

Northeast Regional Office CLEAN WATER PROGRAM

Application Type

Renewal

Non
Facility Type

Maior / Minor

Minor

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No. PA0063533

945356

Authorization ID 1364852

APS ID

Applicant and Facility Information									
Applicant Name	_Aqua PA Wastewater Inc.	Facility Name	Aqua Blakeslee Tobyhanna Township WWTP						
Applicant Address	762 W Lancaster Avenue	Facility Address	Pa Rte 115 124 Keswick Drive						
	Bryn Mawr, PA 19010		Blakeslee, PA 18360						
Applicant Contact	Todd Duerr	Facility Contact	Robert Soltis						
Applicant Phone	(610) 645-1122	Facility Phone							
Client ID	62614	Site ID	542262						
Ch 94 Load Status	Not Overloaded	Municipality	_Tobyhanna Township						
Connection Status	No Limitations	County	Monroe						
Date Application Rece	eived August 4, 2021	EPA Waived?	Yes						
Date Application Acce	pted August 4, 2021	If No, Reason							

Summary of Review

The application is for a renewal of an NPDES permit for an existing discharge of treated Sewage based on a design flow of 0.3 MGD. The receiving stream, Tobyhanna Creek (HQ-CWF), is located in State Water Plan watershed 2-A and is classified for High Quality Waters - Cold Water Fishes, aquatic life, water supply and recreation. As 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. The discharge is not expected to affect public water supplies.

The effluent limits for Outfall 001 are continued from the previous permit. The CBOD5, TSS and pH effluent limitations are BPT based. The remaining limitations are water quality based. SEJ Approval was granted June 1, 1993. Chapter 94 reporting will continue.

The WMS Report query "Water Management System Inspections" was run. On 07/17/2015 an Administrative/File Review was done with No Violations noted.

The WMS "Open Violations by Client Report" was run and there are No Open Violations.

The Existing Permit expires on January 31, 2022 and the renewal was submitted on August 4, 2021.

Sludge use and disposal description and location(s): GHJSA

Approve	Deny	Signatures	Date
Х		Bernard Feist (signed) Bernard Feist, P.E. / Environmental Engineer	August 25, 2021
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Environmental Engineer Manager	8-31-21

Summary of Review

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

	Design Flow (MGD)	.3			
	Longitude	-75° 34' 53.89"			
	Quad Code				
Sewage Effluent					
hanna Creek	Stream Code	_4357			
3629	RMI	0.9			
	Yield (cfs/mi²)	.12			
	Q ₇₋₁₀ Basis	Gage 014444720 Bull 12			
)	Slope (ft/ft)	.0005			
	Chapter 93 Class.	HQ-CWF			
	Existing Use Qualifier				
	Exceptions to Criteria				
Impaired					
Mercury					
Source Unknown					
Final	Name Lehigh Rive	r TMDL			
	Data Source				
ic Water Supply Intake	Easton				
o Ouppi, milano					
	Flow at Intake (cfs)				
	Sewage Effluent hanna Creek 3629 Impaired Mercury Source Unknown Final	Longitude Quad Code Sewage Effluent hanna Creek 3629 RMI Yield (cfs/mi²) Q7-10 Basis Slope (ft/ft) Chapter 93 Class. Existing Use Qualifier Exceptions to Criteria Impaired Mercury Source Unknown Final Name Lehigh Rive			

Other Comments: SEJ 1996 Modelling ->



Treatment Facility Summary

Treatment Facility Name: Aqua Blakeslee Tobyhanna Township WWTP

Facility was approved by WQM Part II Permit No. 4596402. Existing dwelling units were connected to the newly constructed system in 1999. The year 2000 was the first full year of operation. SEJ Approval was granted June 1, 1993.

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
	Secondary With	Osamon sin n Datah		
	Ammonia And	Sequencing Batch		
Sewage	Phosphorus	Reactor	Ultraviolet	0.3
Hydraulic Capacity	Organic Capacity			Biosolids
(MGD)	(lbs/day)	Load Status	Biosolids Treatment	Use/Disposal

Development of Effluent Limitations								
Outfall No.	001		Design Flow (MGD)	.3				
Latitude	41° 5' 7.00"		Longitude	-75° 34' 54.00"				
Wastewater D	Description:	Sewage Effluent	_					

