

Application Type Renewal
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0266175
APS ID 996426
Authorization ID 1326358

Applicant, Facility and Project Information

Applicant Name	<u>Nathan Pompei</u>	Facility Name	<u>Pompei Residence</u>
Applicant Address	<u>99 Rattlesnake Hill Road</u> <u>Boyertown, PA 19512</u>	Facility Address	<u>99 Rattlesnake Hill Road</u> <u>Boyertown, PA 19512-7536</u>
Applicant Contact	<u>Nathan Pompei</u>	Facility Contact	<u>Nathan Pompei</u>
Applicant Phone	<u>(267) 772-4393</u>	Facility Phone	<u>(267) 772-4393</u>
Client ID	<u>350882</u>	Site ID	<u>786597</u>
SIC Code	<u>8811</u>	Municipality	<u>Douglass Township</u>
SIC Description	<u>Services - Private Households</u>	County	<u>Berks</u>
Date Application Received	<u>September 2, 2020 (incomplete) & June 29, 2021</u>	WQM Required	<u>Already issued: #0615406</u>
Date Application Accepted	<u>July 1, 2021</u>	WQM App. No.	<u>-</u>
Project Description	<u>Renewal of expired SRSTP permit</u>		

Summary of Review

The existing NPDES permit for this Single Residence Small Flow Treatment Plant (SRSTP) was issued May 1, 2016 and expired April 30, 2021. The permit was transferred to new owners on July 26, 2019—although the sale of the house and sewage system occurred at the end of 2016 according to the previous owner.

The SRSTP replaced a failing on-lot system. Because the SRSTP design was not one of the designs in the DEP's Small Flow Treatment Manual, it was not eligible for coverage under DEP's general permit (PAG-04) for small flow treatment facilities.

Sewage Planning Approval: A3-06930-113-3S, November 6, 2014.

According to DEP's eMapPA, the receiving water is not High Quality, Exceptional Value, Class A Trout, Wild Trout, or DRBC special protection water. The receiving water, an unnamed tributary of the Schuylkill River, has a designated use of Warm Water Fishes. According to eMapPA, the receiving water is attaining uses.

The proposed limits are consistent with DEP's Standard Operating Procedures for New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications, dated May 17, 2019, and other SRSTP permits issued by DEP. There are no Total Residual Chlorine limits because the treatment system includes UV disinfection.

No eDMR registration is required for SRSTPs. AMRs alone are required for this facility, not Discharge Monitoring Reports (DMRs) or eDMRs.

Compliance

AMRs have been received. Pump out records have been received. The last DEP 'inspection' by Operations staff was February 10, 2021 but it was an Administrative Review rather than a site visit. The last site inspection occurred on April 30, 2019: "No solids or debris at outfall. Minimal algae growth. No discharge during inspection. All O&M manuals were present onsite."

Approve	Deny	Signatures	Date
x		<i>Bonnie J. Boylan</i> Bonnie J. Boylan / Environmental Engineering Specialist	July 1, 2021
x		<i>Maria D. Bebenek</i> for Daniel W. Martin Daniel W. Martin, P.E. / Environmental Engineer Manager	July 6, 2021

Summary of Review

Note: the permittee has not always met their permit limits. Sampling results have been forwarded to Clean Water DEP Operations. The WQM permit issued by DEP in 2016 was for an Orenco AX20-RT system with concrete septic tank, textile media, recirculating pump, and Orenco UV unit. The Orenco AX-20 system was approved by PA as an alternate on-lot sewage treatment system and has demonstrated in field testing its ability to achieve effluent with ≤ 10 mg/l of BOD5, ≤ 10 mg/l of TSS. The Orenco UV unit has demonstrated the ability to achieve fecal coliform concentrations ≤ 200 CFU/100 mL.

Outstanding Violations

DEP's eFacts database does not show any outstanding violations.

Delaware River Basin Commission (DRBC)

Because the discharge occurs within the Delaware River water basin, the draft permit and fact sheet will be shared with the DRBC in accordance with State regulations and an interagency agreement.

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>.0004</u>
Latitude	<u>40° 16' 2"</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) 25965708 (pre-populated) / 25964664 (NHD & designated use)</u>	Stream Code	<u>01710 (PA Historic)</u>
NHD Com ID	<u>25964664 (NHD & designated use)</u>	RMI	<u>2.0 for 01710</u>
Drainage Area	<u>0.041 per 2016 Fact Sheet</u>	Yield (cfs/mi ²)	<u>0.03 per 2016 Fact Sheet</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.00112 per 2016 FactSheet</u>	Q ₇₋₁₀ Basis	<u>PA Stream Stats</u>
Elevation (ft)	<u>330 approx</u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>3-D</u>	Chapter 93 Class.	<u>WWF, MF</u>
Existing Use	<u>-</u>	Existing Use Qualifier	<u>-</u>
Exceptions to Use	<u>-</u>	Exceptions to Criteria	<u>-</u>

Assessment Status Attaining Use(s)

Cause(s) of Impairment

Source(s) of Impairment

TMDL Status Name

Background/Ambient Data	Data Source
pH (SU)	<u></u>
Temperature (°F)	<u></u>
Hardness (mg/L)	<u></u>
Other:	<u></u>

Nearest Downstream Public Water Supply Intake

PWS Waters	<u></u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u></u>	Distance from Outfall (mi)	<u></u>

Changes Since Last Permit Issuance:

Other Comments:

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
	Annual Average	Average Weekly	Minimum	Annual Average	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	XXX	XXX	1/year	Grab

Compliance Sampling Location: at discharge from facility