

Application Type Renewal
Wastewater Type Sewage
Facility Type SFTF

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

Application No. PA0228168
APS ID 1016508
Authorization ID 1314578

Applicant, Facility and Project Information

Applicant Name	<u>Joshua Glantz</u>	Facility Name	<u>Glantz SRSTP</u>
Applicant Address	<u>2742 Ridge Road</u> <u>Windsor Mill, MD 21244-1040</u>	Facility Address	<u>802 Meeks Lane</u> <u>Port Matilda, PA 16870-7008</u>
Applicant Contact	<u>Joshua Glantz</u>	Facility Contact	<u>Joshua Glantz</u>
Applicant Phone	<u>(570) 220-2174</u>	Facility Phone	<u>(570) 220-2174</u>
Client ID	<u>239294</u>	Site ID	<u>527556</u>
SIC Code	<u>4952</u>	Municipality	<u>Patton Township</u>
SIC Description	<u>Trans. & Utilities - Sewerage Systems</u>	County	<u>Centre</u>
Date Application Received	<u>May 12, 2020</u>	WQM Required	<u>No</u>
Date Application Accepted	<u>June 2, 2020</u>	WQM App. No.	<u>n/a</u>
Project Description	<u>Renewal of an existing NPDES permit for the discharge of treated sewage.</u>		

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.

Approve	Deny	Signatures	Date
x		<i>Derek S. Garner</i> Derek S. Garner / Project Manager	November 16, 2020
x		<i>Nicholas W. Hartranft</i> Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	November 17, 2020

Discharge, Receiving Waters and Water Supply Information

Outfall No.	<u>001</u>	Design Flow (GPD)	<u>400</u>
Latitude	<u>40° 48' 47.60"</u>	Longitude	<u>-77° 57' 12.43"</u>
Quad Name	<u>Julian</u>	Quad Code	<u>1222</u>
Wastewater Description: <u>Sewage</u>			

Receiving Waters	<u>Unnamed Tributary of Buffalo Run</u>	Stream Code	<u>22991</u>
NHD Com ID	<u>67180274</u>	RMI	<u>1.88</u>
Drainage Area	<u>3.09</u>	Yield (cfs/mi ²)	<u>0.438</u>
Q ₇₋₁₀ Flow (cfs)	<u>1.35</u>	Q ₇₋₁₀ Basis	<u>Streamgage No. 01547200</u>
Elevation (ft)	<u>1,200</u>	Slope (ft/ft)	<u>n/a</u>
Watershed No.	<u>9-C</u>	Chapter 93 Class.	<u>HQ-CWF</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>n/a</u>		
Source(s) of Impairment	<u>n/a</u>		
TMDL Status	<u>n/a</u>	Name	<u>n/a</u>

Nearest Downstream Public Water Supply Intake	<u>PA American Water Company</u>		
PWS Waters	<u>West Branch Susquehanna River</u>	Flow at Intake (cfs)	<u>679.73</u>
PWS RMI	<u>10.66</u>	Distance from Outfall (mi)	<u>95.36</u>

Treatment Facility Summary

The Glantz Single Resident Sewage Treatment Plant (SRSTP) consists of a 1,000-gallon septic tank, 500-gallon pump tank, one Ecoflo peat fiber biofilter, one Zabel effluent filter, one Sanuril erosion chlorinator, and a 500-gallon baffled chlorine contact tank. The SRSTP serves flows year-round for a three-bedroom residence.

Compliance History

A review of the facility's files indicates compliance with permit requirements. There are no open violations associated with the permittee.

Development of Effluent Limitations

Outfall No. <u>001</u>	Design Flow (MGD) <u>0.0004</u>
Latitude <u>40° 48' 50"</u>	Longitude <u>77° 57' 14"</u>
Wastewater Description: <u>Sewage</u>	

Technology-Based Limitations

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

Pollutant	Limit (mg/l)	SBC	Basis
BOD ₅	10	Annual Avg	existing limit, tertiary treatment
	20	IMAX	existing limit, tertiary treatment
Total Suspended Solids	20	Annual Avg	existing limit, tertiary treatment
	40	IMAX	existing limit, tertiary treatment
pH	6.0 – 9.0 S.U.	IMIN – IMAX	133.102(c), 95.2(1), existing limit
Fecal Coliform	200 / 100 ml	Annual Avg	92a.47(a)(4), existing limit

The above technology-based effluent limitations are all existing requirements dating back to the first issuance of the permit in January 2000. DEP's classification for the Ecoflo peat fiber biofilter for use as an alternate onlot sewage treatment system (Alternate Design Guidance 2/6/2004, 2/24/2014, 11/6/2014) states that this treatment technology should be able to meet 10 mg/L BOD₅ and TSS; however, this facility predates the Alternate Design Guidance, has demonstrated compliance with past permit requirements, and has not negatively impacted the receiving surface water. Accordingly, it is recommended that the existing limits remain in place.

Flow, BOD₅, and TSS monitoring requirements have been changed from average monthly and average weekly to annual average and instantaneous maximum, respectively, to match the once per year reporting requirement. Along the same logic, the requirement to report a geometric mean for fecal coliform has been changed to an annual average.

Existing Effluent Limitations and Monitoring Requirements

The existing effluent limitations and monitoring requirements are as follows:

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	Average Weekly	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/month	Grab
Total Residual Chlorine	XXX	XXX	XXX	Report	XXX	XXX	1/month	Grab
BOD5	XXX	XXX	XXX	10	XXX	20	1/year	Grab
Total Suspended Solids	XXX	XXX	XXX	20	XXX	40	1/year	Grab
Fecal Coliform (CFU/100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	1,000	1/year	Grab

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)		Concentrations (mg/L)				Minimum 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
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
TRC	XXX	XXX	XXX	Report Avg Mo	XXX	XXX	1/month	Grab
BOD5	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
TSS	XXX	XXX	XXX	20.0	XXX	40	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	1000	1/year	Grab

Compliance Sampling Location: Outfall 001