

Application Type Renewal
Facility Type Non-Municipal
Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0060658
APS ID 692534
Authorization ID 1256828

Applicant and Facility Information

Applicant Name	<u>Aqua Pennsylvania Wastewater, Inc. (APW)</u>	Facility Name	<u>Aqua Pennsylvania Wastewater, Inc. Washington Park WWTP</u>
Applicant Address	<u>762 W. Lancaster Avenue Bryn Mawr, PA 19010-3402</u>	Facility Address	<u>Debbie Drive Tunkhannock, PA 18657</u>
Applicant Contact	<u>Curt R. Steffy, Vice President</u>	Facility Contact	<u>Robert J. Soltis</u>
Applicant Phone	<u>(610) 645-1122</u>	Facility Phone	<u>(570) 443-7099</u>
Client ID	<u>62614</u>	Site ID	<u>254313</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Washington Township</u>
Connection Status	<u>-</u>	County	<u>Wyoming</u>
Date Application Received	<u>December 28, 2018</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>January 3, 2019</u>	If No, Reason	<u>-</u>
Purpose of Application	<u>Renewal of NPDES permit for discharge of treated sewage.</u>		

Summary of Review

The applicant is requesting the renewal of an NPDES permit to discharge up to 0.07 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. This discharge is not expected to affect public water supplies.

Limitations for pH, CBOD₅, Total Suspended Solids (TSS), Fecal Coliform, and Dissolved Oxygen (DO) are technology-based and carried over from the previous permit.

Limitations for Ammonia-Nitrogen are water quality-based and carried over from the previous permit. WQM 7.0 modeling did not recommend stricter limits.

The Total Residual Chlorine (TRC) average monthly effluent limitation has been removed because UV Disinfection is used as the primary disinfection method. In the event the facility uses chlorine for cleaning purposes or as a back-up disinfection option, TRC should be sampled "daily when discharging" (see requirements under Part C.I.E).

The TRC Calculation Spreadsheet recommends a stricter IMAX limitation than the previous permit. The permittee will be required to meet the new water quality-based limit for TRC starting three years after the effective date of the permit. The TRC IMAX limitation from the previously issued permit will be in effect for the first three years after the permit effective date.

The monitoring/reporting for Total Nitrogen (TN), Total Phosphorus (TP), Total Kjeldahl Nitrogen (TKN), and Nitrate-Nitrite as N has been maintained in this permit.

Approve	Deny	Signatures	Date
X		/s/ Allison Seyfried / Environmental Engineering Specialist	December 24, 2019
X		/s/ Amy M. Bellanca, P.E. / Environmental Engineer Manager	December 24, 2019

Summary of Review

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 nearby representative stream 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. Therefore, the default LFY of 0.1 cfs/mi² was chosen 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 application and Sewage Sludge/Biosolids Production and Disposal Supplemental Form, sludge is hauled to the Greater Hazleton Joint Sewer Authority by Russell Reid Wastewater Management.

The existing permit expired on June 30, 2019 and the application for renewal was received on time.

A Water Management System Inspection query indicated that on August 14, 2019 a Routine/Partial Inspection was performed.

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



Watershed Info -
Washington Park.pc



TRC_CALC -
Washington Park.pc



WQM -
Washington Park.pc

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)	0.07
Latitude	41° 34' 38.13"	Longitude	-76° 0' 23.12"
Quad Name	Meshoppen	Quad Code	0637
Wastewater Description: Sewage Effluent			
Receiving Waters	Unnamed Tributary to Susquehanna River (CWF, MF)	Stream Code	29242
NHD Com ID	66405797	RMI	1.35
Drainage Area	0.53 mi ²	Yield (cfs/mi ²)	0.1
Q ₇₋₁₀ Flow (cfs)	0.053	Q ₇₋₁₀ Basis	State-wide default
Elevation (ft)	930	Slope (ft/ft)	-
Watershed No.	4-G	Chapter 93 Class.	CWF, MF
Existing Use	-	Existing Use Qualifier	-
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	Impaired		
Cause(s) of Impairment	ORGANIC ENRICHMENT, ORGANIC ENRICHMENT, TOTAL SUSPENDED SOLIDS (TSS), TOTAL SUSPENDED SOLIDS (TSS)		
Source(s) of Impairment	MUNICIPAL POINT SOURCE DISCHARGES, MUNICIPAL POINT SOURCE DISCHARGES, MUNICIPAL POINT SOURCE DISCHARGES, MUNICIPAL POINT SOURCE DISCHARGES		
TMDL Status	-	Name	-
Nearest Downstream Public Water Supply Intake	Danville Borough Water Authority		
PWS Waters	Susquehanna River	Flow at Intake (cfs)	-
PWS RMI	122.58	Distance from Outfall (mi)	≈ 86.74

Treatment Facility Summary				
Treatment Facility Name: Aqua Pennsylvania Wastewater, Inc. Washington Park WWTP				
WQM Permit No.	Issuance Date			
6609401	4/20/2009			
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Extended Aeration	Ultraviolet	0.037 (2015-2017)
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.07	117	Not Overloaded	Aerobic Sludge Digestor	Hauled

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** 0.07
Latitude 41° 34' 37.00" **Longitude** -76° 0' 24.00"
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 ₅	25.0	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	50.0	IMAX	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended Solids	30.0	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	60.0	IMAX	133.102(b)(2)	92a.47(a)(2)
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)
Dissolved Oxygen	5.0	Minimum	-	BPJ

Water Quality-Based Limitations

The following limitations were determined through water quality modeling:

Parameter	Limit (mg/l)	SBC	Model
Total Residual Chlorine	0.26	Average Monthly	WQM 7.0
Ammonia-Nitrogen	7.65	Average Monthly	
Nov 1 - Apr 30	15.3	IMAX	
Ammonia-Nitrogen	2.55	Average Monthly	
May 1 - Oct 31	5.1	IMAX	

Anti-Backsliding

No limitations were made less stringent.