

Southcentral Regional Office CLEAN WATER PROGRAM

Application Type	New
Wastewater Type	Sewage
Facility Type	SRSTP

NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

Application No.	PA0267619
APS ID	1049883
Authorization ID	1373207

pplicant Name	Terry L. Seibert	Facility Name	Seibert Residence	
applicant Address	568 Ridge Road	Facility Address	568 Ridge Road	
-	Lewisberry, PA 17339-9591		Lewisberry, PA 17339-9591	
pplicant Contact	Terry Seibert	Facility Contact	Terry Seibert	
pplicant Phone	(717) 991-1895	Facility Phone	(717) 991-1895	
Client ID	366198	Site ID	852711	
SIC Code	8811	Municipality	Fairview Township	
SIC Description	Services - Private Households	County	York	
ate Application Receiv	ved October 19, 2021	WQM Required		
ate Application Accept	ted October 27, 2021	WQM App. No.	6721407	

Summary of Review

This fact sheet supports the issuance of new NPDES permit for discharge of treated sewage from the single residence sewage treatment plant (SRSTP) located in Fairview Township, York County. The annual average design flow is 400 gallons per day. The discharge will be to Unnamed Tributary to Fishing Creek which is classified as Trout Stocking & Migratory Fishes (TSF & MF).

The WQM permit for the construction of the treatment system with permit No. 6721407 is concurrently under review. DEP Planning for the project was approved under Code No. A3-67919-478-3s.

DEP has prepared this report for the applications for both NPDES and WQM permits.

Based on the review outlined in this report, it is recommended that the NPDES permit be drafted and publish in the Pennsylvania Bulletin for public comments for 30 days.

Approve	Deny	Signatures	Date
Х		Hilaryle Hilary H. Le / Environmental Engineering Specialist	January 14, 2022
Х		Daniel W. Martin, P.E. / Environmental Engineer Manager	January 25, 2022

Discharge, Receiving Waters and Water Supply Information					
Outfall No. 001 Latitude 40° 10 Quad Name Stee Wastewater Descript	elton	Design Flow (MGD) Longitude Quad Code	0.0004 -76° 51' 55.25"		
Elevation (ft)	Unnamed Tributary to Fishing Creek (TSF, MF) 56406167 0.56 mi. ² 0.02 667 07-E Attaining Use(s)	Stream Code RMI Yield (cfs/mi²) Q ₇₋₁₀ Basis Slope (ft/ft) Chapter 93 Class. Existing Use Qualifier Exceptions to Criteria	09352 1.16 0.036 USGS StreamStats TSF, MF		
Cause(s) of Impairm	ent				
TMDL Status	ICHT	Name			
PWS Waters Su	n Public Water Supply Intake\ usquehanna River 3.51 miles	Wrightsville Water Supply Co. Flow at Intake (cfs) Distance from Outfall (mi)	, York County Approximate 25 miles		

Changes Since Last Permit Issuance: new

Drainage Area/Stream Flows

The discharge is to Unnamed Tributary 09352 to Fishing Creek at RMI 1.16 miles. A drainage area upstream of the discharge is estimated to be 0.56 mi.², according to USGS StreamStats available at https://streamstats.usgs.gov/ss/. USGS StreamStats also produced a Q7-10 flow of 0.02 cfs at the point of proposed discharge.

Unnamed Tributary to Fishing Creek to Susquehanna River

Under 25 Pa Code §93.9o, Unnamed Tributary to Fishing Creek is designated as Trout Stocking & Migratory Fishes (TSF & MF). No TMDL has been developed yet to address this stream (impairment). Fishing Creek does not support a Class A Wild Trout fishery. Therefore, no Class A Wild Trout fishery is impacted by this discharge.

Based on integrated report 2020, Unnamed Tributary to Fishing Creek, assessment ID 11427, is not impaired.

Public Water Supply Intake

According to DEP's eMapPA available at http://www.depgis.state.pa.us/emappa/, the nearest downstream public water supply intake is Wrightsville Water Supply Co., York County located on Susquehanna River, approximately 25 miles. Given the nature and distance, the proposed discharge is not expected to impact the water supply.

Treatment Facility Summary

The facility is proposed to serve the existing three-bedroom single family residence (400 GPD) located at 568 Ridge Road, Lewisberry, PA 17339. The facilities will be owned and maintained by Terry L. Seibert. The proposed treatment process, according to the application, is as follows:

One (1) 1000-gallon dual compartment concrete septic tank (or equivalent) → Zabel A300 effluent filters → Premier Tech EC7-500-P-P Coco filter → DiUV disinfection unit → Outfall.

The proposed septic tank will have enough capacity to handle the proposed design flow. An effluent filter will be provided at the end of the septic tank to reduce settleable and floatable solids in the effluent. A Biofilter Treatment System (filter) will be provided, which has been demonstrated to produce effluent that does not exceed 10 mg/L BOD $_5$ and 10 mg/L TSS. The proposed UV disinfection system will be able to provide an effluent fecal coliform concentration less than or equal to 200 No./100 mL.

