

Application Type New
Wastewater Type Sewage
Facility Type SFTF

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

Application No. PA0245241
APS ID 1028710
Authorization ID 1336569

Applicant, Facility and Project Information

Applicant Name	<u>Rittenhouse Aaron</u>	Facility Name	<u>18 Rosenberger Dr</u>
Applicant Address	<u>18 Rosenberger Drive</u> <u>Perkasie, PA 18944-2838</u>	Facility Address	<u>18 Rosenberger Drive</u> <u>Perkasie, PA 18944-2838</u>
Applicant Contact	<u>Aaron Rittenhouse</u>	Facility Contact	<u>Aaron Rittenhouse</u>
Applicant Phone	<u>(267) 640-1132</u>	Facility Phone	<u>(267) 640-1132</u>
Client ID	<u>360015</u>	Site ID	<u>844326</u>
SIC Code	<u>4952</u>	Municipality	<u>Hilltown Township</u>
SIC Description	<u>Trans. & Utilities - Sewerage Systems</u>	County	<u>Bucks</u>
Date Application Received	<u>December 8, 2020</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>Not Applicable</u>	WQM App. No.	<u>0920407</u>
Project Description	<u>New SFTF to replace malfunctioning on-site septic system.</u>		

Summary of Review

The permit limits in this permit are consistent with the Standard Operating Procedures New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications, SOP No. BCW-PMT-003, Revised May 17, 2019, Version 1.8. The monitoring frequency for the majority of the parameters were lowered from 1/month to 1/quarter due to the low flowrate from this facility. pH, DO and ammonia are added to the permit limits as these are standard parameters in individual permits. Total Nitrogen monitoring was added due to the Point of First Use (POFU) report and planning approval requiring a nitrogen reducing facility. The application lists expected effluent values that are consistent with the proposed permit limitations.

The property contains two (2) dwellings which makes this a Small Flow Treatment Facility (SFTF). The treatment facility will replace a malfunctioning on-lot sewage disposal system. The treatment facility will consist of septic tank with effluent filter at each dwelling (primary treatment), the flow will then combine and go to an EcoFlow ECDn1000C biofilter for secondary treatment with nitrogen removal then UV disinfection and discharge to the stream. The Ecoflo ECDn series is NSF 245 rated.

537 Plan revision was approved on October 29, 2020 (DEP Code No. 1-09924-426-3s) for 800 gallons per day (gpd) to an intermittent stream that is tributary to Morris Run. The letter notes that approval is contingent upon a nitrogen reducing treatment component that meets NSF 245 criteria.

A Point of First Use (POFU) study was completed on March 27, 2019 by a DEP Biologist. The POFU was determined to be upstream of the discharge location. The flow in the channel was determined to be intermittent at the discharge location.

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-

Approve	Deny	Signatures	Date
X		Harmonie Hawley, PhD, PE / Environmental Engineer /s/	January 19, 2021
X		Pravin C. Patel, P.E. / Environmental Engineer Manager /s/	01/19/2021

Summary of Review

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.

Act 14 Notifications:

Bucks County received 11-16-2020

Hilltown Township received 11-16-2020

Proposed Part C Conditions:

- A. AMR to DEP
- B. DMR to DEP if Attached
- C. 1/year Measure Depth of Septage and Scum
- D. Septic Tanks Pumped Once Every Three Years
- E. Total Residual Chlorine Requirement
- F. No Stormwater
- G. Necessary Property Rights
- H. Proper Sludge Disposal
- I. Abandon STP when Municipal Sewers Available

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>.0008</u>
Latitude	<u>40° 20' 25.61"</u>	Longitude	<u>-75° 13' 35.46"</u>
Quad Name	<u>Doylestown</u>	Quad Code	<u>1644</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Morris Run (TSF, MF)</u>	Stream Code	<u>01277</u>
NHD Com ID	<u>25970404</u>	RMI	<u>1.1400</u>
Drainage Area	<u>0.44 square miles</u>	Yield (cfs/mi ²)	<u>0.026</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.00114 cfs</u>	Q ₇₋₁₀ Basis	<u>USGS PA Streamstats</u>
Watershed No.	<u>3-E</u>	Chapter 93 Class.	<u>TSF, MF</u>
Existing Use	<u>Aquatic Life</u>	Existing Use Qualifier	<u>Not Applicable</u>
Exceptions to Use	<u>None</u>	Exceptions to Criteria	<u>None</u>
Assessment Status	<u>Attaining Use(s)</u>		
TMDL Status	<u>Not Applicable</u>	Name	<u>Not Applicable</u>
Nearest Downstream Public Water Supply Intake		Not Applicable, small tributary	

Changes Since Last Permit Issuance: None, new permit

Other Comments: The discharge is to an intermittent stream that is tributary to Morris Run. The information provided in the above table is for Morris Run near the point of confluence.

Compliance History	
Summary of DMRs:	Not Applicable
Summary of Inspections:	Not Applicable

Other Comments: This is a new facility.

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 Quarterly	Average Weekly	Minimum	Average Quarterly	Maximum	Instant. Maximum		
Flow (gpd)	Report	XXX	XXX	XXX	XXX	XXX	1/quarter	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/quarter	Grab
DO	XXX	XXX	5.0 Inst Min	XXX	XXX	XXX	1/quarter	Grab
BOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/quarter	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/quarter	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX	1/quarter	Grab
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	1/quarter	Grab
Ammonia	XXX	XXX	XXX	Report	XXX	XXX	1/quarter	Grab
UV Dosage (mWsec/cm ²)	XXX	XXX	XXX	Report Avg Mo	XXX	XXX	1/month	Measured

Compliance Sampling Location: Outfall 001

Other Comments: None