pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northeast Regional Office
CLEAN WATER PROGRAM

NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE

Application Type	**Renewal**	Application No.	**PA0062154**
Facility Type	**Non-Municipal**	APS ID	**617803**
Major / Minor	**Minor**	Authorization ID	**1225625**

Applicant and Facility Information

Applicant Name	**Mountain View School District**	Facility Name	**Mountain View School District WWTP**
Applicant Address	11748 State Route 106	Facility Address	11749 State Route 106
	Kingsley, PA 18826		Kingsley, PA 18826
Applicant Contact	Robert Taylor	Facility Contact	Robert Taylor
Applicant Phone	(570) 434-8441	Facility Phone	(570) 434-8441
Client ID	36148	Site ID	256263
Ch 94 Load Status	-	Municipality	Harford Township
Connection Status	-	County	Susquehanna
Date Application Received	April 23, 2018	EPA Waived?	Yes
Date Application Accepted	April 24, 2018	If No, Reason	-

Purpose of Application: Renewal of existing NPDES permit.

Summary of Review

The applicant is requesting renewal of an NPDES permit to discharge 0.045 MGD of treated sewage to Millard Creek, a CWF/MF designated receiving stream in state water plan basin 04-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. A recent point of first use (POFU) determination found the POFU location to be at the start of the wetlands directly on the southern side of SR 2022 (Owego Turnpike) slightly downstream of the outfall location. Millard Creek is not considered an impaired waterway according to DEP's 2018 Integrated Water Quality Report. Please note: eMapPA suggests that the stream segment this facility discharges to is named Tributary 29093 to Millard Creek. However, since many other sources (including topographic maps, GIS maps, the 2018 Integrated Water Quality Report map, previously issued permits, etc.) name the segment as Millard Creek, the name of the receiving stream remains Millard Creek in this renewal.

Limitations for pH, TSS and Fecal Coliform are technology-based and carried over from the previous permit. Limitations for D.O. and $CBOD_5$ are water quality-based and carried over from the previous permit.

Since there are no nearby representative gages to obtain flow data from and the drainage area at Outfall 001 is too small for USGS StreamStats to estimate accurate low flow values (see StreamStats Low Flow attachment), the default LFY of 0.1 cfs/mi^2 was chosen to model the discharge. For modeling inputs, RMI values were obtained using the "PA Historic Streams" feature of eMapPA as well as the "measure" tool. Drainage areas were delineated using USGS's StreamStats Interactive Map and elevations were obtained using the elevation profile feature of StreamStats (see Watershed Information attachment).

WQM 7.0 recommended a more stringent monthly average summertime Ammonia-Nitrogen limitation of 1.7 mg/L (see attached). The standard 3x multiplier for wintertime Ammonia-Nitrogen limitations and 2x multiplier for IMAX limitations were utilized. The more stringent limitations will come into effect 4 years after the permit effective date. Until then, the old 2.0

Approve	Deny	Signatures	Date
X		/s/ Brian Burden, E.I.T. / Project Manager	November 6, 2019
X		/s/ Amy M. Bellanca, P.E. / Environmental Engineer Manager	November 6, 2019

Summary of Review

mg/L monthly average summertime limitation (and associated wintertime/IMAX limitations with same multipliers) will be in effect.

Since the facility utilizes ultraviolet light for disinfection, the monitoring frequency for TRC has been updated from 1/week to "daily when discharging" (see Part C.I.E.). The monthly average limitation from the previously issued permit has been removed from Part A and only the IMAX limitation remains.

When modeling the discharge using the current TRC calculation spreadsheet, a monthly average limitation of 0.03 mg/L and an IMAX of 0.09 mg/L was recommended. The water quality-based IMAX limitation will come into effect 4 years after the Permit Effective Date. The permittee may conduct site-specific studies to alter the new TRC limitation (see Part C.III). Several factors can change the recommended TRC IMAX limitation as calculated by the spreadsheet, such as: chlorine demand of stream, chlorine demand of discharge, and stream flow. Default values for chlorine demand were used to develop the limitations (0.3 mg/L for stream demand, 0 mg/L for discharge demand). The stream flow value was determined by multiplying the drainage area at the point of first use (delineated using USGS's StreamStats) by the default LFY of 0.1 cfs/mi^2. The 0.17 mg/L IMAX limitation from the previously issued permit will be in effect until the updated IMAX limitation comes into effect.

