pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northeast Regional Office
CLEAN WATER PROGRAM

NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE

Application Type	**Renewal**	Application No.	**PA0043311**
Facility Type	**Non-Municipal**	APS ID	**606815**
Major / Minor	**Minor**	Authorization ID	**1452039**

Applicant and Facility Information

Applicant Name	**Camp Towanda Inc.**	Facility Name	**Camp Towanda STP**
Applicant Address	4 York Court	Facility Address	700 Niles Pond Road
	New City, NY 10956-4418		Honesdale, PA 18431
Applicant Contact	Mitch Reiter	Facility Contact	Michael Notarangelo
Applicant Phone	(845) 639-4582	Facility Phone	(570) 253-3266
Client ID	165856	Site ID	261175
Ch 94 Load Status	Not Overloaded	Municipality	Lebanon Township
Connection Status	-	County	Wayne
Date Application Received	August 2, 2023	EPA Waived?	Yes
Date Application Accepted	October 24, 2023	If No, Reason	-

Purpose of Application: RENEWAL OF EXISTING NPDES PERMIT.

Summary of Review

This is a 0.027 MGD NPDES Permit Renewal for a seasonal camp STP, discharging to Trib 05995 To Big Brook (EV, MF) in the Delaware River watershed.

- **Application**:
  - On-Base# 117553
  - On-Base# 127176 (revised application)
- Facilities Flows Per Application: Based on historical data, sanitary wastewater is generated during camping season (June through September), with precipitation received throughout year, with discharges from April through October.
  - Annual Average Daily Flows: 0.0011 MGD (2020/Covid), 0.0070 MGD (2021), and 0.0065 MGD (2022)
  - Highest Monthly Average Flow: 0.0270 MGD (October)
- Permittee EIN number: No. 22-3046857. Corrected in E-facts (after assurance received from permittee).
- WQM Permits: Facility indicates it lost historical records (including copies of the WQM permits) during a November 8, 2016 flooding incident per 10/24/2023 Attorney (Mintz & Gold) Letter. The Letter noted previous ownership changes since original facility permitting (1964). (One previous permittee was Kupet Realty Corp., Client# 36938.)
- DRBC Docket: Facility indicates that it does not have a DRBC Docket.

Sludge use and disposal description and location(s): 14,000 gallons of septic tanks volume removed each year. No removal from lagoon

Special Conditions: Changes bolded.
Part A.I.A Footnote: **Annual sampling must occur during the summer Camp operating season**, not in December or other “no discharge month”.
Part C Conditions: Changes Bolded:

Approve	Deny	Signatures	Date
X		James D. Berger (signed) James D. Berger, P.E. / Environmental Engineer	October 7, 2024
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Acting Engineer Manager	10-9-24

