

## INorthwest Regional Office CLEAN WATER PROGRAM

Application Type	New
Wastewater Type	Sewage
Facility Type	SRSTP

# NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

Application No.	PA0287849
APS ID	1004553
Authorization ID	1202452

oplicant Name	Thomas Rabbitt	Facility Name	Thomas Rabbitt SRSTP
oplicant Address	299 Rabbitt Road	Facility Address	299 Rabbitt Road
	Chicora, PA 16025		Chicora, PA 16025
oplicant Contact	Thomas Rabbitt	Facility Contact	Thomas Rabbitt
oplicant Phone	(724) 355-7320	Facility Phone	(724) 355-7320
ient ID	353210	Site ID	838052
C Code	8800	Municipality	Donegal Township
Description	Private Households	County	Butler
te Application Rece	eived October 2, 2019	WQM Required	Yes - pending
te Application Acce	epted	WQM App. No.	1019407

#### **Summary of Review**

The project involves the installation of a new single residence sewage treatment plant to replace an existing malfunctioning onlot system.

Act 537 Planning was approved on September 26, 2019.

Proposed treatment will consist of: A Premier Tech EC&-600-P-P/G Pack Coco filter unit consisting of a septic tank, coco filter, and UV disinfection unit.

The proposed system is to replace a failing onlot system at the existing residential dwelling thus, protecting the quality of Buffalo Creek. The proposed discharge is not expected to adversely effect the High Quality waters in the Buffalo Creek watershed considering the expected effluent quality and size of the proposed discharge.

#### **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
		Emily C. M. Voorhees / Civil Engineer	
		Justin C. Dickey, P.E. / Environmental Engineer Manager	

