pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southcentral Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0261424**
Wastewater Type	**Sewage**	APS ID	**709836**
Facility Type	**SRSTP**	Authorization ID	**133514**

NPDES PERMIT FACT SHEET
INDIVIDUAL SFTF/SRSTP

Applicant, Facility and Project Information

Applicant Name	**Fannie B Beiler**	Facility Name	**Beiler Residence SRSTP**
Applicant Address	8512 Newburg Road Newburg, PA 17240	Facility Address	8512 Newburg Road Newburg, PA 17240
Applicant Contact	Fannie Beiler	Facility Contact	Fannie Beiler
Applicant Phone	(717) 423-5809	Facility Phone	(717) 423-5809
Client ID	278028	Site ID	729174
SIC Code	6514	Municipality	Lurgan Township
SIC Description	Fin, Ins & Real Est - Dwelling Operators, Except Apartments	County	Franklin
Date Application Received	November 10, 2020	WQM Required	No
Date Application Accepted	December 24, 2020	WQM App. No.	N/A
Project Description	NPDES Renewal.		

Summary of Review

This report supports the reissuance of an NPDES permit for discharge of treated sewage from the existing single residence sewage treatment plant (SRSTP) owned/operated by Ms. Fannie Beiler. The last permit renewal was reissued on October 27, 2015 and became effective on November 1, 2015. The permit expired on October 31, 2020.

Based on the review, it is recommended that the permit be drafted.

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		*Jinsu Kim* Jinsu Kim / Environmental Engineering Specialist	June 4, 2021
X		Maria D. Bebenek Daniel W. Martin, P.E. / Environmental Engineer Manager	June 9, 2021
X		Maria D. Bebenek Maria D. Bebenek, P.E. / Program Manager	June 9, 2021

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	0.0004
Latitude	40° 7’ 13.00”	Longitude	77° 35’ 43.00”
Quad Name	Shippensburg	Quad Code	1825
Wastewater Description:	Treated Sewage		
Receiving Waters	Clippingers Run	Stream Code	10568
NHD Com ID	56408931	RMI	0.45
Drainage Area	4.33	Yield (cfs/mi^2)	
Q_{7-10} Flow (cfs)		Q_{7-10} Basis	USGS StreamStats
Elevation (ft)	572	Slope (ft/ft)	
Watershed No.	7-B	Chapter 93 Class.	WWF, MF
Existing Use	None	Existing Use Qualifier	none
Exceptions to Use	None	Exceptions to Criteria	none
Assessment Status	Impaired		
Cause(s) of Impairment	Organic Enrichment/Low D.O., Nutrients		
Source(s) of Impairment	Agriculture		
TMDL Status	Final, 04/09/2001	Name	Conodoguinet Creek Watershed
Nearest Downstream Public Water Supply Intake	Carlisle Borough Municipal Authority		
PWS Waters	Conodoguinet Creek	Flow at Intake (cfs)	64.14
PWS RMI	35.95	Distance from Outfall (mi)	35.4

Drainage Area
The discharge is to Clippingers Run at RM 0.45. A drainage area upstream of the point of discharge is estimated to be 2.25 sq.mi. according to USGS StreamStats available at https://streamstats.usgs.gov/ss/.

Streamflow
USGS StreamStats produced a Q7-10 flow of 0.0126 cfs at the point of discharge.

Unnamed Tributary to Conodoguinet Creek
Clippingers Run is not listed in 25 Pa Code Chapter 93. This stream is a tributary of Paxton Run in which Chapter 93 classified the entire basin of Paxton Run as warm water fishes. No special protection water is therefore impacted by this discharge. No Class A Wild Trout Fishery is impacted by this discharge. Based on DEP’s 2020 integrated water quality report, Clippingers Run is impaired for organic enrichment/low DO and nutrients as a result of agricultural activities. The TMDL for Conodoguinet Creek watershed was developed in 2001; yet, this TMDL does not identify this facility as a source to the impairments, therefore no WLA was given to this facility.

Public Water Supply Intake
According to the fact sheet developed for the last permit issuance, the nearest downstream public water supply intake is Carlisle Borough located on the Conodoguinet Creek approximately 35 miles from the discharge. Given the distance and nature, the discharge is not expected to impact the water supply.

Compliance History	
Summary of DMRs:	AMRs submitted in 2017 were received. No AMRs after 2017 are available. According to the permittee, AMRs have been submitted every year. Operations Section has been notified of this information.
Summary of Inspections:	An inspection was performed via a phone call on April 27, 2020 by Brandon Bettinger, DEP Water Quality Specialist. The report indicates that the in-person inspection would be conducted for a later date.

Treatment Facility Summary

The facility is located in Lurgan Township, Franklin County. The treatment system which serves a single residence (400 GPD) consists of a 1,000 gallon two compartment septic tank with septic tank solids retainer (Polylok PL-525 filter or equivalent), a STB-650 Ecoflo peat filter, a 250 gallon chlorine contact tank with tablet chlorinator and the outfall.

