

Application Type Renewal
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0266493
APS ID 936491
Authorization ID 1425694

Applicant, Facility and Project Information

Applicant Name	<u>Daniel Dryja</u>	Facility Name	<u>Dryja Residence</u>
Applicant Address	<u>124 Rattlesnake Hill Road</u> <u>Boyertown, PA 19512-7537</u>	Facility Address	<u>124 Rattlesnake Hill Road</u> <u>Boyertown, PA 19512</u>
Applicant Contact	<u>Daniel Dryja</u> <u>(484) 949-4820/</u> <u>nosurrender52600@gmail.com</u>	Facility Contact	<u>Daniel Dryja</u>
Applicant Phone	<u>334340</u>	Facility Phone	<u>(484) 949-4820</u>
Client ID	<u>8811</u>	Site ID	<u>817631</u>
SIC Code	<u>Services - Private Households</u>	Municipality	<u>Douglass Township</u>
SIC Description	<u>January 31, 2023</u>	County	<u>Berks</u>
Date Application Received	<u>March 6, 2023</u>	WQM Required	<u>N/A – 0617404 already issued</u>
Date Application Accepted		WQM App. No.	<u>-</u>
Project Description	<u>Renewal of NPDES permit for a SRSTP (Single Residence Sewage Treatment Plant) - expired</u>		

Summary of Review

The previous NPDES permit was issued June 23, 2017 with an expiration date of June 30, 2022. The renewal application was not submitted by the due date. Clean Water Compliance staff granted an extension of time to submit the renewal application. A partial renewal application was received by U.S. mail on January 30, 2023 with additional application pieces received by email on January 30, 2023 and on February 22, 2023.

The treated discharge flows into a dry swale, travels over a neighbor's property and into the neighbor's pond which overflows to a roadside swale which discharges to an unnamed tributary of the Schuylkill River.

The draft permit limits are consistent with the limits in DEP's Standard Operating Procedures for 'New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications' and with other individual NPDES permits issued to Single Family Residence Sewage Treatment Plants (SRSTPs)—including no limits for pH and including using an 'annual average' sample type for Fecal Coliform according to WMS templates for SRSTPs. (WMS is DEP's software.)

Pumping records were not submitted with the application. When requested, the permittee replied his Service Provider in 2022 had told him the tanks did not yet need pumping but he anticipated that they would need it and would be pumped in 2023. The AMR due June 30, 2024 will inform DEP whether the tanks were indeed pumped. Because the previous permit has expired, DEP is proceeding with issuance of the draft permit.

This permit was not changed to a general permit, DEP's PAG-04 for Small Flow Treatment Facilities, for the following reason(s):

1. An agreement between the property owner and Douglass Township exists (The Installation and Maintenance Agreement for a Dry Stream Discharge Wastewater Disposal System) which requires testing of the effluent for BOD5, TSS, and Fecal Coliform with the results submitted yearly to the Township "on the annual anniversary date of the permit effective date". This agreement was a condition of DEP's Planning Approval.

Approve	Deny	Signatures	Date
x		<i>Bonnie Boylan</i> Bonnie Boylan / Environmental Engineering Specialist	May 3, 2024
x		<i>Maria D. Bebenek for</i> Daniel W. Martin, P.E. / Environmental Engineer Manager	May 15, 2024

Summary of Review

2. The discharge of treated sewage from this facility flows into a dry swale which flows over a neighbor's property and into the neighboring property's pond. (Because of this, the part C condition warning of nuisance conditions was included in the previous NPDES permit and in the draft renewal permit.)
3. The effluent samples have not been in compliance with the permit limits for three out of the past four years.

Note: no Total Nitrogen or Total Phosphorus limits were included in the previous NPDES permit because a) DEP's hydrogeologist had confirmed that stormwater also drains to the neighbor's pond, b) SRSTP's are exempt from the Advanced Treatment recommended limits in DEP's Dry Stream Guidance [386-2000-013], c) SRSTP's that are replacing a failing onlot system, as this one was, are exempt from recommended limits in DEP's Implementation Guidance for Section 95.6 Management of Point Source Phosphorous Dischargers to Lakes, Ponds, and Impoundments [386-2000-009], and d) there were no drinking water wells within 50' of the discharge or within 50' of the neighbor's pond. A non-discharge analysis and a Preliminary Hydrogeologic Study were submitted before DEP's sewage planning approval was granted.