Outfall No.         001         Design Flow (MGD)         .0005           Latitude         40° 54' 15.51"         Longitude         -79° 43' 14.17"           Quad Name         Wastewater Description:         Sewage Effluent           Receiving Waters         Buffalo Creek (HQ-CWF)         Stream Code         42557           NHD Com ID         123971024         RMI         0.4500           Drainage Area         14.1 sq. mi.         Yield (cfs/mi²)         0.1           Q7-10 Flow (cfs)         14.1         Q7-10 Basis         Default           Elevation (ft)         1,082         Slope (ft/ft)         -           Watershed No.         18F         Chapter 93 Class.         Water Fishes           Exceptions to Use         Exceptions to Criteria         -           Assessment Status         Exceptions to Criteria         -           Cause(s) of Impairment         NUTRIENTS, NUTRIENTS, SILTATION         MUNICIPAL POINT SOURCE DISCHARGES, URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS           Source(s) of Impairment         Data Source         Name           Background/Ambient Data pH (SU)         -         -           Temperature (°F)         -         -           Hardness (mg/L)         -         -           Oth	Discharge, Receiving Waters and Water Supply Information						
Latitude         40° 54' 15.51"         Longitude         -79° 43' 14.17"           Quad Name         Quad Code         Quad Code           Wastewater Description:         Sewage Effluent           Receiving Waters         Buffalo Creek (HQ-CWF)         Stream Code         42557           NHD Com ID         123971024         RMI         0.4500           Drainage Area         14.1 sq. mi.         Yield (cfs/mi²)         0.1           Q7·10 Flow (cfs)         14.1         Q7·10 Basis         Default           Elevation (ft)         1,082         Slope (ft/ft)         -           Watershed No.         18F         Chapter 93 Class.         Water Fishes           Existing Use         Existing Use Qualifier         Exceptions to Criteria         -           Exceptions to Use -         Exceptions to Criteria         -           Assessment Status         Impaired         NUTRIENTS, NUTRIENTS, SILTATION           MUNICIPAL POINT SOURCE DISCHARGES, URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS         Name           Background/Ambient Data pH (SU)         -         -           Temperature (°F)         -         -           Hardness (mg/L)         -         -           Other:         -         -							
Quad Name         Quad Code           Wastewater Description:         Sewage Effluent           Receiving Waters         Buffalo Creek (HQ-CWF)         Stream Code         42557           NHD Com ID         123971024         RMI         0.4500           Drainage Area         14.1 sq. mi.         Yield (cfs/mi²)         0.1           Qr-10 Flow (cfs)         14.1         Qr-10 Basis         Default           Elevation (ft)         1,082         Slope (ft/ft)         -           Watershed No.         18F         Chapter 93 Class.         High Quality Waters - Cold Water Fishes           Existing Use         Existing Use Qualifier         Exceptions to Criteria         -           Assessment Status         Impaired         NUTRIENTS, NUTRIENTS, SILTATION MUNICIPAL POINT SOURCE DISCHARGES, URBAN RUNOFF/STORM SEWERS           Source(s) of Impairment         NUTRIENTS, NUTRIENTS, SILTATION MUNICIPAL POINT SOURCE DISCHARGES, URBAN RUNOFF/STORM SEWERS           TMDL Status         Name           Background/Ambient Data pH (SU)         -           Temperature (°F)         -           Hardness (mg/L)         -           Cher:         -           Hardness (mg/L)         -           Cher         -           Hardness (mg/L)         -	Outfall No. 001			Design Flow (MGD)	.0005		
Wastewater Description:         Sewage Effluent           Receiving Waters         Buffalo Creek (HQ-CWF)         Stream Code         42557           NHD Com ID         123971024         RMI         0.4500           Drainage Area         14.1 sq. mi.         Yield (cfs/mi²)         0.1           Qr-10 Flow (cfs)         14.1         Qr-10 Basis         Default           Elevation (ft)         1,082         Slope (ft/ft)         -           Watershed No.         18F         Chapter 93 Class.         Water Fishes           Existing Use         Existing Use Qualifier         Exceptions to Criteria         -           Exceptions to Use -         Exceptions to Criteria         -           Assessment Status         Impaired         NUTRIENTS, NUTRIENTS, SILTATION           MUNICIPAL POINT SOURCE DISCHARGES, URBAN RUNOFF/STORM SEWERS,         URBAN RUNOFF/STORM SEWERS           Source(s) of Impairment         Name         Data Source           PH (SU)         -         -           Temperature (°F)         -         -           Hardness (mg/L)         -         -           Other:         -         -           Nearest Downstream Public Water Supply Intake         Harrison Township Water Authority Allegheny County	Latitude 40° 54' 15.51"			Longitude	-79° 43' 14.17"		
Receiving Waters Buffalo Creek (HQ-CWF) Stream Code 42557  NHD Com ID 123971024 RMI 0.4500  Drainage Area 14.1 sq. mi. Yield (cfs/mi²) 0.1  Qr-10 Flow (cfs) 14.1 Qr-10 Basis Default  Elevation (ft) 1,082 Slope (ft/ft) - High Quality Waters - Cold Watershed No. 18F Chapter 93 Class. Water Fishes  Existing Use Existing Use Qualifier  Exceptions to Use - Exceptions to Criteria - Assessment Status  Cause(s) of Impairment Cause(s) of Impairment TMDL Status Nutralents Source(s) of Impairment TMDL Status Data PH (SU) - Temperature (°F) - Hardness (mg/L) - Other:	Quad Name			Quad Code			
NHD Com ID         123971024         RMI         0.4500           Drainage Area         14.1 sq. mi.         Yield (cfs/mi²)         0.1           Q <sub>7-10</sub> Flow (cfs)         14.1         Q <sub>7-10</sub> Basis         Default           Elevation (ft)         1,082         Slope (ft/ft)         -           Watershed No.         18F         Chapter 93 Class.         Water Fishes           Existing Use         Existing Use Qualifier         Exceptions to Criteria         -           Exceptions to Use -         Exceptions to Criteria         -           Assessment Status         Impaired         NUTRIENTS, NUTRIENTS, SILTATION           MUNICIPAL POINT SOURCE DISCHARGES, URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS         Name           Background/Ambient Data pH (SU)         Data Source         Data Source           Temperature (°F)         -         Hardness (mg/L)           Other:         -         -           Nearest Downstream Public Water Supply Intake         Harrison Township Water Authority Allegheny County	Wastewater Desc	ription:	Sewage Effluent				
NHD Com ID         123971024         RMI         0.4500           Drainage Area         14.1 sq. mi.         Yield (cfs/mi²)         0.1           Qr₁0 Flow (cfs)         14.1         Qr₁0 Basis         Default           Elevation (ft)         1,082         Slope (ft/ft)         -           Watershed No.         18F         Chapter 93 Class.         Water Fishes           Existing Use         Existing Use Qualifier         Exceptions to Criteria         -           Exceptions to Use -         Exceptions to Criteria         -           Assessment Status         Impaired         NUTRIENTS, NUTRIENTS, SILTATION           MUNICIPAL POINT SOURCE DISCHARGES, URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS         Name           Background/Ambient Data pH (SU)         Data Source         Data Source           Temperature (°F)         -         -           Hardness (mg/L)         -         -           Other:         -         -           Nearest Downstream Public Water Supply Intake         Harrison Township Water Authority Allegheny County							
Drainage Area 14.1 sq. mi. Yield (cfs/mi²) 0.1  Qr-10 Flow (cfs) 14.1 Qr-10 Basis Default  Elevation (ft) 1,082 Slope (ft/ft)	Receiving Waters	Buffa	lo Creek (HQ-CWF)	Stream Code	42557		
Cause(s) of Impairment TMDL Status	NHD Com ID	1239	71024	RMI	0.4500		
Elevation (ft) 1,082 Slope (ft/ft) - High Quality Waters - Cold Watershed No. 18F Chapter 93 Class. Existing Use Exceptions to Use - Exceptions to Use - Exceptions to Criteria - Assessment Status Cause(s) of Impairment TMDL Status TMDL Status TMDL Status Data pH (SU) - Temperature (°F) Hardness (mg/L) Other:	Drainage Area	14.1	sq. mi.	Yield (cfs/mi²)	0.1		
Watershed No. 18F Chapter 93 Class. High Quality Waters - Cold Water Fishes  Existing Use Exceptions to Use - Exceptions to Criteria -  Assessment Status Impaired  Cause(s) of Impairment MUNICIPAL POINT SOURCE DISCHARGES, URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/ST	Q <sub>7-10</sub> Flow (cfs)	14.1		Q <sub>7-10</sub> Basis	Default		
Watershed No. 18F Chapter 93 Class. Water Fishes  Existing Use Existing Use Qualifier  Exceptions to Use - Exceptions to Criteria -  Assessment Status Impaired  Cause(s) of Impairment MUNICIPAL POINT SOURCE DISCHARGES, URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS  TMDL Status Name  Background/Ambient Data pH (SU) - Data Source  PH (SU) - Hardness (mg/L) - Other: - Impaired Data Philosophic Mater Supply Intake Harrison Township Water Authority Allegheny County	Elevation (ft)	1,082		Slope (ft/ft)	<u>-</u>		
Existing Use	Watershad No	400		Chapter 02 Class			
Exceptions to Use Assessment Status		100			Water Fishes		
Assessment Status Cause(s) of Impairment Cause(s) of Impairment Source(s) of Impairment TMDL Status  Background/Ambient Data pH (SU) Temperature (°F) Hardness (mg/L) Other:  NUTRIENTS, NUTRIENTS, SILTATION MUNICIPAL POINT SOURCE DISCHARGES, URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS  Data Source  Data Source  Hardness (mg/L)  Other:  Harrison Township Water Authority Allegheny County	-						
Cause(s) of Impairment  NUTRIENTS, NUTRIENTS, SILTATION  MUNICIPAL POINT SOURCE DISCHARGES, URBAN RUNOFF/STORM SEWERS,  URBAN RUNOFF/STORM SEWERS  Name  Background/Ambient Data pH (SU) Temperature (°F) Hardness (mg/L) Other:  Nearest Downstream Public Water Supply Intake  NUTRIENTS, NUTRIENTS, SILTATION  MUNICIPAL POINT SOURCE DISCHARGES, URBAN RUNOFF/STORM SEWERS,  Name  Data Source  Hardness (mg/L)  Harrison Township Water Authority Allegheny County	•		Impaired	Exceptions to Criteria			
Source(s) of Impairment TMDL Status  Name  Background/Ambient Data pH (SU) Temperature (°F) Hardness (mg/L) Other:  Nearest Downstream Public Water Supply Intake  MUNICIPAL POINT SOURCE DISCHARGES, URBAN RUNOFF/STORM SEWERS,  Name  Data Source  Data Source  Hardness, URBAN RUNOFF/STORM SEWERS,  Name  Harrison Township Water Authority Allegheny County				TO CILITATION			
Source(s) of Impairment TMDL Status  Name  Background/Ambient Data pH (SU) Temperature (°F) Hardness (mg/L) Other:  Nearest Downstream Public Water Supply Intake  URBAN RUNOFF/STORM SEWERS  Name  Data Source  Pata Source  Hat Source  Hardness (mg/L)  Harrison Township Water Authority Allegheny County	Cause(s) or impa	IIIIeni			UNOFF/STORM SEWERS		
Background/Ambient Data pH (SU) Temperature (°F) Hardness (mg/L) Other:  Data Source  Hardness (mg/L)  Hardness (mg/L)  Harrison Township Water Authority Allegheny County	Source(s) of Impa	airment			511611761614111 52112116,		
pH (SU) - Temperature (°F) - Hardness (mg/L) - Other: -  Nearest Downstream Public Water Supply Intake Harrison Township Water Authority Allegheny County	TMDL Status			Name			
pH (SU) - Temperature (°F) - Hardness (mg/L) - Other: -  Nearest Downstream Public Water Supply Intake Harrison Township Water Authority Allegheny County							
Temperature (°F)	Background/Amb	ient Data		Data Source			
Hardness (mg/L) Other:  - Nearest Downstream Public Water Supply Intake Harrison Township Water Authority Allegheny County	pH (SU)						
Other:  -  Nearest Downstream Public Water Supply Intake  Harrison Township Water Authority Allegheny County	Temperature (°F)						
Nearest Downstream Public Water Supply Intake Harrison Township Water Authority Allegheny County	Hardness (mg/L)		<u>-</u>				
	Other:		<u>-</u>				
PWS Waters Allegheny River Flow at Intake (cfs) -				•	hority Allegheny County		
			ny River				
PWS RMI 24.33 Distance from Outfall (mi) Approx. 33.45	PWS RMI	24.33		Distance from Outfall (mi)	_Approx. 33.45		

### **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.

	Effluent Limitations						Monitoring Requirements	
Parameter	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2)	Required
Farameter	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Flow (GPD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	Upon Request	Grab
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: Outfall 001, after the UV disinfection.

Other Comments: Flow is monitor only based on Chapter 92a.61. The limits for BOD5, Total Suspended Solids, and Fecal Coliforms are technology- based on Chapter 92a.47.