Summary of Review

- Part C.I.A, B, C, and D: Existing Stormwater prohibition; Necessary property rights; Residuals Management; and Planning.
- Part C.I.E: Existing chlorine minimization condition
- **Part C.I.F: New WQM Permit condition requiring WQM Permit application at least 90 days prior to next lagoon sludge removal project (Part C.II.A) to show that facility will meet then-current PA Domestic Wastewater Facilities Manual (DWFM) requirements and in accordance with Chapter 91.35 (impoundment) which places the burden on the person operating the impoundment to demonstrate the impoundment is structurally sound, impermeable, protected from unauthorized acts of third parties and maintained with a minimum 2-foot freeboard.**
    - It is normal industry practice to inspect and repair/replace lagoon impoundment liner systems (as needed) during sludge removal projects. The installed circa-1965 clay liner is in unknown condition and the 1964 impoundment design would not likely meet current DEP Domestic Wastewater Facilities Manual wastewater pond/impoundment requirements. There is no existing lagoon impoundment leak detection zone or groundwater monitoring well system to detect leakage or groundwater contamination. Last sludge cleanout was circa 2001 per application, but no file documentation of clay liner inspection and/or replacement/repair was found.
    - The Application indicates an average 9-inch sludge depth (Upper Lagoon) and 6-inch sludge depth (Lower Lagoon) in a 2023 check, based on a depth from an unidentified high water level. The existing permit condition requirements (a sampling grid shall be established for each lagoon in a manner that will measure deposition throughout the lagoon) was not clearly met. (Original 1964 WQM design drawings indicated a 1550 Feet operating level in the Upper Lagoon and 1535 Feet operating level in the lower lagoon, with both having a 5-foot operating depth and 2-feet freeboard):
        - Upper Lagoon Sludge Depths: They estimated an average sludge depth of 9 inches for all three sampling locations (with EPA warning that sludge judges cannot penetrate sludge to liner/subbase, potentially underestimating sludge thickness by 33% or more):
            - 7 feet 1.5 inches depth from unidentified highwater level.
            - 6 feet 5.5 inches depth from unidentified highwater level.
            - 6 feet 10 inches depth from unidentified highwater level.
        - Lower Lagoon Sludge Depths: They estimated an average sludge depth of 6 inches for all three sampling locations (with EPA warning that sludge judges cannot penetrate sludge to liner/subbase, potentially underestimating sludge thickness by 33% or more):
            - 6 feet depth from unidentified highwater level.
            - 5 feet 9 inches depth from unidentified highwater level.
            - 5 feet 5 inches depth from unidentified highwater level.
- Part C.I.G: Existing Discharge reporting (formerly Part C.III) condition: The permittee shall notify the Department's Northeast Region Clean Water Monitoring and Compliance section by phone at least 24 hours prior to commencement of each discharge.
- **Part C.I.H: New condition specifying marking of 5-foot operating level and minimum 2 feet freeboard requirement (Chapter 91.35) to allow for visual confirmation of operating levels.** The 2019 DEP Inspection Report's identified freeboard levels (8 – 10 feet in the Upper Lagoon; 6 – 8 feet in the Lower Lagoon) was in a facility designed for a 5-foot water operating level and only 2 feet of freeboard (per original drawings) might indicate potential infringement on the minimum operating water levels required for biological treatment.
- Part C.II: Existing Solids Management Conditions (lagoons) including annual sludge depth monitoring & reporting requirement. **Part C.II.B reporting language expanded to explicitly include removal of septic tank sludge in addition to lagoon sludge**.

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)	.027
Latitude	41º 41' 8.08"	Longitude	-75º 16' 5.05"
Quad Name	Aldenville	Quad Code	0543 (2.22.1)
Wastewater Description:	Sewage Effluent		
Receiving Waters	Unnamed Tributary of Big Brook (EV-CWF, MF)	Stream Code	5995
NHD Com ID	25920550	RMI	-
Drainage Area	0.42 square miles	Yield (cfs/mi^2)	0.0361
Q_{7-10} Flow (cfs)	0.015	Q_{7-10} Basis	See below
Elevation (ft)	~1514 (USGS Terrain mapper)	Slope (ft/ft)	-
Watershed No.	1-B	Chapter 93 Class.	HQ-CWF, MF
Existing Use	**EV**	Existing Use Qualifier	-
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment	**-**		
Source(s) of Impairment	**-**		
TMDL Status	**-**	Name	**-**

Background/Ambient Data: None available		Data Source
pH (SU)	-	-
Temperature (°F)	-	-
Hardness (mg/L)	-	-
Other:	-	-

Nearest Downstream Public Water Supply Intake		Easton Area Water System	
PWS Waters	Delaware River	Flow at Intake (cfs)	-
PWS RMI	-	Distance from Outfall (mi)	>50 miles

Changes Since Last Permit Issuance: None known.

Other Comments:

- STP located by headwaters (Sunset Lake, without any dam shown on E-maps). The UNT flows through a wet area prior to confluence with another UNT (EV, Stream# 5996) and then to Big Brook (EV; Stream# 5992; Natural Trout Reproduction stream) flows into Dyberry Creek that flows into the Lackawaxen River that flows into the Delaware River.
- E-maps show the camp drinking water sources are upslope from the STP area.
- Q7-10: Using the LFY Method, with reference point downstream (0.473 CFS/13.1 square mile, at confluence with Big Brook) results in an LFY of 0.0361 CFS/square mile, substantially below the 0.1 CFS/square mile default used in the previous NPDES Permit renewal. Historically, previous Water Pollution Control Report determinations were also lower.

Treatment Facility Summary

Treatment Facility Name: Camp Towanda Inc. STP

WQM Permit No.	Issuance Date	Scope
164S1	3/20/1964	Original STP Permitting per 1984 NPDES WPC Report. Available design drawings indicated: Upper Lagoon: Operating water level of 1550 feet, 5 feet operating depth, 1V:3H sideslopes, 2 feet freeboard Lower Lagoon: Operating water level of 1535 Feet, 5 feet operating depth, 1V:3H sideslopes, 2-feet freeboard, effluent structure Chlorinator
6403403	1/30/2004	Installation of surface aerators in existing wastewater treatment lagoons, and a new effluent flow meter. De-chlorination and post-aeration per WQM application process flow diagram. Six new aerators in Lagoon No. 1 and two new aerators in Lagoon No. 2. Post-aeration was to be conducted after chlorination. Upper lagoon had 4 MG capacity (200 feet by 280 feet) and (150 feet by 100 feet) lower lagoon with 1 MG capacity per WQM permit figures. No information on lagoon depth or liner system design.

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Aeration Lagoon	Liquid/tablet chlorination with tablet de-chlorination	0.0270 (permit basis flow)

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.0270	68*	Not Overloaded	-	Disposal offsite

*per 2003 WQM permit.

Changes Since Last Permit Issuance: None known. No upgrades planned.

Other Comments:

This is a seasonal camp STP. The application noted that solids from camping activities are captured by septic tanks and hauled offsite. Based on historical data, sanitary wastewater is generated during camping season (June through September), with precipitation received throughout year, with discharges from April through October.

Application Description: Septic tanks (primary solids removal), primary and secondary lagoons, (sodium hypochlorite liquid with tablet back-up) chlorine disinfection, de-chlorination (sodium bisulfite), and post-aeration. An effluent composite sampler has been installed. Soda ash is used for pH control.

- Application indicates the lagoons have a clay liner system, installed circa 1965.
- The application indicates there are no existing groundwater monitoring points onsite.
- The lagoons' sludge depths were measured on 9/18/2023, with 9-inches in Lagoon No. 1 (estimated 50% of trigger point for cleanout) and 6-inches in Lagoon No. 2 (estimated 33% of trigger point for cleanout).
    - The Upper Lagoon was described as 175-feet by 247-feet with measured depths of between 82.5-inches to 85.5-inches depth (measured at 3 locations from high water level).
    - The Lower Lagoon was described as 132-feet by 112-feet with measured depths of 65-inches to 72-inches (measured at 3 locations from high water level).
    - Both lagoons were last dredged in 11/19/2001, after 30-years of service.

  NOTE: They might be underestimating sludge thicknesses per EPA technical seminar indicating often ~33% underestimates of sludge levels (sludge judges not penetrating to liner or subbase layer) when not comparing measurements directly with known subbase elevations. Present condition of underlying clay layer unknown.

9/18/2024 DEP Inspection Report Description:

