ID 1434681

Applicant, Facility and Project Information

Applicant Name	<u>Derek Bone</u>	Facility Name	<u>Derek Bone SRSTP</u>
Applicant Address	<u>4244 Normandy Rue</u> <u>Erie, PA 16506-3632</u>	Facility Address	<u>6311-6325 Rick Road</u> <u>Mckean, PA 16426</u>
Applicant Contact	<u>Derek Bone</u>	Facility Contact	<u></u>
Applicant Phone	<u>(914) 397-7757</u>	Facility Phone	<u></u>
Applicant Email	<u>dmbone@gmail.com</u>		
Client ID	<u>376528</u>	Site ID	<u>862362</u>
SIC Code	<u>8800</u>	Municipality	<u>McKean Township</u>
SIC Description	<u>Private Households</u>	County	<u>Erie</u>
Date Application Received	<u>March 23, 2023</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>April 20, 2023</u>	WQM App. No.	<u>2523411</u>
Project Description	<u>Installation of a Single Residence Sewage Treatment Plant</u>		

Summary of Review

This is a new discharge for a proposed 4 bedroom residential dwelling with proposed construction of a single residence sewage treatment plant. The daily sewage flow is projected to be 500 GPD.

Proposed treatment will consist of (WQM Permit No. 2523411): A Premier Tech EC7-500-P-P-PACK-DiUV Coco Filter Unit with integrated 800-gallons septic tank, effluent filter and DiUV disinfection unit.

Act 14 – Proof of Notification was submitted and received.

There are no open violations in WMS for Client ID 376528 as of 4/24/2023. CWY

SPECTIAL CONDITIONS: NONE

The EPA waiver is in effect.

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 Trainee	April 20, 2023
X		Chad W. Yurisc Chad W. Yurisc, P.E. / Environmental Engineer Manager	4/24/2023

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>.0005</u>
Latitude	<u>42° 0' 25.56"</u>	Longitude	<u>-80° 10' 42.06"</u>
Quad Name	<u>Swanville</u>	Quad Code	<u>42080A2</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Elk Creek (CWF, MF)</u>	Stream Code	<u>62580</u>
NHD Com ID	<u>123925648</u>	RMI	<u>0.2500</u>
Drainage Area	<u>0.37</u>	Yield (cfs/mi ²)	<u>0.1</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.037</u>	Q ₇₋₁₀ Basis	<u>Default</u>
Elevation (ft)	<u>948</u>	Slope (ft/ft)	<u>---</u>
Watershed No.	<u>15-A</u>	Chapter 93 Class.	<u>CWF, MF</u>
Existing Use	<u>---</u>	Existing Use Qualifier	<u>---</u>
Exceptions to Use	<u>---</u>	Exceptions to Criteria	<u>---</u>
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	<u>---</u>		
Source(s) of Impairment	<u>---</u>		
TMDL Status	<u>---</u>	Name	<u>---</u>
Background/Ambient Data		Data Source	
pH (SU)	<u>7</u>	Default	
Temperature (°F)	<u>20</u>	Default	
Hardness (mg/L)	<u>100</u>	Default	
Other:	<u></u>		
Nearest Downstream Public Water Supply Intake	<u>PA – Canadian International Boundary in Lake Erie</u>		
PWS Waters	<u>Lake Erie</u>	Flow at Intake (cfs)	<u>---</u>
PWS RMI	<u>---</u>	Distance from Outfall (mi)	<u>---</u>

Changes Since Last Permit Issuance: N/A -This is a proposed discharge (Planning was approved on March 23, 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-P-P-PACK-DiUV Coco Filter Unit.

The Premier Tech EC7-500-P-P-PACK-DiUV 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.

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 shows 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 state officials are on the right. The main map area displays aerial imagery with several streams overlaid in different colors: purple, cyan, and blue. A legend on the left side categorizes these streams under 'Regulated Facilities and Related Information', 'Streams and Water Resources', 'Water Quality', and 'Boundaries'. A pop-up window titled 'Designated Use Streams (1 of 3)' is open over a stream, displaying the following metadata:

- Designated Use Gen ID: 86507
- GNIS Name:
- GNIS ID:
- ReachCode: 04120101005412
- COMID: 123925648
- Length Miles: 0.853
- Map Symbology: CWF
- Length Miles: 0.853
- Designated Use: 2
- DES Use ID: 1
- Use Description: CWF(COLD WATER FISHES)
- Migratory_Fish: Y
- HUC: 04120101
- Basin: N
- Basin Narrative: Null
- Segment Narrative: Null
- Evaluation Date: Null

Below the map, a scale bar shows 0, 0.1, and 0.2 miles. At the bottom, a source attribution for the imagery and streets data is provided.

Drainage Area Location – StreamStats with Aerial Imagery

StreamStats Report

Region ID:

PA

Workspace ID:

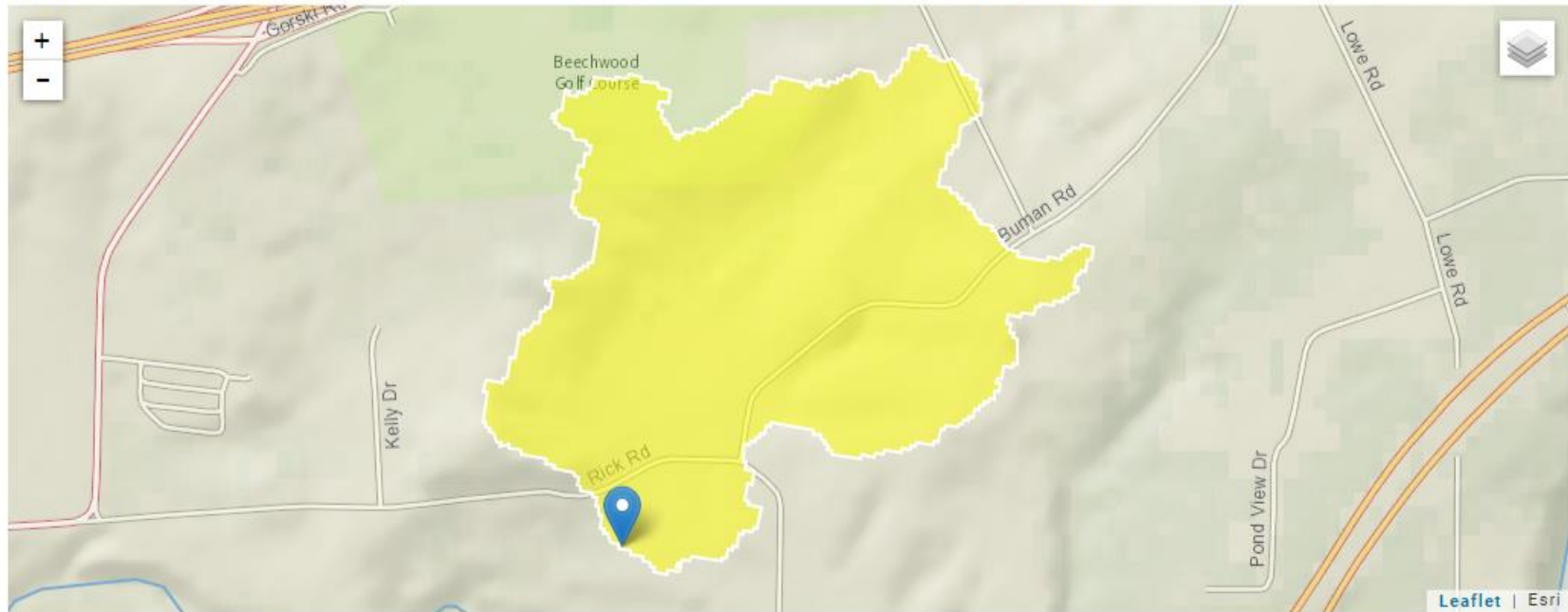
PA20230420132411877000

Clicked Point (Latitude, Longitude):

42.00712, -80.17836

Time:

2023-04-20 09:24:36 -0400



+ Collapse All

➤ Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.37	square miles