

Summary of Review

Per the previously provided justification from the previous renewal;

- 1) Low flow that occurs primarily on Sunday with considerably lower flows the rest of the week
- 2) Effluent discharges over a field prior for approximately 200 feet prior to Tohickon Creek
- 3) No compliance issues

Per the site inspection on 10/27/2022, the site seems to be in good condition.

The discharge is upstream of Lake Nockamixon, which is impaired for nutrients. The Total Maximum Daily Load (TMDL) for Lake Nockamixon, dated March 10, 2003, required a phosphorus limit of 0.5 mg/l, which was the limit since 1992. Tohickon Creek is impaired for agriculture/nutrients and removal of vegetation/siltation. It is not listed as impaired for point sources.

Act 14 Notification

Bucks County: 7/6/2023
Richland Township: 7/6/2023

Special Conditions:

- TRC Minimization
- Proper sludge disposal
- Annual Maintenance Report Requirements

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 and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.00125</u>
Latitude	<u>40° 26' 26.52"</u>	Longitude	<u>-75° 18' 39.60"</u>
Quad Name	_____	Quad Code	<u>1543</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Tohickon Creek (TSF, MF)</u>	Stream Code	<u>03110</u>
NHD Com ID	<u>26053402</u>	RMI	<u>23.1</u>
Drainage Area	<u>23 mi2</u>	Yield (cfs/mi ²)	<u>0.022 cfsm</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.517 cfs</u>	Q ₇₋₁₀ Basis	<u>Previous WQPR</u>
Elevation (ft)	<u>487</u>	Slope (ft/ft)	<u>0.0025</u>
Watershed No.	<u>2-D</u>	Chapter 93 Class.	<u>TSF, MF</u>
Existing Use	_____	Existing Use Qualifier	_____
Exceptions to Use	_____	Exceptions to Criteria	_____
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>NUTRIENTS, SILTATION</u>		
Source(s) of Impairment	<u>AGRICULTURE, REMOVAL OF RIPARIAN VEGETATION</u>		
TMDL Status	_____	Name	_____
Background/Ambient Data	_____	Data Source	_____
pH (SU)	_____		_____
Temperature (°F)	_____		_____
Hardness (mg/L)	_____		_____
Other:	_____		_____
Nearest Downstream Public Water Supply Intake _____			
PWS Waters	_____	Flow at Intake (cfs)	_____
PWS RMI	_____	Distance from Outfall (mi)	_____

Changes Since Last Permit Issuance:

Other Comments:

Compliance History	
Summary of DMRs:	Fecal Coliform has gone over the limit a few times, but overall, the sampling results seem to be under control.
Summary of Inspections:	No compliance issue

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
	Average Monthly	Average Weekly	Minimum	Average Quarterly	Maximum	Instant. Maximum		
Flow (GPD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
DO	XXX	XXX	4.0 Inst Min	XXX	XXX	XXX	1/month	Grab
TRC	XXX	XXX	XXX	1.0 Avg Mo	XXX	2.0	1/month	Grab
CBOD5 Oct 1 - Mar 31	XXX	XXX	XXX	25.0	XXX	50	1/quarter	Grab
CBOD5 Apr 1 - Sep 30	XXX	XXX	XXX	15.0	XXX	30	1/quarter	Grab
TSS	XXX	XXX	XXX	30.0	XXX	60	1/quarter	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	1000	1/quarter	Grab
Ammonia Oct 1 - Mar 31	XXX	XXX	XXX	7.5	XXX	15	1/quarter	Grab
Ammonia Apr 1 - Sep 30	XXX	XXX	XXX	2.5	XXX	5	1/quarter	Grab
Total Phosphorus	XXX	XXX	XXX	0.5	XXX	1	1/quarter	Grab

Compliance Sampling Location:

Other Comments: