





Application No.	<b>PA0231711</b>
APS ID	<b>1106432</b>
Authorization ID	<b>1471212</b>

Approve	Deny	Signatures	Date
X		 Jonathan P. Peterman / Project Manager	February 7, 2025
X		 Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	February 10, 2025

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	0.0004
Latitude	41° 11' 41.16"	Longitude	-77° 7' 34.71"
Quad Name	Linden	Quad Code	0928
Wastewater Description:		Sewage Effluent	
Receiving Waters	Unnamed Tributary to Bender Run (HQ-CWF)	Stream Code	20956
NHD Com ID	66916893	RMI	1.0
Drainage Area	-	Yield (cfs/mi <sup>2</sup> )	-
Q <sub>7-10</sub> Flow (cfs)	-	Q <sub>7-10</sub> Basis	-
Elevation (ft)	-	Slope (ft/ft)	-
Watershed No.	10-A	Chapter 93 Class.	CWF
Existing Use	HQ-CWF	Existing Use Qualifier	-
Exceptions to Use	None.	Exceptions to Criteria	None.
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment	N/A		
Source(s) of Impairment	N/A		
TMDL Status	N/A	Name	N/A
Nearest Downstream Public Water Supply Intake	PA American Water White Deer		
PWS Waters	West Branch of Susquehanna River	Flow at Intake (cfs)	682
PWS RMI	10.5	Distance from Outfall (mi)	36.5

Changes Since Last Permit Issuance: None.

Other Comments: None.

**Treatment Facility Summary**

**Treatment Facility Name:** Dorothy & Howard Smith SRSTP

Waste Type	Degree of Treatment	Process Type	Disinfection	Design Flow (MGD)
Sewage	Secondary	Septic Tank Sand Filter	Hypochlorite	0.0004
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.0004	--	Not Overloaded	None.	Other WWTP.

**Treatment System Components:**

- One (1) 1,000-Gallon Septic Tank.
- One (1) Distribution Box.
- One (1) 600 ft<sup>2</sup> Sand Filter.
- One (1) Erosion Tablet Chlorinator.
- One (1) Chlorine Contact Tank.
- One (1) Outfall 001.

Changes Since Last Permit Issuance: N/A.

Other Comments: None.

**Existing Effluent Limitations and Monitoring Requirements**

**Existing PAG-04 Limits – Outfall 001**

Parameter	Concentration Limitations		Monitoring Requirements	
	Monthly Average	IMAX	Minimum Measurement Frequency <sup>(1)</sup>	Required Sample Type
Flow (GPD)	Report	Report	Upon Request	Estimated <sup>(3)</sup>
BOD <sub>5</sub> (mg/l)	10	20	Upon Request	Grab
Total Suspended Solids (TSS) (mg/l)	10	20	Upon Request	Grab
Total Residual Chlorine (TRC) (mg/l) <sup>(2)</sup>	Report	Report	1/month	Grab
pH (S.U.)	Between 6.0 and 9.0 at all times		Upon Request	Grab
Fecal Coliform (No./100 mL)	200 Geo Mean	XXX	Upon Request	Grab

\*The existing effluent limits for Outfall 001 were based on a design flow of 0.0004 MGD.

**Chesapeake Bay Requirements**

Facilities that are designed based on a flow of less than 2,000 GPD (400 GPD design flow for this facility) are not a part of Pennsylvania's Chesapeake Bay Tributary Strategy. Accordingly, it is not practicable to require the permittee to perform nutrient monitoring.

**Anti-Backsliding**

In accordance with 40 CFR 122.44(l)(1) and (2), this permit does not contain effluent limitations, standards, or conditions that are less stringent than the previous permit.

**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 the abovementioned 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) and/or BPJ.

**Proposed Limits - 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 (MGD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
TRC	XXX	XXX	XXX	Report Avg Mo	XXX	Report	1/month	Grab
CBOD <sub>5</sub>	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX	1/year	Grab

\*The proposed effluent limits for Outfall 001 were based on a design flow of 0.0004 MGD.

**Development of Effluent Limitations and Monitoring Frequencies**

**Technology-Based Limitations**

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Pollutant	Limit (mg/l)	SBC	Federal Regulation	State Regulation
CBOD <sub>5</sub>	10	Average Monthly	125.3(a)(2)(i)	DEP SFTF Design Manual (Document 362-0300-002)
	20	IMAX		
Total Suspended Solids	10	Average Monthly	125.3(a)(2)(i)	DEP SFTF Design Manual (Document 362-0300-002)
	20	IMAX		
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform	200 / 100 ml	Geo Mean	-	92a.47(a)(4)

CBOD<sub>5</sub> (10 mg/L) and TSS (10mg/L) are technology-based limits stipulated in the *Technical Guidance for the Development and Specification of Effluent Limitations* (362-0400-001). The fecal coliform limits correspond with 25 PA Code § 92a.47 (a)(4). pH monitoring is not required for SRSTPs. Reporting of only the average monthly TRC concentration is consistent with monitoring requirements for other systems discharging 0.0004 mgd and is appropriate for this discharge.

All of the monitoring frequencies sample types correspond with the policies and procedures stipulated in the SOP in lieu of the *Technical Guidance for the Development and Specification of Effluent Limitations* (362-0400-001).

**Compliance History**

**WMS Query Summary** - A WMS Query was run at *Reports - Violations & Enforcements – Open Violations for Client Report* to determine whether there are any unresolved violations associated with the client that will affect issuance of the permit (per CSL Section 609). This query revealed that there were no unresolved violations.