- The treatment system consists of two lagoons, a chlorine contact/discharge tank, a disinfection/flow meter building, and an outfall area. Wastewater from six septic tanks around the camp enters the upper lagoon via a gravity-flow underground piping system. The upper lagoon contains six aerators and a valve-controlled gravity discharge pipe which must be manually opened to allow discharge into the lower lagoon. The lower lagoon contains two aerators. The chlorine contact tank sits at the end of the lower lagoon. A valve-controlled discharge pipe must be manually opened to allow flow from the chlorine contact tank into the discharge tank which contains the effluent flow meter and a v-notch weir to the outfall. The disinfection/flow meter building sits above the discharge tank and contains the chlorine feed system, the effluent flow meter read-out, and dechlorination tablet storage. Discharge flow from the plant is sent to Outfall 001 down a length of black corrugated pipe which is cut in half, lengthwise. Dechlorination tablets are added in the half-pipe prior to the outfall. **NOTE**: 6/26/2019 DEP Inspection report noted primary settlement occurs in the six septic tanks prior to reaching the lagoons.
- The plant is operated seasonally between May and October each year depending on lagoon levels. Mixers are pulled from both lagoons around the beginning October every year and valves are kept in the closed position to disallow discharge between October and May. All six septic tanks are cleaned-out twice per year.
- Sodium bicarbonate: two 50-lbs bags are spread by hand on the surface of the upper lagoon daily.
- There was no discharge during the 9/18/2024 DEP Inspection.
- Photos of Lagoon Impoundments showed green surface (duckweek or algae) for majority of lagoons' surface area. The 6/26/2019 DEP Inspection Report indicated duckweek was present in the lagoons (50% coverage in the upper lagoon and patches in the lower lagoon), but the onsite staff stated that the duckweed does not cause any operational issues with the treatment plant at that time. The problem has apparently gotten worse.
- The 2024 Report did not identify the minimum freeboard (with photos indicating >2 feet of freeboard present). The 2019 Report indicated there had been 8 – 10 feet of freeboard in the upper lagoon and 6 – 8 feet of freeboard in the lower lagoon, but original design drawings indicated only 2 feet of freeboard with a 5-foot operating water level depth. It is unclear if they were maintaining minimum water operating depths at that time. The 2023 sludge sampling depths indicated ~5 feet of operating depth at the time of sludge sampling.

Compliance History

DMR Data for Outfall 001 (from September 1, 2023 to August 31, 2024)

Parameter	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24	FEB-24	JAN-24	DEC-23	NOV-23	OCT-23	SEP-23
Flow (MGD) Average Monthly	0.0259	0.0265	0.0270									0.0260
Flow (MGD) Daily Maximum	0.0458	0.0529	**0.526**									0.0554
pH (S.U.) Instantaneous Minimum	7.73	7.70	7.09									7.94
pH (S.U.) Instantaneous Maximum	8.27	8.07	7.85									8.42
DO (mg/L) Instantaneous Minimum	7.9	8.0	8.3									7.4
TRC (mg/L) Average Monthly	**0.03**	**0.03**	**0.04**									**0.03**
TRC (mg/L) Instantaneous Maximum	**0.08**	**0.08**	**0.13**									**0.11**
CBOD5 (mg/L) Average Monthly	< 3.0	< 3.0	< 3.0									< 3.2
TSS (mg/L) Average Monthly	< 1.6	< 1.8	8.0									5.1
Fecal Coliform (No./100 ml) Geometric Mean	2.9	4.1	< 1.0									< 7.4
Fecal Coliform (No./100 ml) Instantaneous Maximum	4.1	4.1	< 1.0									50.4
Nitrate-Nitrite (mg/L) Annual Average									**< 1.2**			
Total Nitrogen (mg/L) Annual Average									**< 3.8**			
Ammonia (mg/L) Average Monthly	**< 0.56**	**< 0.15**	**< 0.10**									**< 0.67**

TKN (mg/L) Annual Average									**2.64**			
Total Phosphorus (mg/L) Annual Average									2.92			

DMR Data for Outfall 001 (from July 1, 2022 to June 30, 2023)

Parameter	JUN-23	MAY-23	APR-23	MAR-23	FEB-23	JAN-23	DEC-22	NOV-22	OCT-22	SEP-22	AUG-22	JUL-22
Flow (MGD) Average Monthly	0.0151								0.0120	0.0270		0.0256
Flow (MGD) Daily Maximum	0.0467								0.0458	0.0550		0.0554
pH (S.U.) Instantaneous Minimum	7.26								8.30	8.28		7.39
pH (S.U.) Instantaneous Maximum	8.24								8.87	8.58		8.42
DO (mg/L) Instantaneous Minimum	7.1								8.8	7.8		6.2
TRC (mg/L) Average Monthly	**0.05**								**0.05**	**0.05**		**0.05**
TRC (mg/L) Instantaneous Maximum	**0.13**								**0.11**	**0.15**		**0.14**
CBOD5 (mg/L) Average Monthly	5.3								9.3	< 3.0		6.1
TSS (mg/L) Average Monthly	4.8								13.6	8.4		9.4
Fecal Coliform (No./100 ml) Geometric Mean	3.3								1.0	< 1.0		43.0
Fecal Coliform (No./100 ml) Instantaneous Maximum	11.0								1.0	< 1.0		913.9
Nitrate-Nitrite (mg/L) Annual Average							**1.0**					

