

Application Type Renewal
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0262111
APS ID 881762
Authorization ID 1257751

Applicant, Facility and Project Information

Applicant Name	<u>Gerald S Miller</u>	Facility Name	<u>Gerald S Miller Residence</u>
Applicant Address	<u>847 Johnstown Road</u> <u>East Freedom, PA 16637-8242</u>	Facility Address	<u>847 Johnstown Road</u> <u>East Freedom, PA 16637-8242</u>
Applicant Contact	<u>Gerald Miller</u>	Facility Contact	<u>Gerald Miller</u>
Applicant Phone	<u>(814) 330-4991</u>	Facility Phone	<u>(814) 330-4991</u>
Client ID	<u>323077</u>	Site ID	<u>771547</u>
SIC Code	<u>8811</u>	Municipality	<u>Freedom Township</u>
SIC Description	<u>Services - Private Households</u>	County	<u>Blair</u>
Date Application Received	<u>December 24, 2018</u>	WQM Required	<u>No</u>
Date Application Accepted	<u>January 15, 2019</u>	WQM App. No.	<u>N/A</u>
Project Description	<u>Renewal of Existing SRSTP NPDES permit</u>		

Summary of Review

An application received on December 24, 2018 for reissuance of a NPDES permit to discharge treated sewage from the single-family residence sewage treatment plant located at 847 Johnstown Road, East Freedom, PA. This is located in East Freedom Township, Blair County. The permit was last reissued on January 21, 2014 and became effective on February 1, 2014. The permit expired on January 31, 2019.

Changes in this renewal: SIC code updated to 8811 per SOP. Effluent limitations average monthly for flow proposed updated to report annual average.

Based on the review outline in this fact sheet, it is recommended that the permit be drafted and published in Pennsylvania Bulletin for public comments for 30 days.

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		Hilary H. Le / Environmental Engineering Specialist	May 9, 2019
		Daniel W. Martin, P.E. / Environmental Engineer Manager	
		Maria D. Bebenek, P.E. / Clean Water Program Manager	

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	0.0004
Latitude	40° 21' 12.30"	Longitude	-78° 26' 32.76"
Quad Name	Roaring Spring	Quad Code	N/A
Wastewater Description: Sewage Effluent			
Receiving Waters	Unnamed Tributary to South Dry Run (WWF, MF)	Stream Code	16574
NHD Com ID	65610036	RMI	0.1600
Drainage Area	0.23 square mile	Yield (cfs/mi ²)	0.0041
Q ₇₋₁₀ Flow (cfs)	0.000945	Q ₇₋₁₀ Basis	USGS StreamStats
Elevation (ft)		Slope (ft/ft)	
Watershed No.	11A	Chapter 93 Class.	Warm Water Fishes, Migratory Fishes
Existing Use		Existing Use Qualifier	None
Exceptions to Use		Exceptions to Criteria	None
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment	N/A		
Source(s) of Impairment	N/A		
TMDL Status	N/A	Name	N/A
Nearest Downstream Public Water Supply Intake	Mifflintown Water System Juniata County		
PWS Waters	Juniata River	Flow at Intake (cfs)	
PWS RMI	37.3 miles	Distance from Outfall (mi)	107.2 miles

Changes Since Last Permit Issuance:

There was one amendment for transfer of ownership for NPDES Permit No. PA0262111 A-1 & WQM Permit No. 0713402 T-1 on November 18, 2015.

Drainage Area:

The discharge is to the headwater of Unnamed Tributary 16574 to South Dry Run at RMI 0.16 mile. A drainage area of the point of discharge is estimated to be 0.23 square miles according to USGS StreamStats available at <https://streamstats.usgs.gov/ss/>.

Streamflow:

USGS StreamStats produces a Q₇₋₁₀ 0.000945 cfs at the point of discharge.

Unnamed Tributary 16574 to South Dry Run:

Under 25 Pa Code § 93.9n., all unnamed tributary to South Dry Run are designated as warm water and migratory fishes. No special protection water(s) is therefore impacted by this discharge. DEP's latest integrated report prepared in 2016 showed South Dry Run is not impaired and the discharge is located in a stream segment listed as attaining uses.

Public Water Supply Intake:

The fact sheet prepared for the renewal permit indicated that the nearest downstream public water supply intake is Mifflintown Water System Juniata County located on Juniata River, approximately 107.2 miles from the discharge. Considering dilution, the discharge is not expected to impact the water supply.

Compliance History	
Summary of DMRs/AMRs:	2016, and 2017 - 2018 AMR reports submitted to DEP.
Summary of Inspections:	<p>Frederick Clark, DEP Water Quality Specialist, conducted the inspection in 2015, no violations were noted at the time of inspection. The inspection report documented that the permittee needs inspections, maintenance performed, and take effluent samples for lab analysis one per year for TSS, CBOD₅, and Fecal Coliform as permit requirements.</p> <p>5/2/2019: Mr. Clark, DEP WQS, conducted the inspection, no violations were noted at the time of inspection. During the inspection, homeowner had copies of laboratory results for effluent samples taken in April 2018. These results were used to complete a 2017-2018 Annual Maintenance Report.</p>
Other Comments:	Since the last permit, there are currently no open violation associated with this facility or permittee.

