

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

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0070009
 APS ID 1157672
 Authorization ID 1561117

Applicant and Facility Information

Applicant Name	<u>Aqua PA Wastewater Inc.</u>	Facility Name	<u>Aqua PA Cove Village Wastewater Treatment Facility</u>
Applicant Address	<u>1 Aqua Way</u> <u>White Haven, PA 18661-1115</u>	Facility Address	<u>Cove Mountain Drive</u> <u>Zion Grove, PA 17985</u>
Applicant Contact	<u>David Hoogstad</u>	Facility Contact	<u>David Hoogstad</u>
Applicant Phone	<u>(570) 443-7099</u>	Facility Phone	<u>(570) 443-7099</u>
Client ID	<u>62614</u>	Site ID	<u>2763</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>North Union Township</u>
Connection Status		County	<u>Schuylkill</u>
Date Application Received	<u>March 3, 2026</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>March 5, 2026</u>	If No, Reason	
Purpose of Application	<u>Renewal of individual sewage NPDES permit</u>		

Summary of Review

The permittee is applying for renewal of the individual sewage NPDES permit PA0070009 authorizing the Aqua PA Cove Village Wastewater Treatment Facility to discharge 0.1 MGD of treated sewage to the Catawissa Creek. The receiving stream is Catawissa Creek, a Trout-Stocking, Migratory Fishes stream located in PA State Water Plan 05E (Susquehanna). Catawissa Creek is impaired for aquatic life by Acid Mine Drainage and metals, and is included in the Catawissa Creek TMDL caused by metals, pH, aluminum, iron, and manganese. The discharge from the facility is not expected to contribute to the stream's impairment.

The permitted sewage facility has a headworks with mechanical screen and washer/compactor to remove large solids, with a backup bypass channel with a coarse bar rack if the screen is offline. This is followed by extended aeration treatment trains consisting of aeration basins, clarifiers, and sludge holding tanks. Clarified effluent is disinfected by a UV disinfection system and then enters a repurposed chlorine contact tank used for potential post-aeration/effluent storage as needed. Effluent can also be dosed with sodium hypochlorite in the chlorine contact tank if needed. Treated effluent is discharged from outfall 001 to North Branch Susquehanna River.

The following chemicals are added to the wastewater for treatment purposes:

Wastewater Treatment Chemical	Purpose	Maximum Usage Rate	Units
Magnesium Hydroxide	pH adjustment	0.2	GPD
Sodium Hypochlorite (12.5%)	Back-up disinfection	2.5	GPD
Sodium Thiosulfate	Dechlorination	2.5	GPD

Approve	Deny	Signatures	Date
X		<i>Luca Jordache</i> Luca Jordache / Environmental Engineering Trainee	March 11, 2026
X		<i>Edward Dudick</i> Edward Dudick, P.E. / Environmental Engineer Manager	March 12, 2026

Summary of Review

Since the previous permit period, the facility has added two new aeration trains and sludge holding tanks, a UV disinfection system, and magnesium hydroxide disinfection capability. Within the next 5 years the permittee plans on adding a new channel in the headworks building and relocating influent sampler tubing, a new operations building, and plant drain pump station.

Water quality modeling was done for the discharge using WQM 7.0. and the TRC spreadsheet to determine if any updates are necessary for effluent limits. WQM 7.0 modeling did not result in stricter effluent limits for the discharge. Additionally, the DEP's TRC spreadsheet determined that no stricter TRC effluent limits were necessary. The input parameters for these models can be seen on the attached files below also showing the results.

New effluent limitations have been added for CBOD5 and TSS of 40 mg/L weekly average and 45 mg/L weekly average respectively. These limitations are from WQBELs, and it is standard DEP procedure to add them to all new or renewed sewage permits.

The following documents were used or created to aid in the renewal of this permit:



WQM 7.0
Analysis.pdf



Watershed
Information.pdf



TRC_CALC.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 Information	
Outfall No. 001	Design Flow (MGD): 0.1
Latitude: 40° 53' 53"	Longitude: -76° 12' 45"
Wastewater Description: Sewage Effluent	
Receiving Waters Information	
Receiving Waters: Catawissa Creek (TSF, MF)	Stream Code: 27529
NHD Com ID: 65641701	RMI: 23.78
Drainage Area: 62.2 mi ²	Yield (cfs/mi ²): 0.18
Q ₇₋₁₀ Flow (cfs): 11.3	Q ₇₋₁₀ Basis: USGS StreamStats
Elevation (ft): 824	Slope (ft/ft): 0.003
Watershed No. 5-E	Chapter 93 Class: TSF, MF
Existing Use: -	Existing Use Qualifier: -
Exceptions to Use: -	Exceptions to Criteria: -
Assessment Status: Impaired	
Cause(s) of Impairment: METALS	
Source(s) of Impairment: ACID MINE DRAINAGE	
TMDL Status: Final	Name Catawissa Creek TMDL
Water Supply Information	
Nearest Downstream Public Water Supply Intake:	Catawissa Borough Municipal Water Authority
PWS Waters: Catawissa Creek	Flow at Intake (cfs): 27.3
PWS RMI: 1.3	Distance from Outfall (mi): 23.01

Treatment Facility Summary				
Treatment Facility Name: Cove Village				
WQM Permit No.	Issuance Date			
5220403	12/2/2022			
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Activated Sludge	Chlorine	0.1
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.1	340	Not Overloaded		Hauled to other WWTP



Development of Effluent Limitations

Outfall No. 001
Latitude 40° 53' 53.00"
Wastewater Description: Sewage Effluent
Design Flow (MGD) 0.1
Longitude -76° 12' 45.00"

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 ₅	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
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)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)