The monitoring frequencies for all parameters with effluent limitations now conform with the monitoring frequencies recommended in Table 6-3 of the Department's Technical Guidance for the Development and Specification of Effluent Limitations (doc. no. 362-0400-001).

Monitoring and reporting requirements for Total Phosphorus, Total Nitrogen, Total Kjeldahl Nitrogen and Nitrate+Nitrite-Nitrogen have been updated from 1/year to 1/quarter to help evaluate seasonal nutrient loadings at the WWTP.

As per the most recently completed DMR supplemental Sewage Sludge / Biosolids Production and Disposal form, liquid sludge was hauled from the WWTP by Koberline on January 23, 2019. The sludge was disposed of off-site at the WVSA WWTP in Hanover Twp., Luzerne County.

The following list summarizes DMR exceedances over the past 2 years:

June 2019:
- **Ammonia Nitrogen:** <2.63 mg/L average monthly (limitation was 2.0 mg/L)

May 2019:
- **Dissolved Oxygen:** 5.36 mg/L (minimum was 6.0 mg/L)

March 2019:
- **Ammonia Nitrogen:** 8.03 mg/L average monthly (limitation was 6.0 mg/L)

October 2018:
- **Ammonia Nitrogen:** 12.9 mg/L average monthly (limitation was 2.0 mg/L)

September 2018:
- **Ammonia Nitrogen:** 6.53 mg/L average monthly (limitation was 2.0 mg/L)
- **Dissolved Oxygen:** 5.46 mg/L (minimum was 6.0 mg/L)
- **Fecal Coliform:** 209.8 CFU/100mL geometric mean (limitation was 200 CFU/100mL)

The previously issued permit expired on April 30, 2018 and the application for permit renewal was not submitted on time. There are no open violations for this client that would warrant withholding the issuance of this permit. EPA waiver is in effect.

WQM Modeling.pdf TRC Calculation.pdf Watershed Information.pdf StreamStats Low Flow.pdf

Summary of Review
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, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	0.045
Latitude	41º 44' 12"	Longitude	-75º 43' 50"
Quad Name	Lenoxville	Quad Code	0540
Wastewater Description:	Sewage Effluent		

Receiving Waters	Millard Creek (CWF/MF)	Stream Code	29090
NHD Com ID	66396701	RMI	2.05 (on eMap's Tributary 29093 to Millard Creek)
Drainage Area	0.1	Yield (cfs/mi^2)	0.1
Q_{7-10} Flow (cfs)	0.01	Q_{7-10} Basis	Default LFY
Elevation (ft)	1455	Slope (ft/ft)	0.028
Watershed No.	4-F	Chapter 93 Class.	CWF/MF
Existing Use	-	Existing Use Qualifier	-
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment	-		
Source(s) of Impairment	-		
TMDL Status	-	Name	-

Background/Ambient Data		Data Source
pH (SU)	-	-
Temperature (°F)	-	-
Hardness (mg/L)	-	-
Other:	-	-

Nearest Downstream Public Water Supply Intake	Danville Municipal Water Authority		
PWS Waters	Susquehanna River	Flow at Intake (cfs)	1123
PWS RMI	122.5	Distance from Outfall (mi)	~108

Treatment Facility Summary

Treatment Facility Name: Mountain View School District WWTP

WQM Permit No.	Issuance Date
5889401	2/15/1990

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Extended Aeration	Ultraviolet Light	0.0044 (2017)

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.045	99	Not Overloaded	Sludge Holding Tank	Hauled

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** 0.045
Latitude 41º 44' 12" **Longitude** -75º 43' 50"
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 Solids	30.0	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	60.0	IMAX	-	-
pH	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)
	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)
	10,000 / 100 ml	IMAX	-	92a.47(a)(5)

Water Quality-Based Limitations

The following limitations were determined through water quality modeling (output files attached):

Parameter	Limit (mg/l)	SBC	Model
$CBOD_5$	10.0	Average Monthly	Previous Modeling
	20.0	IMAX	
Total Residual Chlorine	0.09	IMAX	2019 TRC Calculation Spreadsheet
Dissolved Oxygen	6.0	Minimum	Previous Modeling
Ammonia-Nitrogen (5/1 – 10/31)	1.7	Average Monthly	2019 WQM 7.0 Modeling
	3.4	IMAX	
Ammonia-Nitrogen (11/1 – 4/30)	5.1	Average Monthly	
	10.2	IMAX	

Comments: The TRC and Ammonia-Nitrogen limitations come into effect 4 years after the permit effective date.