

Northeast Regional Office CLEAN WATER PROGRAM

Application Type
Renewal
NonMunicipal
Major / Minor
Minor

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No. PA0060593

APS ID 845187

Authorization ID 1329183

		Applicant and Facility Information								
Aqua Pennsylvania Wastewater, Inc.	Facility Name	Laurel Lakes WWTF								
762 W. Lancaster Avenue	Facility Address	End of Laurel Drive								
Bryn Mawr, PA 19010	_	Mountain Top, PA 18707								
Todd Duerr	Facility Contact	Robert Soltis								
(570) 443-7099	Facility Phone	(570) 443-7099								
62614	Site ID	245281								
Not Overloaded	Municipality	Rice Township								
n Status -		Luzerne								
ed October 2, 2020	EPA Waived?	Yes								
ed November 20, 2020	If No, Reason									
	762 W. Lancaster Avenue Bryn Mawr, PA 19010 Todd Duerr (570) 443-7099 62614 Not Overloaded d October 2, 2020	Facility Address Bryn Mawr, PA 19010 Todd Duerr Facility Contact (570) 443-7099 Facility Phone Size ID Not Overloaded Municipality County d October 2, 2020 Facility Address Facility Contact Facility Phone Facility Address								

Summary of Review

The applicant is requesting renewal of NPDES Permit No. PA0060593 to authorize a discharge of 87,500 gpd of treated sewage from a minor sewage treatment plant into Nuangola Outlet (CWF, MF) in State Water Plan Watershed 05-B. Nuangola Outlet does not have an existing use classification. The 2018 Pennsylvania Integrated Water Quality Monitoring and Assessment Report lists Nuangola Outlet as 'Supporting' for Aquatic Life.' The discharge is not expected to affect public water supplies.

In 2019, the annual average flow was 46,400 gpd. The highest monthly average flow in 2019 occurred in April, when the facility discharged 67,400 gpd. The application describes the treatment train: "Wastewater enters the preliminary treatment process, which consists of a comminutor and bypass screen. From there, the wastewater flows into a splitter box, which equally distributes the flow to Aeration Tank No. 1 or No.2 for treatment. From the aeration tank, the wastewater enters a final clarifier. After clarification, the final treatment is chlorine disinfection with contact time provided via contact tanks."

The existing measurement frequencies are in accordance with Table 6-3 of DEP's Technical Guidance for the Development and Specification of Effluent Limitations; they remain unchanged.

The Department's Total Residual Chlorine (TRC) spreadsheet was used to determine the appropriate TRC limits. The average monthly limit will decrease from 0.5 mg/L to 0.12 mg/L. The instantaneous-maximum limit will decrease from 1.6 mg/L to 0.40 mg/L. The new limits go into effect 4 years after the permit effective date.

Water quality modeling was performed in WQM 7.0 to determine the appropriate limits for Ammonia-Nitrogen. The modeling results supported reducing the limits for Ammonia-Nitrogen (May-October) from 12.6 mg/L average monthly and 25.2 mg/L IMAX to 3.3 mg/L and 6.6 mg/L, respectively. The new limits go into effect 4 years after the permit effective date. In addition, a 'Monitor and Report' requirement for Ammonia-Nitrogen (November-April) has been added to the permit. Four years after the permit effective date, the 'Monitor and Report' requirement will transition to a 9.9 mg/L average monthly limit.

Approve	Deny	Signatures	Date
Х		Joseph Cherinko (signed) Joseph Cherinko, P.E. / Environmental Engineering Specialist	February 12, 2021
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Environmental Engineer Manager	2-24-21

Summary of Review

Modeling results supported retaining the existing technology-based limits for CBOD5 (25 mg/L avg. mo, 50 mg/L IMAX).

In accordance with § 92a.47, IMAX limits for Fecal Coliform have been added to the permit: 1,000 and 10,000 CFU/100mL during May-September and October-April, respectively.

The Department received a WQM permit application for the facility on December 21, 2020. The application is for upgrades to components of the wastewater treatment plant, including the influent pump station, comminutor, flow splitter box, chemical feed systems, disinfection system and other associated appurtenances. The addition of an extended aeration treatment train is also proposed. The application is still being processed and the WQM permit has not been issued as of February 12, 2021.

The WMS query 'Inspections' was performed. A 'Compliance Evaluation was performed on August 19, 2020, where 1 violation was noted: "NPDES – Illegal discharge to waters of the Commonwealth from a sanitary sewer overflow (SSO)." The violation was marked 'resolved' on August 20, 2020.

The WMS query 'Open Violations by Client Report' was performed; the applicant has 4 open violations:

Permit	Facility	Program	Violation ID	Region	Date	
0993408	Peddlers View WWTP	WPC State WPC	890201	SERO	7/31/2020	
PA0061719	Pinecrest WWTF	WPC NPDES	904736	NERO	1/15/2021	
PA0228061	New West Side STP	WPC NPDES	905627	NCRO	1/22/2021	
PA0228061	New West Side STP	WPC NPDES	905628	NCRO	1/22/2021	

The facility name has been modified from <u>Aqua PA St Johns Estates</u> in the prior permit to <u>Laurel Lakes WWTF</u> to match the preferred facility name in the renewal application.

Language pertaining to solids management has been added to Part C of the permit.

