

Application Type Renewal  
Wastewater Type Sewage  
Facility Type SRSTP

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

Application No. PA0238635  
APS ID 1050885  
Authorization ID 1374856

**Applicant, Facility and Project Information**

Applicant Name	<u>Frank A., Jr. &amp; Melissa A. Blaine</u>	Facility Name	<u>Frank A., Jr. &amp; Melissa A. Blaine SRSTP</u>
Applicant Address	<u>304 Eagle Mill Road Butler, PA 16001</u>	Facility Address	<u>304 Eagle Mill Road Butler, PA 16001</u>
Applicant Contact	<u>Melissa Blaine</u>	Facility Contact	<u>Melissa Blaine</u>
Applicant Phone	<u>724-283-1398</u>	Facility Phone	<u>724-283-1398</u>
Client ID	<u>158482</u>	Site ID	<u>542337</u>
SIC Code	<u>8800</u>	Municipality	<u>Connoquenessing Township</u>
SIC Description	<u>Private Households</u>	County	<u>Butler County</u>
Date Application Received	<u>October 25, 2021</u>	WQM Required	<u>No</u>
Date Application Accepted	<u>November 3, 2021</u>	WQM App. No.	<u>-</u>
Project Description	<u>NPDES Permit renewal for an existing discharge of treated sanitary wastewater from a Single Residence Sewage Treatment Plant (SRSTP).</u>		

**Summary of Review**

Act 14 - Proof of Notification was submitted and received.

The applicant should be able to meet the limits of this permit, which will protect the uses of the receiving stream.

I. OTHER REQUIREMENTS:

- |  |                                 |
|--|---------------------------------|
| A. AMRs  | F. Stormwater into sewers       |
| B. DMRs  | G. Right of way                 |
| C. Depth of Septage and Scum Measurement           | H. Solids handling              |
| D. Septic Tank Pumping                             | I. Public Sewerage Availability |
| E. Effluent Chlorine Optimization and Minimization |                                 |

SPECIAL CONDITIONS: None.

Permitted treatment consists of: A Chromaglass CA-5 aerobic treatment unit, a 40 square foot (7'-9" x 5'-3") flooded surface sand filter, and tablet chlorine disinfection with a 130 gallon contact tank.

There are no open violations in EFACTS associated with the subject Client ID (158482) as of 12/16/2022.

Approve	Deny	Signatures	Date
X		Stephen A. McCauley Stephen A. McCauley, E.I.T. / Environmental Engineering Specialist	12/16/2022
X		Adam J. Pesek (Lead Reviewer) for Vacant / Environmental Engineer Manager	12/19/2022

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.0004</u>
Latitude	<u>40° 52' 03.00"</u>	Longitude	<u>-79° 59' 19.00"</u>
Quad Name	<u>-</u>	Quad Code	<u>-</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Little Connoquenessing Creek (CWF)</u>	Stream Code	<u>34918</u>
NHD Com ID	<u>134395544</u>	RMI	<u>12.5</u>
Drainage Area	<u>-</u>	Yield (cfs/mi <sup>2</sup> )	<u>-</u>
Q <sub>7-10</sub> Flow (cfs)	<u>-</u>	Q <sub>7-10</sub> Basis	<u>-</u>
Elevation (ft)	<u>-</u>	Slope (ft/ft)	<u>-</u>
Watershed No.	<u>20C</u>	Chapter 93 Class.	<u>Cold 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>Final</u>	Name	<u>Little Connoquenessing Creek Watershed</u>
Background/Ambient Data		Data Source	
pH (SU)	<u>-</u>	<u>-</u>	
Temperature (°F)	<u>-</u>	<u>-</u>	
Hardness (mg/L)	<u>-</u>	<u>-</u>	
Other:	<u>-</u>	<u>-</u>	
Nearest Downstream Public Water Supply Intake	<u>Harmony Borough Water Authority</u>		
PWS Waters	<u>Little Connoquenessing Creek</u>	Flow at Intake (cfs)	<u>2.0</u>
PWS RMI	<u>1.1</u>	Distance from Outfall (mi)	<u>11.5</u>

This SFTF is 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 Chromaglass CA-5 aerobic treatment unit and a flooded surface sand filter.

No modeling was performed since this is a renewal of an existing NPDES Permit and the technology-based limits set are already below the inputs of the model.

**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 (MGD)	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
TRC	XXX	XXX	XXX	Report Avg Mo	XXX	XXX	1/month	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 disinfection.

Flow and TRC are monitor only based on Chapter 92a.61. The limits for pH are technology-based on Chapter 93.7. The limits for BOD<sub>5</sub>, Total Suspended Solids, and Fecal Coliforms are technology-based on the Department's "Small Flow Treatment Facilities Manual."