Outstanding Violations:

None per DEP's Power BI Report Compliance History Report by Client, as of May 3, 2024.

Delaware River Basin Commission (DRBC)

This facility discharges to a stream within the Delaware River water basin. In accordance with regulations and an interagency memo between DEP and DRBC, the draft permit and Fact Sheet will therefore be forwarded to DRBC. However, the discharge is below DRBC's reviewable project thresholds.

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.

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.0004</u>
Latitude	<u>40° 16' 10"</u>	Longitude	<u>-75° 41' 13"</u>
Quad Name	<u></u>	Quad Code	<u></u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Schuylkill River (WWF, MF)</u>	Stream Code	<u>(Swale to) UNT 01710</u>
NHD Com ID	<u>25964664</u>	RMI	<u>2.1, estimated</u>
Drainage Area	<u></u>	Yield (cfs/mi ²)	<u></u>
Q ₇₋₁₀ Flow (cfs)	<u></u>	Q ₇₋₁₀ Basis	<u></u>
Elevation (ft)	<u></u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>3-D</u>	Chapter 93 Class.	<u>WWF, MF</u>
Existing Use	<u>N/A</u>	Existing Use Qualifier	<u>N/A</u>
Exceptions to Use	<u>N/A</u>	Exceptions to Criteria	<u>N/A</u>
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	<u></u>		
Source(s) of Impairment	<u></u>		
TMDL Status	<u></u>	Name	<u></u>
Background/Ambient Data		Data Source	
pH (SU)	<u></u>		<u></u>
Temperature (°F)	<u></u>		<u></u>
Hardness (mg/L)	<u></u>		<u></u>
Other:	<u></u>		<u></u>
Nearest Downstream Public Water Supply Intake	<u>Pottstown Water Authority</u>		
PWS Waters	<u>Schuylkill River</u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u>57</u>	Distance from Outfall (mi)	<u>2.1</u>

Other Comments:

The UNT 01710 enters the Schuylkill River at approximately 57 RMI (in Montgomery County).

The receiving water is not Class A trout or Wilderness Trout (PA Fish and Boat designations).

PREVIOUS PERMIT LIMITS:

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Max.	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/year	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 Geo Mean	XXX	XXX	1/year	Grab

Compliance History	
Summary of AMRs:	<p>Reporting period 6/1/2022-5/31/2023. Service Provider signature on AMR. Per Service Provider: tanks need pumping. TSS sample and Fecal Coliform samples were above permit limits. TSS was 14.9 mg/l, Fecal Coliform was 387 MPN/100 mL. (Sample collected 5/2023; only the one sample was reported).</p> <p>Reporting period 6/1/2021-5/31/2022. Service Provider signature on AMR. Per Service Provider: nothing needed. Sample results from 5/3/2022 were all less than permit limits.</p> <p>Reporting period 6/1/2020-5/31/2021. Service Provider inspection report attached to AMR, dated 7/1/2021: recommend pumping tanks during 2021; UV light sleeve is in need of replacement in future. Sampling results from 7/1/2021 sample (only one sample was reported): BOD was 44 mg/l, above the permit limit; TSS was 11 mg/l, above the permit limit; Fecal Coliform sample was >2419.6 MPN/100 mL, above the permit limit.</p>
Summary of Inspections:	<p>12/4/2020 – Admin. Review. No violation issued. Owner reminded that depth of septage and scum in treatment units must be measured at least once per year and septic tanks pumped at least every three years. UV bulb replaced in May 2020 per AMR for June 1, 2019-May 31, 2020 . Sample results for BOD, TSS, and Fecal Coliform exceeded permit limits: 15.8 mg/l BOD5, 16 mg/l TSS, 1200 CFU/100 mL for Fecal.</p> <p>4/30/2019 – No violations. System was installed June 2018. Not discharging at time of inspection. No solids, foam, debris at outfall 001.</p>

Notice of Violation was issued April 4, 2022:

NPDES renewal application was due and has not been received.

Notice of Violation was issued November 2, 2022:

The NPDES permit has expired. Discharging without permit authorization is a violation of the Clean Streams Law and state regulations.

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 as needed and BPJ. Instantaneous Maximum (IMAX) limits are generally 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	Instant. Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
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 Annl Avg	XXX	XXX	1/year	Grab

Compliance Sampling Location: at outfall 001