

Application Type New  
Wastewater Type Sewage  
Facility Type SRSTP

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

Application No. PA0292869  
APS ID 1079297  
Authorization ID 1424060

**Applicant, Facility and Project Information**

Applicant Name	<u>Barbara &amp; Charles Curtis</u>	Facility Name	<u>Barbara &amp; Charles Curtis SRSTP</u>
Applicant Address	<u>11330 Route 18</u> <u>Albion, PA 16401-9536</u>	Facility Address	<u>11330 Route 18</u> <u>Albion, PA 16401-9536</u>
Applicant Contact	<u>Charles Curtis</u>	Facility Contact	<u></u>
Applicant Phone	<u>(814) 756-3531</u>	Facility Phone	<u></u>
Client ID	<u>374743</u>	Site ID	<u>860038</u>
SIC Code	<u>8800</u>	Municipality	<u>Conneaut Township</u>
SIC Description	<u>Private Households</u>	County	<u>Erie</u>
Date Application Received	<u>January 11, 2023</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>January 24, 2023</u>	WQM App. No.	<u>2523402</u>
Project Description	<u>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 to replace a malfunctioning on-lot sewage disposal system.

Proposed treatment will consist of (WQM Permit No. 2523402): A 1,000 gallon dual-compartment septic tank, an Ecoflo Coco Filter EC7-500-P-P-USA treatment tank, a UV disinfection unit and outfall pipe.

Act 14 – Proof of Notification was submitted and received.

Act 537 Sewage Facilities Planning Module Component 3s was approved December 1, 2022. cwr

SPECIAL 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	January 24, 2023
X		Chad W. Yurisc Chad W. Yurisc, P.E. / Environmental Engineer Manager	February 2, 2023

Discharge and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	.0004
Latitude	41° 51' 23.4"	Longitude	-80° 22' 15.9"
Quad Name	Conneautville	Quad Code	41080G3
Wastewater Description: Sewage Effluent			
Receiving Waters	Unnamed Tributary to Conneaut Creek (CWF, MF)	Stream Code	63456
NHD Com ID	123926091	RMI	0.57
Drainage Area		Yield (cfs/mi <sup>2</sup> )	
Q <sub>7-10</sub> Flow (cfs)	0	Q <sub>7-10</sub> Basis	Dry Stream
Elevation (ft)	1057	Slope (ft/ft)	---
Watershed No.	15-A	Chapter 93 Class.	CWF, MF
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	Default	
Temperature (°F)	20	Default	
Hardness (mg/L)	100	Default	
Other:			
Nearest Downstream Public Water Supply Intake	PA – Canadian International Boundary in Lake Erie		
PWS Waters	Lake Erie	Flow at Intake (cfs)	---
PWS RMI	---	Distance from Outfall (mi)	---

Changes Since Last Permit Issuance: N/A - This is a proposed discharge (Planning was approved on December 1, 2022)

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 Ecoflo Coco Filter EC7-500-P-P-USA treatment tank.

The EC7-500-P-P-USA Ecoflo Coco Filter 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) <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 Inst Min	XXX	XXX	9	Upon Request	Grab
BOD5	XXX	XXX	XXX	10	XXX	20	1/year	Grab
TSS	XXX	XXX	XXX	10	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 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

**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

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

ESRI Streets & Imagery Topographic National Geographic

Streets Imagery

Latitude: 41.8565 - Longitude: -80.159

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

Designated Use Gen ID: 17198  
GNIS Name:  
GNIS ID:  
ReachCode: 04120101000666  
COMID: 123926091  
Length Miles: 3.39  
Map Symbology: CWF  
Length Miles: 3.39  
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  
Last Fdit Date: Null  
[Zoom to](#)

Locate Latitude and Longitude

Decimal Degrees DD/MM/SS

Latitude: Degrees Minutes Seconds  
41 51 23.4

Longitude: Degrees Minutes Seconds  
-80 22 15.9

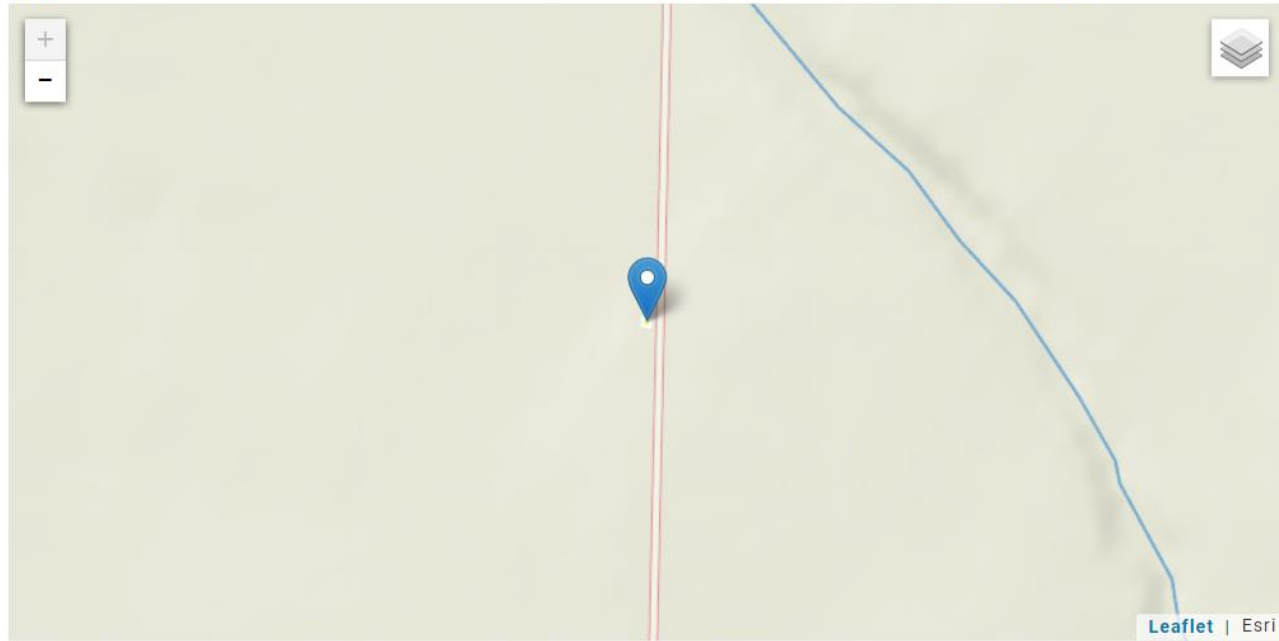
Locate Close

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

## Drainage Area Location – StreamStats with Aerial Imagery

# StreamStats Report

Region ID: PA  
Workspace ID: PA20230124164450864000  
Clicked Point (Latitude, Longitude): 41.85650, -80.37114  
Time: 2023-01-24 11:45:18 -0500



⊕ Collapse All

## Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.0000386	square miles