Total Nitrogen (mg/L) Annual Average							**1.7**					
Ammonia (mg/L) Average Monthly	**0.26**								**0.15**	**< 0.1**		**1.29**
TKN (mg/L) Annual Average							**0.7**					
Total Phosphorus (mg/L) Annual Average							**1.27**					

Compliance History

Inspection History (2018 – To date):

SITE NAME	INSP PROGRAM	INSP ID	INSPECTED DATE	INSP TYPE	INSPECTION RESULT DESC	# OF VIOLATIONS
CAMP TOWANDA	WPCNP	3813915	09/18/2024*	Administrative/File Review	Violation(s) Noted	1
CAMP TOWANDA	WPCNP	3836368	08/13/2024	Compliance Evaluation	No Violations Noted	0
CAMP TOWANDA	WPCNP	2902393	06/26/2019*	Compliance Evaluation	No Violations Noted	0

*9/18/2024 DEP Inspection Report indicates site inspection in addition to the Administrative/File Review Inspection.

Comments:

8/13/2024 Notice of Violation: Low DO (below Inst. Min limit) in July 2023, 2022, and 2019. 8/23/2024 Response Letter (Fulford) indicated facility has difficulty meeting DO limit during July high temperature months, and has instituted a procedure to cease discharge until the 7.0 mg/l instantaneous minimum DO limit is met.

TP and TN Sampling: They are reporting annual results for December sampling, which are indicated as “no discharge months” and not when the Plant is operating or wastewater being generated. This raises questions of whether they are not reporting discharge flows and whether the results can possibly be representative as required.

Compliance History: No open violations per 10/4/2024 WMS Query (Open Violations by Client Number):

Client ID: 165856
Client: All

Open Violations: 0
No data was found using the criteria entered. Please revise your choices and try again.

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** .027
Latitude 41º 41' 8.18" **Longitude** -75º 16' 4.36"
Wastewater Description: Sewage Effluent

Permit Limits and/or Monitoring: Changes bolded

Parameter	Limit (mg/l unless otherwise specified)	SBC	Model/Basis
CBOD5	**Report (lb/d)** **Report (lb/d)** 25.0 **50.0** 50.0	**Monthly Average** **Daily Max** Monthly Average **Daily Max** IMAX	Existing WQBEL supported by water quality modeling. Application data: 10.19 mg/l max and 4.7 mg/l average (18 samples)
TSS	**Report (lb/d)** **Report (lb/d)** 30.0 **60.0** 60.0	**Monthly Average** **Daily Max** Monthly Average **Daily Max** IMAX	Existing WQBEL Application data: 23.2 mg/l max and 7.1 mg/l average (18 samples)
pH	6.0 – 9.0 SU	Inst. Min - IMAX	Existing Technology limit (Chapter 92a.47) Application data: 6.81 – 8.87 SU (138 samples)
DO	7.0	Inst. Min	Existing WQBEL supported by water quality modeling. Application data: 6.2 mg/l minimum and 7.4 mg/l max (138 samples)
Fecal Coliform (5/1 – 9/30)	200/100 ml 1,000/100 ml	Geo Mean IMAX	Existing Technology limit (Chapter 92a.47). Application data: 43/100 ml max and 3/100 ml average (18 samples)
Fecal Coliform (10/1 – 4/30)	2,000/100 ml 10,000 ml/100 ml	Geo Mean IMAX	Existing Technology limit (Chapter 92a.47).
E Coli	**Report/100 ml**	**IMAX**	**New annual monitoring requirement due to new Chapter 93 WQS.**
Total Residual Chlorine	**0.06** **0.20**	Average Monthly IMAX	**New WQBEL per updated water quality modeling. Old limits not protective of EV stream. Old limits were 0.14 mg/l average monthly and 0.44 mg/l IMAX. Application & EDMR data indicates facility can comply with more stringent permit limits.** Application data: 0.15 mg/l max and 0.05 mg/l average (138 samples) EDMR: See table below.
Ammonia-Nitrogen (May 1 - Oct 31)	**Report (lb/d)** **Report (lb/d)** **2.27** **4.54** **4.54**	**Monthly Average** **Daily Max** Monthly Average **Daily Max** IMAX	**New WQBEL per updated water quality modeling. Old limits not protective of EV stream. Old limits were 3.0 mg/l monthly average and 6.0 mg/l. Application & EDMR data indicates facility can comply with more stringent permit limits.** Application data: **2.4** mg/l max and 0.12 mg/l average (3 samples) EDMR data: See Table below.

