

Application Type Renewal
Wastewater Type Sewage
Facility Type SFTF

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

Application No. PA0217174
APS ID 1068347
Authorization ID 1404780

Applicant, Facility and Project Information

Applicant Name	<u>Elmor R Ernst</u>	Facility Name	<u>Ernst SFTF</u>
Applicant Address	<u>268 Harrison Road</u> <u>Elizabeth, PA 15037-3037</u>	Facility Address	<u>268 Harrison Road</u> <u>Elizabeth, PA 15037-3037</u>
Applicant Contact	<u>Elmor Ernst</u>	Facility Contact	<u>Elmor Ernst</u>
Applicant Phone	<u></u>	Facility Phone	<u></u>
Client ID	<u>87488</u>	Site ID	<u>241150</u>
SIC Code	<u>6514</u>	Municipality	<u>Lincoln Borough</u>
SIC Description	<u>Fin, Ins & Real Est - Dwelling Operators, Except Apartments</u>	County	<u>Allegheny</u>
Date Application Received	<u>March 15, 2022</u>	WQM Required	<u>No</u>
Date Application Accepted	<u>August 1, 2022</u>	WQM App. No.	<u></u>
Project Description	<u>NPDES permit renewal.</u>		

Summary of Review


The PA Department of Environmental Protection (PADEP/Department) received an NPDES permit renewal application from Mr. Elmor R Ernst (permittee) on March 15, 2022. The treated effluent is discharged through Outfall 001 into an UNT to Wylie Run in State Watershed 19-C. The SFTF is located in Lincoln Borough, Allegheny County. The existing permit will expire on August 31, 2022. Renewal NPDES permit applications under Clean Water Program are not covered by PADEP's PDG per 021-2100-001.

This fact sheet is developed in accordance with 40 CFR §124.56

Changes in the permit: CBOD5 is replaced with BOD5, pH limits removed, seasonal fecal coliform is changed to year-round, TSS limits changed, and the permit type is changed from SRSTP to SFTF.

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
√		Reza H. Chowdhury, E.I.T. / Project Manager 	August 8, 2022
X		Pravin Patel Pravin C. Patel, P.E. / Environmental Engineer Manager	08/08/2022

Discharge and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.0008</u>
Latitude	<u>40° 17' 5"</u>	Longitude	<u>-79° 51' 8"</u>
Quad Name	<u>McKeesport</u>	Quad Code	<u>1607</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Wylie Run (WWF)</u>	Stream Code	<u>39534</u>
NHD Com ID	<u>99408442</u>	RMI	<u>0.28</u>
Drainage Area	<u>0.38</u>	Yield (cfs/mi ²)	<u>0.065</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.0247</u>	Q ₇₋₁₀ Basis	<u></u>
Elevation (ft)	<u></u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>19-C</u>	Chapter 93 Class.	<u>WWF</u>
Existing Use	<u></u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u>None</u>	Exceptions to Criteria	<u></u>
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>METALS, ORGANIC ENRICHMENT, SILTATION</u>		
Source(s) of Impairment	<u>ACID MINE DRAINAGE, RURAL (RESIDENTIAL AREAS), RURAL (RESIDENTIAL AREAS)</u>		
TMDL Status	<u>Name</u>		
Nearest Downstream Public Water Supply Intake	<u>MAWC-McKeesport</u>		
PWS Waters	<u>Monongahela River</u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u></u>	Distance from Outfall (mi)	<u></u>

Changes Since Last Permit Issuance: None

Other Comments:

Anti-Degradation Requirement

Chapter 93.4a(b) of the Department's rules and regulations require that "Existing instream water uses and the level of water quality necessary to protect the existing uses shall be maintained and protected." The discharge is into a stream segment designated as Warm-Water Fishes (WWF). No High-Quality Waters are impacted by this discharge. No Exceptional Value Waters are impacted by this discharge.

Class A Wild Trout Streams:

No Class A Wild Trout Fishery will be impacted by this discharge.