Technology-Based Limitations

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

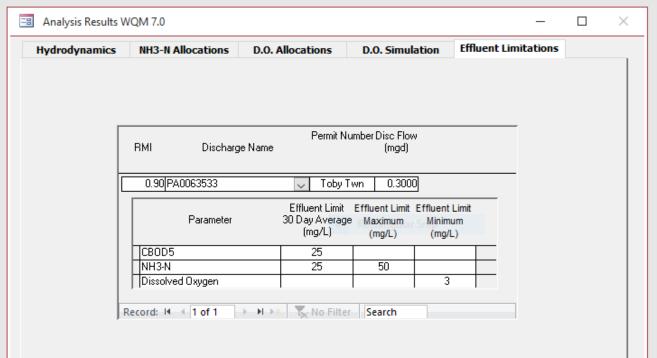
Parameter	Minimum	Average Monthly	Average Weekly	IMAX	Basis	
Flow (MGD)	XXX	Report	Report Max Daily	XXX	§§ 92a.27, 92a.61	
CBOD5 (mg/L)	XXX	25	40	50	§ 92a.47	
TSS (mg/L)	XXX	30	45	60	§ 92a.47	
TRC (mg/L)	XXX	0.5	XXX	1.6	§§ 92a.47-48	
NH3-N (mg/L)	XXX	25	XXX	50	BPJ	
pH (SU)	6	XXX	XXX	9	§ 92a.47, § 95.2	
Total N (mg/L)	XXX	Report	XXX	XXX	§ 92a.61	
Total P (mg/L)	XXX	Report	XXX	XXX	§ 92a.61	
Fecal Coliform (No./100 ml) (May-Sept)	XXX	200 Geo Mean	xxx	1,000	§ 92a.47	
Fecal Coliform (No./100 ml) (Oct-April)	XXX	2,000 Geo Mean	xxx	10,000	§ 92a.47	
E. Coli (No./100 ml)*	XXX	XXX	XXX	Report	§ 92a.61	

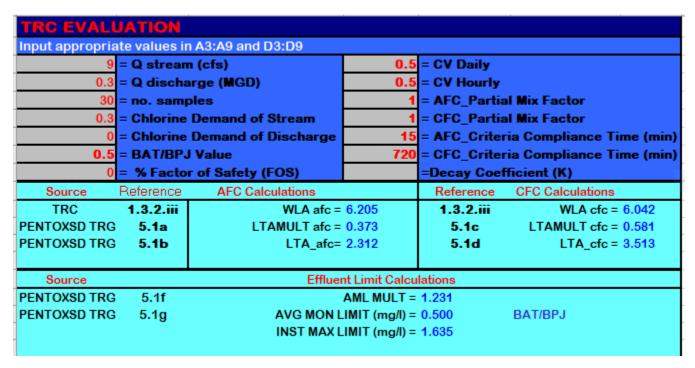
^{* 2021} update - Sewage discharges will include monitoring, at a minimum, for E. Coli, in new and reissued permits, with a monitoring frequency of 1/month for design flows >= 1 MGD, 1/quarter for design flows >= 0.05 and < 1 MGD, 1/year for design flows of 0.002 – 0.05 MGD.

Comments: Quarterly E-Coli, TN & TP reporting will be added to the Permit

Water Quality-Based Limitations

The following limitations were determined through water quality modeling:





☑ Recommended WQBELs & Monitoring Requirements

No. Samples/Month: 4

	Mass	Limits	Concentration Limits			
Pollutants	AML MDL (lbs/day)		AML MDL		IMAX Units	

Other Pollutants without Limits or Monitoring

The following pollutants do not require effluent limits or monitoring based on water quality because reasonable poter concentration was less than thresholds for monitoring, or the pollutant was not detected and a sufficiently sensitive a

Pollutants	Governing WQBEL	Units	Comments
Total Dissolved Solids (PWS)	N/A	N/A	PWS Not Applicable
Chloride (PWS)	N/A	N/A	PWS Not Applicable
Bromide	N/A	N/A	No WQS
Sulfate (PWS)	N/A	N/A	PWS Not Applicable



In general, DEP establish limits in the draft permit where the effluent concentration exceeds 50% of the WQBEL. For non-conservative pollutants, in general, establish monitoring requirements where the effluent concentration determined is between 25% - 50% of the WQBEL. For conservative pollutants, in general, establish monitoring requirements where the effluent concentration determined is between 10% - 50% of the WQBEL. In general, DEP establish limits in the draft permit where the effluent concentration exceeds 50% of the WQBEL. For non-conservative pollutants, in general, establish monitoring requirements where the effluent concentration determined is between 25% - 50% of the WQBEL. For conservative pollutants, in general, establish monitoring requirements where the effluent concentration determined is between 10% - 50% of the WQBEL.

Comments: Toxic Modelling produced no additional limits

Best Professional Judgment (BPJ) Limitations

Comments: 2021 TRC Tech limits imposed if utilized for cleaning or backup to UV.

