

Application Type Renewal  
Wastewater Type Sewage  
Facility Type SRSTP

## NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

Application No. PA0245062  
APS ID 1127298  
Authorization ID 1509292

### Applicant, Facility and Project Information

Applicant Name	<u>Petrondi Richard</u>	Facility Name	<u>3141 Hollow Rd SRSTP</u>
Applicant Address	<u>3141 Hollow Road</u> <u>Malvern, PA 19355</u>	Facility Address	<u>3141 Hollow Road</u> <u>Malvern, PA 19355</u>
Applicant Contact	<u>Richard &amp; Helen Petrondi</u>	Facility Contact	<u>Richard Petrondi</u>
Applicant Phone	<u></u>	Facility Phone	<u></u>
Client ID	<u>346014</u>	Site ID	<u>828580</u>
SIC Code	<u>1521</u>	Municipality	<u>Charlestown Township</u>
SIC Description	<u>Construction - Single-Family Housing</u> <u>Construction</u>	County	<u>Chester</u>
Date Application Received	<u>November 21, 2024</u>	WQM Required	<u></u>
Date Application Accepted	<u></u>	WQM App. No.	<u></u>
Project Description	<u>Renewal</u>		

### Summary of Review

The PA Department of Environmental Protection (PADEP/Department) received a NPDES renewal application to discharge 400 gallons per day (gpd) of treated sewage from 3 -bedroom single residence sewage treatment plant (SRSTP) to an Unnamed Tributary of Pickering Creek a designated High Quality – Trout Stocking Fishes (HQ – TSF) under chapter 93 in watershed 3-E. The proposed facility is located in 3141 Hollow Road, Malvern, PA 19355.

Treatment system consists of 1,000-gallon dual compartment septic tank w/Polylok PL 625 filter, 500-gallon time-dosed pump tank, EcoFlo EC7-500-P-P biofilter/pump tank, Salco 3G ultraviolet disinfection unit, 4" PVC discharge channel with rip-rap.

The effluent limitations and monitoring requirements are derived from the Department's Standard Operating Procedure (SOP) for New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications (SOP No. BPNPSM-PMT-003).

#### CBOD<sub>5</sub> & NH<sub>3</sub>-N:

Since the receiving stream is designated as HQ-TSF, DEP's Antidegradation Policy is applicable to this site. Therefore, effluent limitations of CBOD<sub>5</sub> (10 mg/l) and NH<sub>3</sub>-N (5mg/l) are added to the permit. Minimum measuring frequency for all permit parameters, will be required once per year with exception to winter months. BOD<sub>5</sub> is replaced with CBOD<sub>5</sub>.

#### 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

Approve	Deny	Signatures	Date
x		<i>Vasantha</i> Vasantha Palakurti / Environmental Engineering Specialist	December 23, 2024
		Pravin C. Patel, P.E. / Environmental Engineer Manager	

Summary of Review

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 and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	.0004
Latitude	40° 4' 43.96"	Longitude	-75° 33' 52.91"
Quad Name	Malvern	Quad Code	1841
Wastewater Description: Sewage Effluent			
Receiving Waters	Unnamed Tributary to Pickering Creek	Stream Code	01519
NHD Com ID	25980314	RMI	1.5000
Drainage Area	0.37 mi <sup>2</sup>	Yield (cfs/mi <sup>2</sup> )	
Q <sub>7-10</sub> Flow (cfs)	0.0362	Q <sub>7-10</sub> Basis	Pennsylvania StreamStats
Elevation (ft)	498.2	Slope (ft/ft)	4.5
Watershed No.	03D	Chapter 93 Class.	High Quality Waters - Trout Stocking, Mi
Existing Use	None	Existing Use Qualifier	N/A
Exceptions to Use	None	Exceptions to Criteria	N/A
Assessment Status	Impaired		
Cause(s) of Impairment	Cause Unknown		
Source(s) of Impairment	Urban Runoff/Storm Sewers		
TMDL Status	None proposed	Name	N/A
Nearest Downstream Public Water Supply Intake – There is no public water supply intake located downstream of the discharge point.			

Changes Since Last Permit Issuance: No changes to the facility since last renewal.

**Development of Effluent Limits:**

The SRSTP discharges into the Pickering Creek which is designated as High Quality – Trout Stocking Fishes (HQ-TSF), Migratory Fishes (MF).

**CBOD<sub>5</sub> & NH<sub>3</sub>-N:**

Since the receiving stream is designated as HQ-TSF, DEP's Antidegradation Policy is applicable to this site. Therefore, effluent limitations of CBOD<sub>5</sub> (10 mg/l) and NH<sub>3</sub>-N (5mg/l) are added to the permit. Minimum measuring frequency for all permit parameters, will be required once per year with exception to winter months.

**Flow, BOD<sub>5</sub>, TSS and Fecal Coliform:**

Limits for above mentioned parameters are derived from Standard Operating Procedure for New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications (SOP No. BCW-PMT-003). Minimum measuring frequency for all permit parameters will be required once per year in accordance with the SOP. BOD<sub>5</sub> is replaced with CBOD<sub>5</sub>.

**Total Suspended Solids:**

The average monthly effluent limit for TSS is 20 mg/l per ABACT. The DEP's SOP (SOP No. BCW-PMT-003) limitations are more stringent than the ABACT, therefore TSS of 10 mg/l is added to the permit.

pH: 9 STD units) is added to the perm

**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) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum		
Flow (GPD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9	1/year	Grab
CBOD5 Nov 1 - Apr 30	XXX	XXX	XXX	20.0	XXX	40	Upon request	Grab
CBOD5 May 1 - Oct 31	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
Fecal Coliform (CFU/100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	XXX	1/year	Grab
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	15.0	XXX	30	Upon request	Grab
Ammonia May 1 - Oct 31	XXX	XXX	XXX	5.0	XXX	10	1/year	Grab