

Application Type New
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0288098
APS ID 1011153
Authorization ID 1305220

Applicant, Facility and Project Information

Applicant Name	<u>Sarah Eberle</u>	Facility Name	<u>Sarah Eberle SRSTP</u>
Applicant Address	<u>304 Margaret Avenue</u> <u>Evans City, PA 16033</u>	Facility Address	<u>304 Margaret Avenue</u> <u>Evans City, PA 16033</u>
Applicant Contact	<u>Sarah Eberle</u>	Facility Contact	<u>Sarah Eberle</u>
Applicant Phone	<u>(724) 504-2072</u>	Facility Phone	<u>(724) 504-2072</u>
Client ID	<u>355134</u>	Site ID	<u>840453</u>
SIC Code	<u>8800</u>	Municipality	<u>Forward Township</u>
SIC Description	<u>Private Households</u>	County	<u>Butler</u>
Date Application Received	<u>January 31, 2020</u>	WQM Required	<u>Yes, WQM Permit No. 1020402</u>
Date Application Accepted	<u>February 24, 2020</u>	WQM App. No.	<u>1020402</u>
Project Description	<u>Single Residence Sewage Treatment Plant.</u>		

Summary of Review

This is a new discharge for an existing 3-bedroom home to a repair of an existing malfunctioning on-lot system. All existing tanks will be pumped clean by a certified hauler and filled with sand or removed from site.

Act 14 – Proof of Notification was submitted and received.

SPECIAL CONDITIONS: None.

Proposed treatment will consist of (WQM Permit No. 1020402): A Premier Tech EC7-600-P-P/G PACK Coco filter unit. This unit contains a septic tank, coco filter and ultraviolet (UV) disinfection unit.

The EPA Waiver is in effect.

There are no open violations in WMS for the subject Client ID (355134) as of 02/24/2020.

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		Jordan A. Frey. / Civil Engineer Trainee	
X		Justin C. Dickey, P.E. / Environmental Engineer Manager	

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.0004</u>
Latitude	<u>40° 46' 27.35"</u>	Longitude	<u>-80° 03' 3.95"</u>
Quad Name	<u>Evans City</u>	Quad Code	<u>40080G1</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Breakneck Creek</u>	Stream Code	<u>35028</u>
NHD Com ID	<u>126218489</u>	RMI	<u>0.1800</u>
Drainage Area	<u>0.23</u>	Yield (cfs/mi ²)	<u>0.1</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.023</u>	Q ₇₋₁₀ Basis	<u>Default</u>
Elevation (ft)	<u>1009 (Google Earth)</u>	Slope (ft/ft)	<u>---</u>
Watershed No.	<u>20C</u>	Chapter 93 Class.	<u>Warm Water Fishes</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>7.0</u>	Default	<u>Default</u>
Temperature (°F)	<u>20</u>	Default	<u>Default</u>
Hardness (mg/L)	<u>100</u>	Default	<u>Default</u>
Other:	<u>---</u>	---	<u>---</u>
Nearest Downstream Public Water Supply Intake	<u>PA American Water Co. at Ellwood City</u>		
PWS Waters	<u>Connoquenessing Creek</u>	Flow at Intake (cfs)	<u>53.1</u>
PWS RMI	<u>0.1</u>	Distance from Outfall (mi)	<u>28.32</u>

Changes Since Last Permit Issuance: N/A – This is a proposed discharge (Planning was approved on January 24, 2020).

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 EC7-600-P-P/G PACK Coco filter unit. The proposed discharge is to resolve a repair of a malfunctioning on-lot system.

The Premier Tech EC7 Coco filter unit is reportedly capable of meeting CBOD5 averages of 8 mg/l and TSS averages of 6 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	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 for BOD₅, Total Suspended Solids, and Fecal Coliform are technology-based on Chapter 92a.47. The limits for pH are technology-based on Chapter 93.7.

Attachment 1
Google Earth Imagery



Attachment 2
eMap – Location Map/Receiving Stream Designation

The screenshot displays the eMapPA web application interface. At the top, there is a navigation bar with the Pennsylvania Department of Environmental Protection logo and the text "eMapPA". Below this is a search bar and several menu options: "Map", "eFacts Query", "Advanced Query", and "Filter Plant Source Search".

On the left side, there is a "Layers" panel with a tree view of map layers. The "Designated Use Streams" layer is selected and expanded, showing various stream types such as "Cold Water Fish", "Exceptional Value", "High Quality", "Trout Stocking", and "Warm Water Fish".

The main map area shows a satellite-style view of a stream network. A specific stream segment is highlighted in purple. A data popup window is open over this segment, displaying the following information:

- Designated Use Streams (1 of 4)
- Designated Use Gen ID: 44771
- GNIS Name:
- GNIS ID:
- ReachCode: 05030105000629
- COMID: 126218489
- Length Miles: 0
- Map Symbology: WWF
- Length Miles: 0
- Designated Use: 12
- DES Use ID: 8
- Use Description: WWF(WARM WATER FISHES)
- Migratory_Fish: N
- HUC: 05030105
- Basin: N
- Basin Narrative: Null
- Segment Narrative: Null
- Evaluation Date: Null
- Last Edit Date: Null
- Zoom to

Below the popup, the coordinates "Latitude: 40.774264 - Longitude: -80.051097" are displayed. In the top right corner, there is a "Locate Latitude and Longitude" tool with input fields for Degrees, Minutes, and Seconds for both Latitude and Longitude, and "Locate" and "Close" buttons.

At the bottom of the map, there is a scale bar (0 to 600 feet) and the Esri logo. A footer note reads: "Imagery: undefined; 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".

Attachment 3
StreamStats Report – Drainage Area

StreamStats Report

Region ID: PA
 Workspace ID: PA20200224164053370000
 Clicked Point (Latitude, Longitude): 40.77494, -80.05175
 Time: 2020-02-24 11:41:10 -0500

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.23	square miles
PRECIP	Mean Annual Precipitation	39	inches
CARBON	Percentage of area of carbonate rock	0	percent
FOREST	Percentage of area covered by forest	39	percent
URBAN	Percentage of basin with urban development	25	percent
ELEV	Mean Basin Elevation	1136.6	feet

Base Flow Statistics Parameters: (Statewide Mean and Base Flow)