

Northwest Regional Office CLEAN WATER PROGRAM

Application Type
Wastewater Type
Facility Type
Sewage
SRSTP

NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

Application No. PA0295167

APS ID 1091918

Authorization ID 1445718

Applicant, Facility and Project Information					
Applicant Name	Linda Churchill	Facility Name	Linda Churchill SRSTP		
Applicant Address	2425 Mercer Butler Pike	Facility Address	2421 Mercer Butler Pike		
	Grove City, PA 16127-3523		Grove City, PA 16127-3523		
Applicant Contact	Linda Churchill	Facility Contact			
Applicant Phone		Facility Phone			
Client ID	378286	Site ID Municipality	864130 Liberty Township		
SIC Code	8811				
SIC Description	Services - Private Households	County	Mercer		
Date Application Rec	eived June 13, 2023	WQM Required	Yes – Application Received		
Date Application Accepted		WQM App. No.	4323411		
Project Description	This is an application for a ne dwelling.	w Single Residence Sewage	e Treatment Plant (SRSTP) for an existing		

Summary of Review

This is a new discharge which will serve an existing 3-bedroom home to replace an existing malfunctioning on-lot system.

Act 14 - Notification was submitted and received.

Treatment will consist of (WQM Permit No. 4323411): From the dwelling the sewage flows to a new 1,000-gallon dual compartment concrete septic tank with a Zabel A300 effluent filter at the outlet end of the tank then through a NSF approved Premier Tech EC7-500-P-P Plastic Coco Filter then to a 1,000-gallon dual compartment concrete tank with a Norweco AT1500 UV disinfection unit.

There are no open violations in WMS for the subject Client ID (378286) as of 08/11/2023. 8/15/2023 CWY

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
Х		Dustin Hargenrater Dustin Hargenrater / Civil Engineer Trainee	August 11, 2023
X		Chad W. Yurisic Chad W. Yurisic, P.E. / Environmental Engineer Manager	8/15/2023

Discharge and Stream Data – 2 - Receiving Waters and PWS

ischarge, Receiving Water	s and Water Supply Inform	nation		
Outfall No. 001		Design Flow (MGD)0004		
Latitude 41° 6' 55.71"		Longitude	-80° 7' 7.60"	
Quad Name Slippery R	ock	Quad Code	41080A1	
Wastewater Description:	Sewage Effluent			
Unnar Receiving Waters (CWF	med Tributary to Black Run	Stream Code	34296	
NHD Com ID 12622	22123	 RMI	0.1400	
Drainage Area 0.042	8	Yield (cfs/mi²)	0.1	
Q ₇₋₁₀ Flow (cfs) 0.004	28	Q ₇₋₁₀ Basis	Default	
Elevation (ft) 1247		Slope (ft/ft)		
Watershed No. 20-C		Chapter 93 Class.	CWF	
Existing Use		Existing Use Qualifier		
Exceptions to Use		Exceptions to Criteria		
Assessment Status	Impaired			
Cause(s) of Impairment	CAUSE UNKNOWN			
Source(s) of Impairment	SOURCE UNKNOWN			
TMDL Status		Name		
Background/Ambient Data		Data Source		
_		Default		
pH (SU) <u>7.0</u> Temperature (°F) 68		Default - CWF		
Hardness (mg/L)		Delaut OVI		
Other:				
Nearest Downstream Publi	c Water Supply Intake	Pennsylvania American Wate	r Company - Ellwood City	
PWS Waters Slippery Rock Creek		Flow at Intake (cfs) 53.1		
PWS RMI 0.1		Distance from Outfall (mi)	33.4	

Changes Since Last Permit Issuance: N/A – This is a new discharge (Planning was approved June 9, 2023)

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 Coco Filter.

The Coco filter is reportedly capable of meeting CBOD5 averages of mg/l and TSS averages of mg/l.

In accordance with the SOP, no water quality modeling was performed since this is an 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.

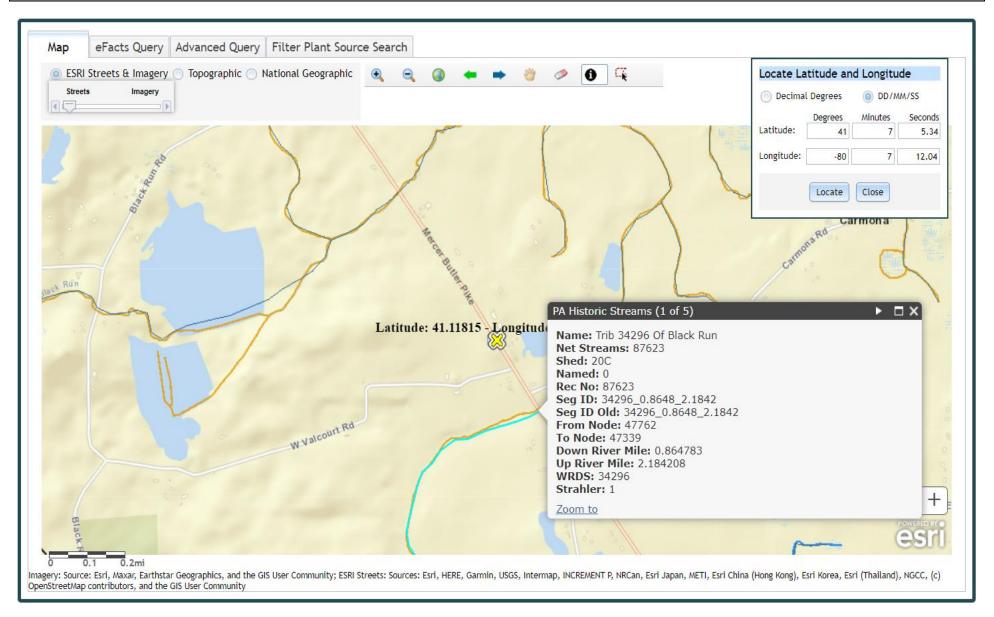
Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

	Effluent Limitations				Monitoring Requirements			
Parameter	Mass Units (lbs/day) (1)		Concentrations (mg/L)			Minimum ⁽²⁾	Required	
Faianietei	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
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	Upon Request	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.

Attachment 1 eMap – Location and Receiving Stream Data



Attachment 2 Google Earth – Site Imagery