Treatment Facility Summary

The treatment system serving 3-bedroom single residence capacity 400 GPD consists of a two-compartment 1,000-gallon septic tank with effluent filter, model Orenco AdvanTex AX20-RTUV, with disinfection system by UV. The original WQM permit No. 0713402 was issued on Jan. 21, 2014.

Development of Effluent Limitations and Monitoring Requirements

Unless stated otherwise below, the proposed effluent limitations and monitoring requirements listed on page 4 of the Fact sheet are derived from DEP's Standard Operating Procedure (SOP) for New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications (SOP No. BPNPSM-PMT-003) revised January 13, 2015. First, all existing monitoring frequencies have been changed to reflect the requirements specified in the SOP (i.e., all average monthly codes have been modified to annual average due to WMS coding issues). This is a reasonable approach as the permittee has been submitting annual maintenance reports consistently and no significant maintenance/operation issues are found.

The reviewer notes that the existing CBOD₅ and TSS monitoring frequencies and limits are consistent with the monitoring frequencies and limits recommended in DEP SOP no. BPNPSM-PMT-003 for SRSTPs. A review of the facility's AMRs verify that the existing facility can meet the more stringent limits in the SOP. Therefore, the monitoring frequencies and limits from the previous permit will remain the same.

Chesapeake Bay Requirements

No nutrient monitoring requirement is recommended for this facility. Facilities that are designed based on a flow of less than or equal to 2,000 GPD or considered as SRSTPs are exempt from the Bay requirements.

Total Maximum Daily Load (TMDL)

The discharge is located in a stream segment listed as attaining uses; therefore, no TMDL has been taken into consideration during this review.

Anti-Degradation Requirements

The discharge is to non-special protection waters/watershed. No HQ/EV waters are impacted by this discharge. The effluent limits for this discharge have been developed to ensure that existing instream water uses and the level of water quality necessary to protect the existing uses are maintained and protected.

Other Considerations

No Class A Wild Trout Fishery is impacted by this discharge. Considering dilution and distance from the intake, the discharge is not expected to affect the water supply.

Existing Effluent Limitations and Monitoring Requirements

The following are effluent limitations and monitoring requirements specified in the current permit:

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly		Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
CBOD ₅	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
Fecal Coliform (CFU/100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	1,000	1/year	Grab

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.

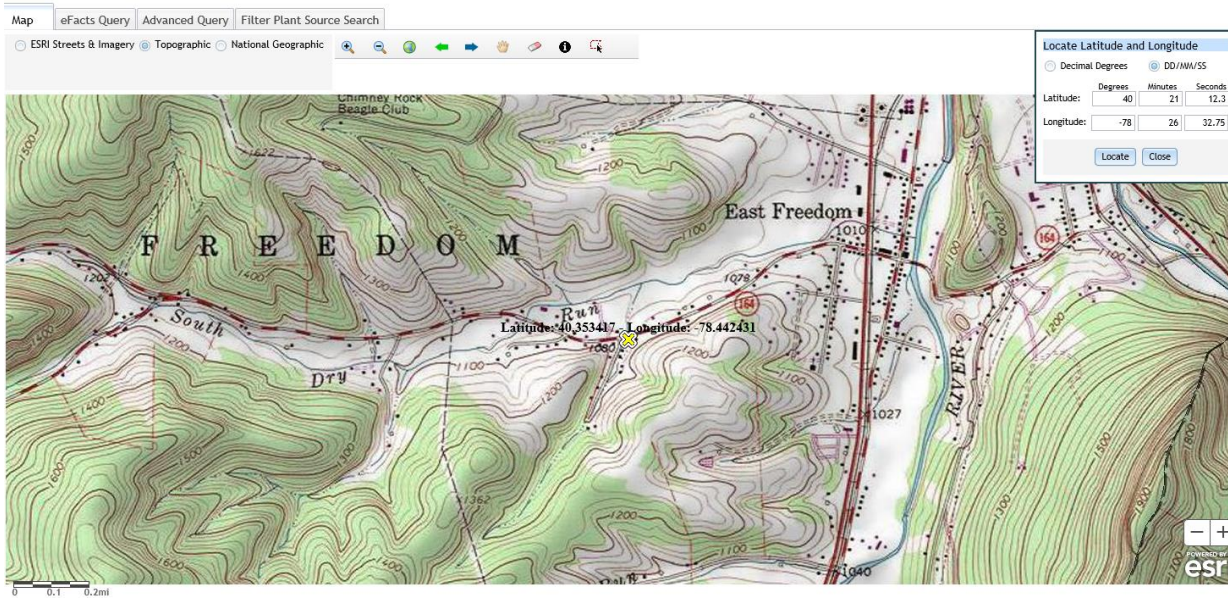
Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

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 (MGD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
BOD ₅	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	1,000	1/year	Grab

Compliance Sampling Location: outfall 001

Other Comments:

This is a topographic map for the subject facility.



This is an image photograph of the subject facility.