303d Listed Streams:

eMapPA shows the stream is impaired from AMD and Rural Runoff from residential areas. The facility doesn't contribute to existing AMD impairment. The effluent limits, terms, and conditions are imposed as such the discharge doesn't contribute to existing impairment from rural runoffs.

Compliance History	
Summary of AMRs:	The permittee submitted three AMRs for the periods August 2021-February 2022, February 2021-July 2021, and September 2019-March 2020. The reports indicate an average TRC of 1.4 mg/l, CBOD5 of <3.8 mg/l, TSS of 6.83, and Fecal Coliform <2.
Summary of Inspections:	CEI conducted on May 25, 2022. There was no flow at the time of inspection. The treatment system treats wastewater from two houses.

Other Comments:

Treatment Facility summary:

The application was submitted to renew an SFTF named Ernst SFTF located in 268 Harrison Road, Elizabeth, PA 15037. This SFTF receives and treats an average of 800 GPD of sewage from two adjoining properties and discharges the disinfected effluent into an UNT to Wylie Run (WWF) in state watershed 19-C through Outfall 001.

The CEI indicated the treatment system consists of a dual compartment septic tank, a dosing tank, a subsurface sand filter, erosion chlorinator, and chlorine contact tank.

The septic tank was pumped August 2016 and October 2019 by A-Affordable Sanitation, Inc.

The facility was permitted for treatment of up to 800 GPD per day. The WQM permit that authorized construction of the facility indicated the facility was approved to treat effluent from two adjacent houses. However, since until now only one house was connected, occupied, and discharged to the treatment plant, the facility was treated as SRSTP. However, the permit writer for this renewal requested the ACHD to verify the occupancy status of the other house. It was discovered that the other house is also occupied and discharging into the treatment plant. When more than one house is connected to a SRSTP, the SRSTP is considered as SFTF. Therefore, from this renewal, the facility will be treated as SFTF in terms of fees. It is the opinion of the permit writer that the existing monitoring frequency of 1/6 months should be sufficient, however, the limits will be changed to reflect the recommended limitations in SOP BCW-PMT-003, revised May 17, 2019.

Development of effluent limitations:

Flow monitoring:

Flow monitoring will be continued in this renewal in accordance with DEP's SOP BCW-PMT-003 revised May 17, 2019. The reporting frequency set forth is 1/6 months and sample type is Estimate.

Biochemical Oxygen Demand (BOD₅)

The existing average annual CBOD₅ limit of 25 mg/l and IMAX limit of 50 mg/l will be replaced by BOD₅ limits of 10 mg/l as semi-annual average and 20 mg/l as IMAX. These limits are consistent with the SOP. A review of submitted AMRs show the facility is consistently discharging at a concentration <3.8 mg/l.

Total Suspended Solids (TSS)

The existing average annual TSS limit of 30 mg/l and IMAX limit of 60 mg/l will be changed to 10 mg/l as semi-annual average and 20 mg/l as IMAX.

Fecal Coliform:

Current permit has seasonal fecal coliform limits which will be changed to 200/100 ml year-round. This is consistent with the SOP.

pH:

Existing permit has pH limits. pH is not required to be monitored for SFTFs. It is recommended that the existing pH limits be removed per provision 40 CFR § 402(o)(2)(B)(ii)

Total Residual Chlorine:

Existing permit has 0.5 mg/l as average monthly 0.5 mg/l and IMAX limit of 1.6 mg/l. These limits are recommended to be carried over.

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	Semi-Annual Average	Maximum	Instant. Maximum		
Flow (MGD)	Report SEMI AVG	XXX	XXX	XXX	XXX	XXX	1/6 months	Estimate
TRC	XXX	XXX	XXX	Report Avg Mo	XXX	Report	1/month	Grab
BOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/6 months	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/6 months	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	Report	1/6 months	Grab

Compliance Sampling Location: At Outfall 001

Other Comments: None