

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

**NPDES PERMIT FACT SHEET  
INDIVIDUAL SEWAGE**

Application No. PA0060551  
APS ID 593236  
Authorization ID 1273261

**Applicant and Facility Information**

Applicant Name	<u>Aqua Pennsylvania Wastewater, Inc.</u>	Facility Name	<u>Aqua Pennsylvania Wastewater, Inc. Rivercrest WWTP</u>
Applicant Address	<u>762 W. Lancaster Avenue</u> <u>Bryn Mawr, PA 19010</u>	Facility Address	<u>70 Black Diamond Beach Road</u> <u>Tunkhannock, PA 18657</u>
Applicant Contact	<u>Curt Steffy</u>	Facility Contact	<u>Robert Soltis</u>
Applicant Phone	<u>(610) 645-1122</u>	Facility Phone	<u>(570) 443-7099</u>
Client ID	<u>62614</u>	Site ID	<u>256500</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Tunkhannock Township</u>
Connection Status	<u>-</u>	County	<u>Wyoming</u>
Date Application Received	<u>May 3, 2019</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>May 15, 2019</u>	If No, Reason	
Purpose of Application	<u>Renewal of an existing NPDES permit to discharge up to 0.175 mgd of treated sewage.</u>		

**Summary of Review**

The applicant is requesting renewal of NPDES Permit No. PA0060551 to authorize a discharge of up to 0.175 MGD of treated sewage from a minor sewage treatment plant into the Susquehanna River in State Water Plan watershed 04-G. Per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than the designated use (WWF, MF). The discharge is not expected to affect public water supplies. The receiving segment of the Susquehanna River is listed as being impaired for 'Fish Consumption' per the 2018 Pennsylvania Integrated Water Quality Monitoring and Assessment Report. The impairment causes are listed as Mercury and PCBs, and the sources are listed as unknown.

As per PA Code 92a.47(a)(8), which references 92a.48(b)(2), a monthly average TRC facility-specific BAT effluent limit of 0.5 mg/L and an IMAX limit of 1.6 mg/L is applied to the permit with a 4-year compliance schedule. This is a reduction from the existing limitations of 1.0 mg/L and 2.0 mg/L, respectively. The measurement frequency for Ammonia-Nitrogen has increased from 1/month to 1/week in accordance with Table 6-3 of DEP's Technical Guidance for the Development and Specification of Effluent Limitations. The measurement frequency for Total Kjeldahl Nitrogen, Nitrate-Nitrite, Total Nitrogen, and Total Phosphorous has increased from 1/year to 1/quarter in order capture the seasonal variability of the facility's nutrient effluent.

The October and September 2019 'Sewage Sludge/Biosolids Production and Disposal' Supplementary Reports declared that Russell Reid Wastewater Management hauled liquid sludge from the facility to the Greater Hazleton Joint Sewer Authority.

WQM Permit #6618403 was issued in 2018 for the upgrade of the facility's headworks and chlorine system.

The WMS query 'Inspections Report' was performed. A 'Compliance Evaluation' was performed on 8/14/19; no violations were noted. The WMS query 'Open Violations by Client Report' was performed. There are no open violations.

Approve	Deny	Signatures	Date
X		Joseph Cherinko (signed) Joseph Cherinko, E.I.T. / Environmental Engineering Specialist	April 15, 2020
X		Amy M. Bellanca, P.E. / Environmental Engineer Manager	

**Summary of Review**

The existing NPDES permit expired on October 31, 2019. The renewal application was received timely on May 3, 2019.

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)	.0875
Latitude	41° 30' 21"	Longitude	-75° 56' 5"
Quad Name	Tunkhannock	Quad Code	0638
Wastewater Description: Sewage Effluent			
Receiving Waters	Susquehanna River (WWF, MF)	Stream Code	6685
NHD Com ID	66408323	RMI	201
Drainage Area	9,440 mi <sup>2</sup>	Yield (cfs/mi <sup>2</sup> )	0.084
Q <sub>7-10</sub> Flow (cfs)	735	Q <sub>7-10</sub> Basis	USGS Gage 1533400
Elevation (ft)	578'	Slope (ft/ft)	-
Watershed No.	4-G	Chapter 93 Class.	WWF, MF
Existing Use	-	Existing Use Qualifier	-
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	Impaired		
Cause(s) of Impairment	Mercury, Polychlorinated Biphenyls (PCBs)		
Source(s) of Impairment	Sources Unknown		
TMDL Status	Final, 03/12/1999	Name	Susquehanna River PCB
Background/Ambient Data		Data Source	
pH (SU)	-		-
Temperature (°F)	-		-
Hardness (mg/L)	-		-
Other:	-		-
Nearest Downstream Public Water Supply Intake	PA American Water Co. Springbrook		
PWS Waters	Susquehanna River	Flow at Intake (cfs)	812
PWS RMI	182	Distance from Outfall (mi)	19

**Other Comments:**

Yield determined using USGS Gage 1533400 (Drainage Area: 8,720 mi<sup>2</sup>, Q<sub>7-10</sub>: 735 cfs)

Treatment Facility Summary				
<b>Treatment Facility Name:</b> Rivercrest Development				
<b>WQM Permit No.</b>		<b>Issuance Date</b>		
6618403		10/5/2018		
6672403-T1		10/16/2002		
6674402		1974		
6672403		8/15/1972		
<b>Waste Type</b>	<b>Degree of Treatment</b>	<b>Process Type</b>	<b>Disinfection</b>	<b>Avg Annual Flow (MGD)</b>
Sewage	Secondary	Extended Aeration	Hypochlorite	0.021 (2018)
<b>Hydraulic Capacity (MGD)</b>	<b>Organic Capacity (lbs/day)</b>	<b>Load Status</b>	<b>Biosolids Treatment</b>	<b>Biosolids Use/Disposal</b>
0.175	145	Not Overloaded	Holding Tank	Hauled from site in liquid form

**Development of Effluent Limitations**

Outfall No. 001  
 Latitude 41° 30' 18.00"  
 Wastewater Description: Sewage Effluent

Design Flow (MGD) .0875  
 Longitude -75° 55' 59.00"

**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)
	50.0	IMAX	-	-
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)
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)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)
	1.6	IMAX	-	-

**Water Quality-Based Limitations**

The following limitations were determined through water quality modeling:

Parameter	Limit (mg/l)	SBC	Model
Dissolved Oxygen	5.0	Minimum	WQM 7.0

**Comments:**

The permitted Total Residual Chlorine has decreased from 1.0 to 0.5 mg/L average monthly, and from 2.0 to 1.6 mg/L instantaneous maximum. The more stringent Total Residual Chlorine go into effect 4-years after permit issuance.