Development of Effluent Limitations and Monitoring Requirements

The proposed 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). Based on the proposed requirements, the permittee will no longer be required to monitor for pH.

It is recommended that existing semi-annual monitoring requirements for flow measurement, CBOD5, TSS, and Fecal Coliform be reduced to 1/year. This proposed monitoring frequency is aligned with the requirements recommended by the SOP.

Facilities that are designed based on a flow of less than 2,000 GPD or considered as SRSTPs are exempt from the Bay requirements. Accordingly, it is not necessary for the permittee to perform nutrient monitoring.

No Class A Wild Trout Fishery is impacted by this discharge.

Unless specified otherwise in this fact sheet, all permit requirements have been developed as stringent as the existing permit requirements.

Existing Effluent Limitations and Monitoring Requirements

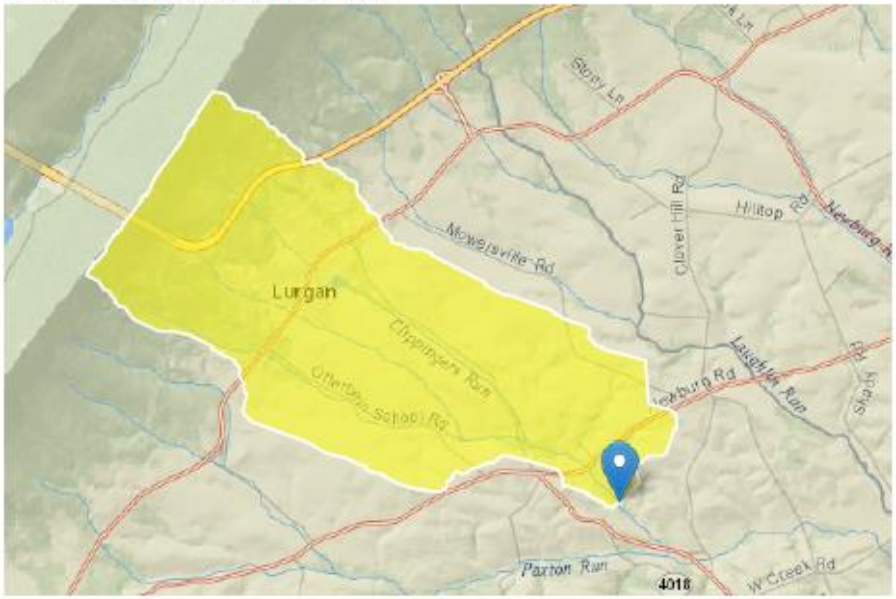
Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	2/year	Estimate
pH	XXX	XXX	6.0	XXX	XXX	9.0	1/month	Grab
Total Residual Chlorine	XXX	XXX	XXX	Report	XXX	XXX	1/month	Grab
CBOD5	XXX	XXX	XXX	10	XXX	20	2/year	Grab
Total Suspended Solids	XXX	XXX	XXX	10	XXX	20	2/year	Grab
Fecal Coliform (CFU/100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/year	Grab

Proposed Effluent Limitations and Monitoring Requirements

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Annual Average	Daily Maximum	Minimum	Annual Average	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	1/year	Estimate
Total Residual Chlorine	XXX	XXX	XXX	Report Average Monthly	XXX	XXX	1/month	Grab
CBOD5	XXX	XXX	XXX	10	XXX	20	1/year	Grab
Total Suspended Solids	XXX	XXX	XXX	10	XXX	20	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	1000	1/year	Grab

StreamStats Report

Region ID: PA
Workspace ID: PA20210602174328053000
Clicked Point (Latitude, Longitude): 40.12030, -77.59519
Time: 2021-06-02 13:43:45 -0400



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	4.32	square miles
PRECIP	Mean Annual Precipitation	39	inches
STRDEN	Stream Density -- total length of streams divided by drainage area	3.12	miles per square mile
ROCKDEP	Depth to rock	3.7	feet
CARBON	Percentage of area of carbonate rock	0	percent

6/2/2021 StreamStats

Low-Flow Statistics Parameters [Low Flow Region 2]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	4.32	square miles	4.93	1280
PRECIP	Mean Annual Precipitation	39	inches	35	50.4
STRDEN	Stream Density	3.12	miles per square mile	0.51	3.1
ROCKDEP	Depth to Rock	3.7	feet	3.32	5.65
CARBON	Percent Carbonate	0	percent	0	99

Low-Flow Statistics Disclaimers [Low Flow Region 2]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

Low-Flow Statistics Flow Report [Low Flow Region 2]

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.139	ft^3/s
30 Day 2 Year Low Flow	0.219	ft^3/s
7 Day 10 Year Low Flow	0.0443	ft^3/s
30 Day 10 Year Low Flow	0.0721	ft^3/s
90 Day 10 Year Low Flow	0.14	ft^3/s

Low-Flow Statistics Citations

Stuckey, M.H.,2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (http://pubs.usgs.gov/sir/2006/5130/)