Anti-Backsliding

1996 Water Quality Modelling will remain in effect

Compliance History

DMR Data for Outfall 001 (from July 1, 2020 to June 30, 2021)

Parameter	JUN- 21	MAY- 21	APR- 21	MAR- 21	FEB- 21	JAN- 21	DEC- 20	NOV- 20	OCT- 20	SEP- 20	AUG- 20	JUL- 20
Flow (MGD)												
Average Monthly	0.1150	0.153	0.1385	0.2293	0.1435	0.1632	0.196	0.1265	0.1186	0.1124	0.1177	0.1371
Flow (MGD) Daily Maximum	0.1816	0.4451	0.2102	0.4905	0.2273	0.236	1.140	0.4459	0.5196	0.1838	0.562	0.3942
pH (S.U.) Minimum	7.1	7.1	7.0	6.9	7.24	7.35	6.72	7.39	6.91	7.51	7.32	7.11
pH (S.U.)												
Maximum	7.9	7.7	7.7	7.6	7.78	7.92	7.80	8.01	8.26	8.19	8.05	8.10
DO (mg/L) Minimum	7.3	8.1	7.5	9.2	10.11	9.65	9.04	8.44	7.5	7.05	6.5	6.36
TRC (mg/L) Average Monthly	GG	GG	GG									
TRC (mg/L) Instantaneous Maximum	GG	GG	GG									
CBOD5 (lbs/day) Average Monthly	< 2.18	< 2.34	< 2.96	< 4.01	< 2.4	< 2.70	< 2.79	< 2.88	< 1.68	< 1.65	< 3.86	< 2.20
CBOD5 (lbs/day) Weekly Average	< 2.51	< 2.88	< 4.45	< 4.69	< 2.71	< 2.96	< 3.07	< 2.27	< 1.84	< 1.92	< 9.37	< 2.45
CBOD5 (mg/L) Average Monthly	< 2.0	< 2.0	< 2.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.5	< 2.0	< 2.0	< 2.0	< 2.0
CBOD5 (mg/L)												
Weekly Average	< 2.0	< 2.0	< 3.0	< 2.0	< 2.0	< 2.0	< 2.0	4.0	< 2.0	< 2.0	< 2.0	< 2.0
BOD5 (mg/L) Raw Sewage Influent br/>	404.00	404	404	400.4	4.47.05	400.05	475	400	000 75	000.00	474.5	450
Average Monthly TSS (lbs/day)	164.20	134	121	100.4	147.25	133.25	175	166	233.75	229.20	174.5	156
Average Monthly TSS (lbs/day)	< 3.3	< 3.51	< 3.88	< 6.01	< 3.60	< 4.05	< 4.19	< 3.35	2.51	< 2.29	< 5.79	< 3.30
Weekly Average	< 3.8	< 4.32	< 4.45	< 7.03	< 4.07	< 4.44	< 4.6	< 3.41	< 2.77	< 2.59	14.06	< 3.68
TSS (mg/L) Average Monthly	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 2.8	< 3.0	< 3.0
TSS (mg/L) Raw Sewage Influent br/>	V 0.0	\ 2.0	V 0.0	V 0.0								
Average Monthly	116.20	99.5	67.5	62.6	103.75	93.75	100.2	125.25	122.75	117.20	101.5	110.5
TSS (mg/L) Weekly Average	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Fecal Coliform (CFU/100 ml)		. 1										.10
Geometric Mean Fecal Coliform (CFU/100 ml)	< 1	< 1	< 1	4.86	1.57	< 1.41	< 1	< 1	< 1	< 1.0	< 1	< 1.0
Instantaneous Maximum	< 1	< 1	< 1	41	3	2.0	< 1	1	< 1	1.0	< 1	< 1.0
Ammonia (lbs/day) Average Monthly	< 0.3	< 0.12	2.37	< 1.67	< 0.19	< 0.47	< 0.14	< 0.11	< 0.08	< 0.08	< 0.19	< 0.11
Ammonia (mg/L) Average Monthly	0.2	< 0.1	1.7	< 0.6	< 0.17	< 0.33	< 0.10	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Total Phosphorus (lbs/day)								211				2.1.4
Average Monthly	0.5	0.6	0.24	0.8	0.50	0.16	0.34	0.44	0.36	0.33	0.90	0.26
Total Phosphorus (mg/L) Average Monthly	0.4	0.6	0.10	0.3	0.42	0.42	0.22	0.40	0.44	0.40	0.25	0.25
Average Monthly	0.4	0.6	0.19	0.3	0.42	0.12	0.23	0.40	0.41	0.40	0.35	0.25