

Application Type Renewal  
Facility Type Municipal  
Major / Minor Minor

**NPDES PERMIT FACT SHEET  
INDIVIDUAL SEWAGE**

Application No. PA0029777  
APS ID 591859  
Authorization ID 1298978

**Applicant and Facility Information**

Applicant Name	<u>Westgate Water and Sewer Municipal Authority</u>	Facility Name	<u>Westgate Water and Sewer Municipal Authority Wastewater Treatment Plant</u>
Applicant Address	<u>184 Keiserville Road</u> <u>Tunkhannock, PA 18657-6135</u>	Facility Address	<u>Westgate Development –</u> <u>Dornblazers Lane</u> <u>Tunkhannock, PA 18657</u>
Applicant Contact	<u>Linda Thompson, Vice-Chairman</u>	Facility Contact	<u>Larry Lechleitner, Operator</u>
Applicant Phone	<u>(570) 836-1199</u>	Facility Phone	<u>(570) 815-8049</u>
Client ID	<u>76044</u>	Site ID	<u>450865</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Washington Township</u>
Connection Status	<u>No Limitations</u>	County	<u>Wyoming</u>
Date Application Received	<u>December 12, 2019</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>December 16, 2019</u>	If No, Reason	<u>-</u>
Purpose of Application	<u>Renewal of NPDES permit for existing discharge of treated sewage.</u>		

**Summary of Review**

The applicant is requesting the renewal of an NPDES permit to discharge up to 0.03 MGD of treated sewage into an Unnamed Tributary to the Susquehanna River, a Cold-Water Fishery, Migratory Fish (CWF, MF) receiving stream in State Water Plan Basin 4-G (Mehoopany – Bowman Creeks). 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.

Limitations for pH, CBOD<sub>5</sub>, Total Suspended Solids (TSS), and Fecal Coliform are technology-based and carried over from the previous permit.

Limitations for Dissolved Oxygen (DO), Ammonia- Nitrogen, and Total Residual Chlorine (TRC) are water quality-based and carried over from the previous permit. IMAX limitations for Ammonia-Nitrogen were not included in the previous permit. IMAX limitations are being added for this permit renewal at two times the average monthly limit (6.0 mg/L for May 1 – October 31 and 18.0 mg/L for November 1 – April 30). WQM 7.0 modeling and the TRC Calculation Spreadsheet did not recommend stricter limits.

Previous renditions of this permit included sampling requirements for nutrients. These requirements were discontinued in the previous permit renewal. However, monitoring/reporting for Total Nitrogen (TN) and Total Phosphorus (TP) is now required for all individual sewage permits and has therefore been added to the permit at a reporting frequency of 1/year. Monitoring/reporting is also included for Total Kjeldahl Nitrogen (TKN) and Nitrate-Nitrite as N since they are components of the calculation for TN.

Per current Standard Operating Procedures for Publicly Owned Treatment Plants, raw sewage influent CBOD<sub>5</sub> and TSS monitoring/reporting shall be added to the permit. A monitoring frequency of 1/month has been applied.

Approve	Deny	Signatures	Date
X		/s/ Allison Seyfried / Environmental Engineering Specialist	February 25, 2020
X		/s/ Amy M. Bellanca, P.E. / Environmental Engineer Manager	February 25, 2020

### Summary of Review

For this permit renewal, all monitoring frequencies for parameters with limitations are consistent with the Department's *Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits* (document no. 362-0400-001).

There are no representative stream gages in the vicinity of the outfall and the drainage area at Outfall 001 is too small for USGS StreamStats to estimate accurate low flow values. Therefore, the default Low Flow Yield (LFY) of 0.1 cfs/mi<sup>2</sup> was used to model the discharge. For modeling inputs, 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.

As per the permit renewal application and confirming with the permittee's consultant and operator, sludge is hauled to the Towanda Municipal Authority in Towanda Borough by Crawford Septic.

The existing permit expired on January 31, 2018 and the application for renewal was received late on December 12, 2019.

A Water Management System Inspection query indicated that on March 29, 2017 a Compliance Evaluation was performed.

There are currently three open violations for this client that may need to be resolved before issuance of the final permit:

1. 10/18/2019 – Violation ID 876950 – Violation Code 92A.75(A) – NPDES - Failure to submit NPDES renewal application at least 180 days prior to expiration or later approved date.
2. 10/18/2019 – Violation ID 876951 – Violation Code 92A.44 – NPDES - Violation of effluent limits in Part A of permit
3. 10/18/2019 – Violation ID 876952 – Violation Code 92A.41(A)12B – NPDES - Failure to submit monitoring report(s) or properly complete monitoring reports



Watershed Info -  
Westgate WWTP.pdf



WQM 7.0 -  
Westgate WWTP.pdf



TRC\_CALC -  
Westgate WWTP.pdf

### 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.	<u>001</u>	Design Flow (MGD)	<u>0.03</u>
Latitude	<u>41° 35' 36.86"</u>	Longitude	<u>-76° 0' 48.98"</u>
Quad Name	<u>Meshoppen</u>	Quad Code	<u>0637</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Susquehanna River (CWF, MF)</u>	Stream Code	<u>29248</u>
NHD Com ID	<u>66405239</u>	RMI	<u>2.74</u>
Drainage Area	<u>0.58 mi<sup>2</sup></u>	Yield (cfs/mi <sup>2</sup> )	<u>0.1</u>
Q <sub>7-10</sub> Flow (cfs)	<u>0.058</u>	Q <sub>7-10</sub> Basis	<u>State-wide default</u>
Elevation (ft)	<u>1,061</u>	Slope (ft/ft)	<u>-</u>
Watershed No.	<u>4-G</u>	Chapter 93 Class.	<u>CWF, MF</u>
Existing Use	<u>-</u>	Existing Use Qualifier	<u>-</u>
Exceptions to Use	<u>-</u>	Exceptions to Criteria	<u>-</u>
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	<u>-</u>		
Source(s) of Impairment	<u>-</u>		
TMDL Status	<u>-</u>	Name	<u>-</u>
Nearest Downstream Public Water Supply Intake	<u>Danville Borough Water Authority</u>		
PWS Waters	<u>Susquehanna River</u>	Flow at Intake (cfs)	<u>-</u>
PWS RMI	<u>122.58</u>	Distance from Outfall (mi)	<u>~ 94.8</u>

Treatment Facility Summary				
<b>Treatment Facility Name:</b> Westgate Water and Sewer Municipal Authority				
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Aeration with clarifiers	Chlorine	0.016 (2016-2018)
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.030	60.0	Not Overloaded	Digested	Hauled

**Development of Effluent Limitations**

**Outfall No.** 001 **Design Flow (MGD)** 0.03  
**Latitude** 41° 35' 36.00" **Longitude** -76° 0' 48.00"  
**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
CBOD <sub>5</sub>	25.0	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	40.0	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
	50.0	IMAX		
Total Suspended Solids	30.0	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	45.0	Average Weekly	133.102(b)(2)	92a.47(a)(2)
	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)
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
Total Residual Chlorine	0.2	Average Monthly	Previous modeling and TRC Calculation Spreadsheet
	0.4	IMAX	
Dissolved Oxygen	6.0	Minimum	Previous modeling
Ammonia-Nitrogen Nov 1 – Apr 30	9.0	Average Monthly	
	18.0	IMAX	
Ammonia Nitrogen May 1 – Oct 31	3.0	Average Monthly	
	6.0	IMAX	

**Anti-Backsliding**

No limitations were made less stringent.