pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northeast Regional Office
CLEAN WATER PROGRAM

NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE

Application Type	**Renewal**	Application No.	**PA0061719**
Facility Type	**Non-Municipal**	APS ID	**621181**
Major / Minor	**Minor**	Authorization ID	**1226116**

Applicant and Facility Information

Applicant Name	**Aqua Pennsylvania Wastewater, Inc. (APW)**	Facility Name	**Aqua Pennsylvania Wastewater, Inc. Pinecrest WWTP**
Applicant Address	762 West Lancaster Avenue	Facility Address	Tamaqua Lake Road
	Bryn Mawr, PA 19010-3489		Pocono Pines, PA 18350
Applicant Contact	Curt R. Steffy, Vice President	Facility Contact	Robert J. Soltis
Applicant Phone	(610) 645-1122	Facility Phone	(570) 443-7099
Client ID	62614	Site ID	450326
Ch 94 Load Status	Not Overloaded	Municipality	Tobyhanna Township
Connection Status	No Limitations	County	Monroe
Date Application Received	March 29, 2018	EPA Waived?	Yes
Date Application Accepted	May 8, 2018	If No, Reason	-
Purpose of Application	Renewal of NPDES permit for discharge of treated sewage.		

Summary of Review

The applicant is requesting renewal of an NPDES permit to discharge up to 0.500 MGD of treated sewage to Beaver Creek, a High Quality-Cold Water Fishery, Migratory Fish (HQ-CWF, MF) designated receiving stream in State Water Plan Basin 2-A (Upper Lehigh River). 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. This stream segment is 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 Dissolved Oxygen, $CBOD_5$, Nitrate-Nitrite as N, and Total Phosphorous and are water quality-based and carried over from the previous permit. Monitoring and reporting for Total Nitrogen and Total Kjeldahl Nitrogen are also carried over from the previous permit.

WQM modeling recommended stricter limitations for Ammonia-Nitrogen (1.9 mg/L monthly average, 3.8 mg/L IMAX). Wintertime monitoring/reporting for Ammonia-Nitrogen has also been updated for three times the new summertime limitations (5.7 mg/L monthly average, 11.4 mg/L IMAX). These limitations will come into effect three (3) years after the permit effective date (see Part C.IV.). The limitations for Ammonia-Nitrogen from the previously issued permit will be in effect the first three (3) years of the permit.

The previous permit included limits for Total Residual Chlorine (TRC) to provide the treatment facility the ability to feed chlorine in the event of a UV disinfection system failure. The TRC limits are only applicable in the event of such an emergency. The TRC Calculation Spreadsheet recommends more stringent water quality-based limitations. The permittee will be required to meet the new water quality-based limits for TRC starting three years after the effective date of the permit (see Part C.III.).

Approve	Deny	Signatures	Date
X		Allison Seyfried / Environmental Engineering Specialist	March 15, 2019
X		Amy M. Bellanca, P.E. / Environmental Engineer Manager	March 15, 2019

Summary of Review

A final Total Maximum Daily Load (TMDL) exists for the Lehigh River Watershed. The TMDL addresses metals (iron, manganese, and aluminum) associated with acid mine drainage (AMD). There are no approved Waste Load Allocations (WLA) for this facility. Since this is a sewage discharge with no industrial contributors, no appreciable quantities of these metals are expected to be present in the effluent.

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).

As per the permittee's Biosolids Production and Disposal supplemental DMR form from January 2019, sludge is hauled to the Greater Hazelton Joint Sewer Authority in West Hazelton Borough by Russel Reid Wastewater Management.

The existing permit expired on 6/30/2018 and the application for renewal was received late on 3/29/18. A Water Management System Inspection query was performed and indicated that on 11/21/2018 a Routine/Partial Inspection was performed with No Violations Noted.

There are currently two (2) open violation for this client that may need to be resolved before issuance of the final permit:

1. 10/24/2018 - Violation ID 835198 – Violation Code: CSL201 -- CSL-Unauthorized, unpermitted discharge of sewage to waters of the Commonwealth (Program Specific ID: PA0061590).

2. 12/19/2018 - Violation ID 837529 – Violation Code: CSL201 -- CSL-Unauthorized, unpermitted discharge of sewage to waters of the Commonwealth (Program Specific ID: PA0061590).


Watershed Info - Aqua PA Pinecrest.p


WQM Modeling Aqua Pinecrest.pdf


TRC_CALC - Aqua PA Pinecrest.pdf


1987 Pollution Report.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.	001	Design Flow (MGD)	0.500
Latitude	41º 5' 56.08"	Longitude	-75º 26' 59.07"
Quad Name	Pocono Pines	Quad Code	1042
Wastewater Description:	Sewage Effluent		
Receiving Waters	Beaver Creek	Stream Code	4432
NHD Com ID	26284045	RMI	2.30
Drainage Area	0.97 mi^2	Yield (cfs/mi^2)	0.18
Q_{7-10} Flow (cfs)	0.175	Q_{7-10} Basis	Stream Gage 1447680
Elevation (ft)	1,800.5	Slope (ft/ft)	0.0086
Watershed No.	2-A	Chapter 93 Class.	HQ-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	Final	Name	Lehigh River TMDL
Nearest Downstream Public Water Supply Intake	Hazelton City Authority		
PWS Waters	Lehigh River	Flow at Intake (cfs)	77.4
PWS RMI	62.9	Distance from Outfall (mi)	≈ 36.8

Treatment Facility Summary

Treatment Facility Name: Aqua Pennsylvania Wastewater, Inc. Pinecrest WWTP

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Sequencing Batch Reactor	Ultraviolet	0.0316

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.500	42	Not Overloaded	Holding Tank	Hauled

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** 0.500
Latitude 41º 5' 55.00" **Longitude** -75º 26' 58.00"
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
Total Suspended Solids	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	45	Average Weekly	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)

Water Quality-Based Limitations

The following limitations were determined through water quality modeling:

Parameter	Limit (mg/l)	SBC	Model
Dissolved Oxygen	7.0	Minimum	1987 Pollution Report
Total Residual Chlorine*	0.04	Average Monthly	TRC Calculation Spreadsheet
	0.14	IMAX	
$CBOD_5$	10.0	Average Monthly	1987 Pollution Report
	20.0	Average Weekly	
Ammonia-Nitrogen May 1 - Oct 31	1.9	Average Monthly	WQM 7.0 (2019) Modeling
	3.8	IMAX	
Ammonia-Nitrogen Nov 1 - Apr 30	5.7	Average Monthly	
	11.4	IMAX	
Total Phosphorus	1.0	Average Monthly	Lake Model per 1987 Pollution Report
	2.0	IMAX	
Nitrate-Nitrite as N	14.0	Average Monthly	Calculations per 1987 Pollution Report
	28.0	IMAX	

*Use of chlorine is authorized for emergency purposes only, in the event of a UV system failure

Anti-Backsliding

No limitations were made less stringent.