The primary treatment tank sludge levels will be monitored yearly and pumped out no longer than 3-year intervals. The outlet of the tank will have an effluent filter, preventing solids from leaving the tank. The surface filter will be inspected annually. The UV unit will be accessible from the ground surface, allowing the UV bulb to be replaced or cleaned. The UV unit has an alarm-light system to alert for a treatment malfunction, and one or more spare bulbs will be kept on site for emergency replacement.

Compliance History

On July 20, 2021, DEP approved the Act 537 planning as a revision to the Act 537 official sewage facilities plan of Fairview Township (DEP Code No. A3-67919-478-3s).

This is a new facility; therefore, there are no effluent sample results / inspection reports associated with this facility. The Department's database indicates that there is currently no open violation associated with the facility or the applicant.

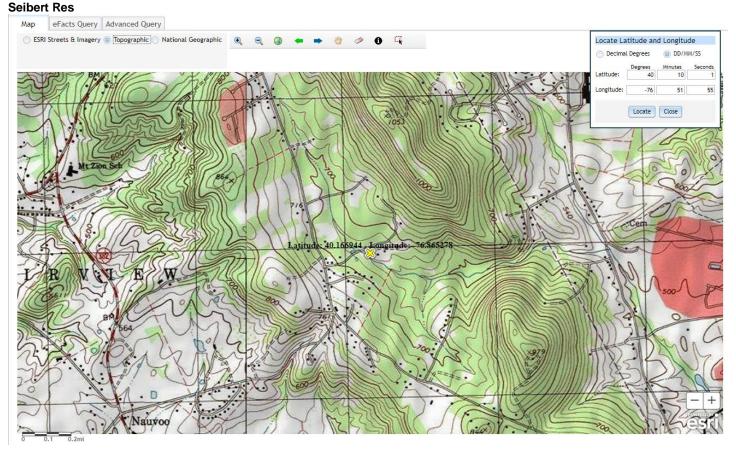
Development of Effluent Limitations and Monitoring Requirements

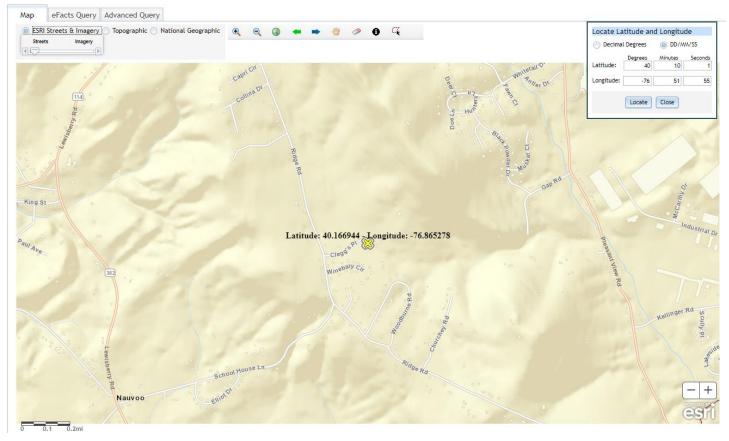
The effluent limitations and monitoring requirements are derived from DEP's Standard Operating Procedure (SOP) for New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications (SOP No. BPNPSM-PMT-003, revised May 17, 2019). Since the facility will utilize ultraviolet (UV) disinfection, monitoring requirements for total residual chlorine are not applicable.

According to the SOP referenced above, water quality monitoring using Toxic Management Spreadsheet and/or WQM are not required for SRSTPs. The permittee will be required to submit a completed Annual Maintenance Report (AMR) as part of the permit requirements. No DMR is necessary for any facilities that are required to report effluent monitoring results on AMRs annually.

The draft permit will include the following Part C conditions:

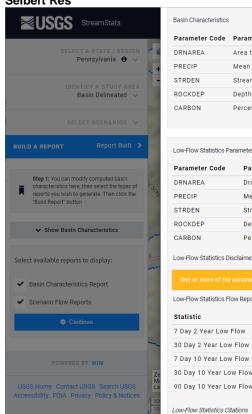
- a. Small Flow Treatment Facility Maintenance, including measurement of the depth of septage and scum, 3-year septic tank pumping requirement, reporting requirement of a completed Annual Maintenance Form.
- b. Stormwater Prohibition
- c. Property Rights
- d. Proper Disposal of Solids



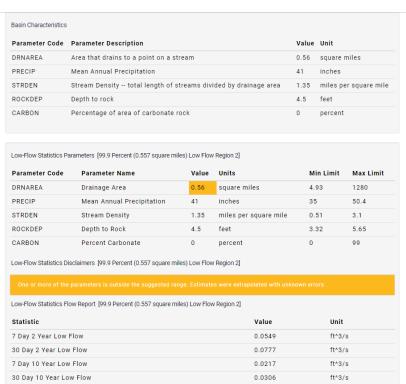


NPDES Permit Fact Sheet Seibert Res

NPDES Permit No. PA0267619



90 Day 10 Year Low Flow



0.0537

ft^3/s



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.

	Effluent Limitations				Monitoring Requirements			
Parameter	Mass Units	(lbs/day) (1)		Concentrations (mg/L)			Minimum (2)	Required
	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
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:

Other Comments: