

Northeast Regional Office CLEAN WATER PROGRAM

Application Type
Renewal
NonFacility Type
Major / Minor
Minor

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No. PA0060321

APS ID 626879

Authorization ID 1306874

	Applicant and	I Facility Information	
Applicant Name	Village of Mountain Heights, Inc.	Facility Name	Village of Mountain Heights WWTP
Applicant Address	139 Gardeners Lane	Facility Address	Village Lane
	Dalton, PA 18414-7839		Dalton, PA 18414-7839
Applicant Contact	David Mayer, Owner	Facility Contact	Mike Franko
Applicant Phone	(570) 575-3172	Facility Phone	(570) 878-3674
Client ID	259356	Site ID	250680
Ch 94 Load Status	Not Overloaded	Municipality	Overfield Township
Connection Status	-	County	Wyoming
Date Application Rece	eived September 3, 2019	EPA Waived?	Yes
Date Application Acce	pted January 28, 2021	If No, Reason	
Purpose of Application	Renewal of existing NPDES per	mit for discharge of treated	sewage.

Summary of Review

The applicant is requesting the renewal of an NPDES permit to discharge up to 0.020 MGD of treated sewage into the Unnamed Tributary 28808 of South Branch Tunkhannock Creek, a Cold-Water Fishery, Migratory Fish (CWF, MF) receiving stream in State Water Plan Basin 4-F (Tunkhannock Creek). As per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than its designated use. This stream segment is not designated as a naturally reproducing trout stream as per PA Fish & Boat Commission. This discharge is not expected to affect public water supplies.

Limitations for pH, Total Suspended Solids (TSS), and Fecal Coliform are technology-based and carried over from the previous permit.

Limitations for CBOD₅, Ammonia-Nitrogen, Total Residual Chlorine (TRC), and Dissolved Oxygen (DO) are water quality-based and carried over from the previous permit. WQM 7.0 modeling and the TRC Calculation Spreadsheet did not recommend stricter limits.

The annual monitoring and reporting for Total Nitrogen, Total Phosphorous, Total Kjeldahl Nitrogen, and Nitrate-Nitrite as N has been maintained in this permit.

Monitoring frequencies for all parameters with limitations have been updated to the recommended frequencies found in Table 6-3 of DEP's Technical Guidance for the Development and Specification of Effluent Limitations (Document No. 362-0400-001).

There are no representative stream gages in the vicinity of the outfall. The drainage area at Outfall 001 from USGS StreamStats is outside of the suggested range for the site and indicates that estimates were extrapolated with unknown errors. Therefore, the default Low Flow Yield (LFY) of 0.1 cfs/mi² was used to model the discharge. For modeling inputs,

Approve	Deny	Signatures	Date
Х		/s/ Allison Seyfried / Environmental Engineering Specialist	February 10, 2021
Х		/s/ Amy M. Bellanca, P.E. / Environmental Engineer Manager	3-19-21

Summary of Review

RMI values were obtained using the "PA Historic Streams" feature of eMapPA, drainage areas were delineated using USGS's StreamStats Interactive Map, and elevations were obtained using the elevation profile feature of StreamStats.

Sludge use and disposal description and location(s): As per the permittee's Sludge and Biosolids Supplemental Report forms, liquid sludge is frequently hauled by Rural to various locations including:

- The March 2018 reporting form indicated sludge was hauled to WVSA and that seed sludge was hauled to St. Gabriel's
- The May 2018 reporting form indicates seed sludge was hauled to Northeast American Diocese
- The March 2019 reporting form indicates seed sludge was hauled to Lackawanna Trail
- The April 2019 reporting form indicates seed sludge was hauled to Freeman's Trailer Park

Starting with the May 2019 reporting form the permittee indicates that sludge is still being hauled by Rural, however the location is no longer specified on any of the reporting forms.

The existing permit expired on April 30, 2018 and the application for renewal was received late on September 3, 2019.

A Water Management System Inspection query indicated that on June 27, 2017 a Compliance Evaluation was performed.

There are no open violations for this client that warrant withholding issuance of this permit.

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.

ischarge, Receivin	g Waters and Water Supply Info	rmation	
	32' 8.50" ctoryville ption: Sewage Effluent	Design Flow (MGD) Longitude Quad Code	0.02 -75° 48' 2.89" 0639
Receiving Waters NHD Com ID Drainage Area Q ₇₋₁₀ Flow (cfs) Elevation (ft)	Unnamed Tributary to South Branch Tunkhannock Creek (CWF, MF) 66406253 0.14 mi ² 0.014 1,126.50	Stream Code RMI Yield (cfs/mi²) Q ₇₋₁₀ Basis Slope (ft/ft)	28808 0.75 0.1 State-wide default
Watershed No. Existing Use	<u>4-F</u>	Chapter 93 Class. Existing Use Qualifier	CWF, MF
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status Cause(s) of Impair Source(s) of Impair TMDL Status	ment -	Name -	
PWS Waters	nm Public Water Supply Intake Susquehanna River 122.58	Danville Borough Water Author Flow at Intake (cfs) Distance from Outfall (mi)	ority - ~ 90.3

Treatment Facility Summary						
reatment Facility Nar	ne: Village of Mountain He	ights WWTP				
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)		
Sewage	Secondary	Aeration	Chlorination	0.00473		
Hydraulic Capacity	Organic Capacity			Biosolids		
(MGD)	(lbs/day)	Load Status	Biosolids Treatment	Use/Disposa		
0.020	-	Not Overloaded	Holding Tank	Hauled		

Modeling Results:

At Outfall 001 on Unnamed Tributary 28808 of South Branch Tunkhannock Creek:

RMI	Elevation (ft)	Drainage Area (mi²)	Q ₇₋₁₀ Flow (cfs)
0.75	1,126.5	0.14	0.000811

$$Low\ Flow\ Yield\ using\ StreamStats = \frac{0.000811\ ft^3/sec}{0.14\ mi^2} = \textbf{0.0058}\ \frac{ft^3/sec}{mi^2}$$

StreamStats Report



Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.14	square miles	4.84	982
PRECIP	Mean Annual Precipitation	37	inches	33.1	47.1
GLACIATED	Percent of Glaciation	100	percent	0	100
FOREST	Percent Forest	89.1231	percent	41	100
Low-Flow Statistics Disclaimers Low Flow Region 5					

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.00405	ft^3/s
30 Day 2 Year Low Flow	0.00677	ft^3/s
7 Day 10 Year Low Flow	0.000811	ft^3/s

3.88

square miles

At confluence with Unnamed Tributary 28803 to South Branch Tunkhannock Creek:

RMI	Elevation (ft)	Drainage Area (mi²)	
0.0	890	3.88	
2.35 (on 28803)	050	5.00	

StreamStats Report



Using State-wide Low-Flow Yield (LFY) of 0.1 cfs/mi2:

DRNAREA

$$\frac{0.1\,ft^3/sec}{mi^2}\,\times 0.14\,mi^2 = \frac{0.\,014\,ft^3}{sec}$$

Area that drains to a point on a stream

WQM 7.0 Effluent Limits

	SWP Basin	Stream Code		Stream Name	<u>e</u>		
	04F	28808	Tril	28808 of S Br Tunk	hannock Cr		
RMI	Name	Permit Number	Disc Flow (mgd)	Parameter	Effl. Limit 30-day Ave. (mg/L)	Effl. Limit Maximum (mg/L)	Effl. Limit Minimum (mg/L)
0.750	Vil Mtn Heigh	ts PA0060321	0.020	CBOD5	25		
				NH3-N	2.48	4.96	
				Dissolved Oxygen			4

TRC EVALUA	TRC EVALUATION					
Input appropria	te values in <i>i</i>	A3:A9 and D3:D9				
0.014	= Q stream (cfs)	0.5	= CV Daily		
0.02	= Q discharg	e (MGD)	0.5	= CV Hourly		
30	= no. sample	s	1	= AFC_Partial N	lix Factor	
0.3	= Chlorine D	emand of Stream	1	= CFC_Partial N	lix Factor	
0	= Chlorine D	emand of Discharge	15	= AFC_Criteria	Compliance Time (min)	
0.5	= BAT/BPJ V	alue	720	= CFC_Criteria Compliance Time (min)		
0	= % Factor o	of Safety (FOS)		=Decay Coeffici	ient (K)	
Source	Reference	AFC Calculations		Reference	CFC Calculations	
TRC	1.3.2.iii	WLA afc =	0.163	1.3.2.iii	WLA cfc = 0.152	
PENTOXSD TRG	5.1a	LTAMULT afc =	0.373	5.1c	LTAMULT cfc = 0.581	
PENTOXSD TRG	5.1b	LTA_afc=	0.061	5.1d	$LTA_cfc = 0.088$	
Source		Effluer	nt Limit Calcul	ations		
PENTOXSD TRG	5.1f	AML MULT = 1.231				
PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l) = 0.075 AFC				
		INST MAX	LIMIT (mg/l) =	0.245		







TRC_Calculation -Village of Mountain



Pollution Report.pdf



Watershed Info -Village of Mountain

Development of Effluent Limitations						
Outfall No.	001	Design Flow (MGD)	0.020			
Latitude	41° 32' 15.00"	Longitude	-75° 48' 3.00"			
Wastewater D	Wastewater Description: Sewage Effluent					

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
Total Suspended	30.0	Average Monthly	133.102(b)(1)	92a.47(a)(1)
Solids	60.0	IMAX	133.102(b)(2)	92a.47(a)(2)
pН	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform				
(5/1 – 9/30)	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
Fecal Coliform				
(5/1 – 9/30)	1,000 / 100 ml	IMAX	-	92a.47(a)(4)
Fecal Coliform				
(10/1 – 4/30)	2,000 / 100 ml	Geo Mean	-	92a.47(a)(5)
Fecal Coliform				
(10/1 – 4/30)	10,000 / 100 ml	IMAX	-	92a.47(a)(5)

Water Quality-Based Limitations

The following limitations were determined through water quality modeling:

Parameter	Limit (mg/l)	SBC	Model
Dissolved Oxygen	6.0	Minimum	Previous Water Quality Management Pollution Report
CBOD₅	10.0	Average Monthly	
	20.0	IMAX	
Ammonia-Nitrogen	7.5	Average Monthly	
Nov 1 - Apr 30	15.0	IMAX	
Ammonia-Nitrogen	2.5	Average Monthly	
May 1 - Oct 31	5.0	IMAX	
	0.04	Average Monthly	Previous TRC Modeling
Total Residual Chlorine	0.09	IMAX	

Anti-Backsliding

No limitations were made less stringent.