The existing NPDES permit expires on March 31, 2021. The renewal application was due by October 2, 2020. The application was received via OnBase on October 1, 2020.

Sludge use and disposal description and location(s): The facility produced approximately 127,000 gallons of sewage sludge in 2019. The sludge was hauled to the Greater Hazleton Joint Sewer Authority.

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.

scharge, Receiving	g Water	s and Water Supply Info	rmation			
Outfall No. 001 Latitude 41° 9	9' 14.30"		Design Flow (MGD) Longitude	.0875 -75° 57' 38.10"		
Quad Name Fre	eeland		Quad Code	1038		
Wastewater Descri	ption:	Sewage Effluent				
Receiving Waters	Nuan	gola Outlet (CWF, MF)	Stream Code	28375		
NHD Com ID	65635		RMI	~ 0.75		
Drainage Area	2.21 r		Yield (cfs/mi²)	0.047		
Q ₇₋₁₀ Flow (cfs)	0.104		Q ₇₋₁₀ Basis	USGS StreamStats		
Elevation (ft)	1,139)	Slope (ft/ft)	-		
Watershed No.	5-B		Chapter 93 Class.	CWF, MF		
Existing Use	_		Existing Use Qualifier			
Exceptions to Use	_		Exceptions to Criteria	_		
Assessment Status	;	Attaining Use(s)				
Cause(s) of Impairr	ment					
Source(s) of Impair	ment	-				
TMDL Status		<u>-</u>	Name			
Background/Ambie	nt Data		Data Source			
pH (SU)			<u>-</u>			
Temperature (°F)			_=			
Hardness (mg/L)						
Other:			-			
Nearest Downstrea	ım Publi	c Water Supply Intake	Danville Municipal Water Auth	nority		
PWS Waters	Susquel	nanna River	Flow at Intake (cfs) UNK			
PWS RMI U	UNK		Distance from Outfall (mi)	50+		

Changes Since Last Permit Issuance: -

Other Comments: -

Hauled Off Site

Tank

WQM Permit No.	Issuance Date			
4076422	3/7/1984			
4076421	3/7/1984			
4076420	3/7/1984			
				Avg Annua
Waste Type	Degree of Treatment	Process Type	Disinfection	Flow (MGD)
				0.0464 (2019
Sewage	Secondary	Aeration	Sodium Hypochlorite	0.0669 (2018
				0.0510 (2017
lydraulic Capacity	Organic Capacity			Biosolids
(MGD)	(lbs/day)	Load Status	Biosolids Treatment	Use/Disposa
(11105)	1		Aerated Sludge Holding	

Treatment Facility Summary

Changes Since Last Permit Issuance: -

0.0875

175

Other Comments: In August 2014, a minor amendment was issued for a name change from Little Washington Wastewater Company to Aqua Pennsylvania Wastewater, Inc. It was exclusively a name change; there was no change in the owner/operator for the facilities.

Not Overloaded

Compliance History

DMR Data for Outfall 001 (from January 1, 2020 to December 31, 2020)

Parameter	DEC-20	NOV-20	OCT-20	SEP-20	AUG-20	JUL-20	JUN-20	MAY-20	APR-20	MAR-20	FEB-20	JAN-20
Flow (MGD)												
Average Monthly	0.0475	0.0267	0.0236	0.0214	0.025	0.0262	0.0265	0.048	0.0535	0.0365	0.0467	0.0469
Flow (MGD)												
Daily Maximum	0.3344	0.0538	0.0866	0.0388	0.0566	0.0777	0.1154	0.1543	0.2319	0.0721	0.1124	0.131
pH (S.U.)												
Minimum	6.48	7.2	7.54	7.40	7.01	6.83	6.90	FF	7.0	6.94	7.11	6.56
pH (S.U.)												
Maximum	7.53	7.8	7.75	7.85	7.64	7.50	7.89	FF	7.42	7.94	8.41	8.41
DO (mg/L)												
Minimum	6.9	6.5	6.56	6.38	6.18	6.32	6.14	FF	6.20	8.16	9.88	7.29
TRC (mg/L)												
Average Monthly	0.5	0.5	0.43	0.42	0.5	0.50	0.38	FF	0.36	0.45	0.49	0.50
TRC (mg/L)												
Instantaneous												
Maximum	1.11	1.3	0.63	0.65	1.08	0.85	0.85	FF	0.58	0.92	0.91	0.88
CBOD5 (mg/L)												
Average Monthly	< 2	< 2	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2.0	< 2.0	< 2.0	< 2.0	< 3.0
TSS (mg/L)												
Average Monthly	< 3	4.5	3.50	< 3.0	< 3.0	< 3	< 3.50	< 3.0	3.5	< 3.0	4.5	8.5
Fecal Coliform												
(CFU/100 ml)												
Geometric Mean	< 1	< 1	17.94	< 1.0	1.73	< 1.73	< 6.08	< 1	2.65	< 1.0	< 1.0	7.14
Ammonia (mg/L)												
Average Monthly			< 0.13	< 0.1	0.13	< 0.12	< 6.27	1.39				
Total Phosphorus												
(mg/L)												
Average Monthly	0.2	0.36	0.68	0.76	0.74	0.7	0.74	0.38	0.29	0.25	0.23	0.35