

Application Type New
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0272558
APS ID 1002983
Authorization ID 1290635

Applicant, Facility and Project Information

Applicant Name	<u>Michael Forster</u>	Facility Name	<u>Michael Forster SRSTP</u>
Applicant Address	<u>11264 Whitewood Drive</u> <u>Newbury, OH 44065</u>	Facility Address	<u>4883 Route 6</u> <u>Sheffield, PA 16347</u>
Applicant Contact	<u>Michael Forster</u>	Facility Contact	<u>Michael Forster</u>
Applicant Phone	<u>(216) 906-6731</u>	Facility Phone	<u>(216) 906-6731</u>
Client ID	<u>352753</u>	Site ID	<u>837729</u>
SIC Code	<u>8800</u>	Municipality	<u>Sheffield Township</u>
SIC Description	<u>Private Households</u>	County	<u>Warren</u>
Date Application Received	<u>September 27, 2019</u>	WQM Required	<u>YES</u>
Date Application Accepted	<u>October 7, 2019</u>	WQM App. No.	<u>6219413</u>
Project Description	<u>Single Residence Sewage Treatment Plant</u>		

Summary of Review

This is a new discharge for an existing 3-bedroom home due to a repair of an existing malfunctioning on-lot system.

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 Management | H. Solids Handling |
| D. Septic Tank Pumping | I. Public Sewerage Availability |
| E. Chlorine Optimization | |

SPECIAL CONDITIONS: None.

Proposed treatment will consist of (WQM Permit No. 6219413): A 1,000-gallon dual compartment concrete septic tank with an effluent filter followed by a Premier Tech EC7-500-C-P Coco filter with integral UV disinfection and effluent pumping.

The EPA Waiver is in effect.

There are no open violations in WMS for the subject Client ID (352753) as of 10/8/2019.

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		Justin C. Dickey, P.E. / Environmental Engineer Manager	
X		John A. Holden, P.E. / Environmental Program Manager	

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	.0004
Latitude	41° 42' 12.24"	Longitude	-79° 1' 8.82"
Quad Name		Quad Code	
Wastewater Description: Sewage Effluent			
Receiving Waters	Twomile Run (HQ-CWF)	Stream Code	55425
NHD Com ID	100468251	RMI	0.84
Drainage Area	25.9 sq. mi, (StreamStats)	Yield (cfs/mi ²)	0.1 (default)
Q ₇₋₁₀ Flow (cfs)	2.59	Q ₇₋₁₀ Basis	Calculated - Default
Elevation (ft)	1345 (Google Earth)	Slope (ft/ft)	-
Watershed No.	16F	Chapter 93 Class.	High Quality Waters - Cold Water Fishes
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)	7.0	Default	
Temperature (°F)	20	Default - CWF	
Hardness (mg/L)	100	Default	
Other:	-	-	
Nearest Downstream Public Water Supply Intake	Aqua Pa, Emlenton		
PWS Waters	Allegheny River	Flow at Intake (cfs)	1376
PWS RMI	90.67	Distance from Outfall (mi)	102.91

Changes Since Last Permit Issuance: N/A – This is a proposed discharge (Planning was approved on September 16, 2019)

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. The proposed discharge is to resolve a repair of a malfunctioning on-lot system.

The Premier Tech EC7-500-C-P 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) ⁽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	1/month	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 and, as a Regional policy, the monitoring frequency has been established as "1/month" due to High Quality (HQ) stream designation.

Attachment 1
eMap – Location Map / Receiving Stream Designation

The screenshot displays the Pennsylvania eMapPA web application interface. On the left is a 'Layers' legend with various categories such as 'Designated Use Streams', 'Storage Tanks', and 'Boundaries'. The main map area shows a street grid in Sheffield Milltown with a stream highlighted in orange. A pop-up window titled 'Designated Use Streams (1 of 3)' is open, showing the following details:

- Designated Use Gen ID: 16735
- GNIS Name: Twomile Run
- GNIS ID: 01210225
- ReachCode: 05010003000446
- COMID: 100468251
- Length Miles: 0.416
- Map Symbology: HQ
- Length Miles: 0.416
- Designated Use: 5
- DES Use ID: 4
- Use Description: HQ-CWF(HIGH QUALITY-COLD WATER FISHES)
- Migratory_Fish: N
- HUC: 05010003
- Basin: N
- Basin Narrative: Null
- Segment Narrative: Null
- Evaluation Date: Null
- Last Edit Date: 1/4/2007 2:00:33 PM

At the bottom of the map, a scale bar shows 0, 300, and 600 feet. The ESRI logo is visible in the bottom right corner of the map area.

Attachment 2
Google Earth Imagery