Ammonia-Nitrogen (Nov 1 - Apr 30)	**Report (lb/d)** **Report (lb/d)** **6.81** **13.62** **13.62**	**Monthly Average** **Daily Max** Monthly Average **Daily Max** IMAX	**See above.** Old limits were 9.0 mg/l monthly average and 18.0 mg/l (but no winter discharge being reported). Standard winter multiplier used.
Total Phosphorus	**Report (lb/d)** **Report (lb/d)** Report **Report**	**Annual Average** **Daily Max** Annual Average **Daily Max**	Existing annual monitoring requirement (Chapter 92a.61). Application data: 2.92 mg/l max and 1.61 mg/l average (3 samples). **Sampling in December (no loading/no discharge month)**
Total Nitrogen (Nitrate-N + Nitrite-N + TKN measured in same sample)	**Report (lb/d)** **Report (lb/d)** Report **Report**	**Annual Average** **Daily Max** Annual Average **Daily Max**	Existing annual monitoring requirement (Chapter 92a.61). Application data: **Sampling in December (no loading/no discharge month)** TN: 3.6 mg/l max and 2.3 mg/l average (3 samples) Nitrate-N: <0.2 mg/l (3 samples) Nitrite-N: <1.0 mg/l (3 samples) TKN: 2.64 mg/l max and 1.28 mg/l average (3 samples)

Comments:

- Additional mass loading reporting.
- Daily max limits set to IMAX limits (as any duration of exceedance of an IMAX limit would be an IMAX exceedance)
- Daily monitoring frequencies changed to “daily when discharging” due to potential no discharge days during months when discharge occurs.
- Antidegradation: No additional degradation expected in the absence of any new, increased or additional loading. Facility was permitted in 1964, prior to Antidegradation regulations and (HQ/EV) designation of receiving watershed, per 10/25/1984 Water Pollution Control Report, so loading is grandfathered unless levels conflict with Chapter 93 Water Quality Standards. Facility is seasonal camp discharge, and thus with limited seasonal loadings. The stream is attaining at present.

WQM Model 7.1.1: Indicates more stringent Ammonia-N limits must be met to protect the waters of the Commonwealth.

WQM 7.0 Effluent Limits

SWP Basin	Stream Code	Stream Name
01B	5995	Trib 05995 to Big Brook

RMI	Name	Permit Number	Disc Flow (mgd)	Parameter	Effl. Limit 30-day Ave. (mg/L)	Effl. Limit Maximum (mg/L)	Effl. Limit Minimum (mg/L)
2.010	Camp Towanda	PA0043311	0.027	CBOD5	25		
				NH3-N	2.27	4.54	
				Dissolved Oxygen			7

CampTowandaWQMMod.pdf

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EDMR Data for Ammonia-N and TRC

MONITORING END DATE	PARAMETER	CONC UNITS	CONC 2 VALUE	CONC 2 LIMIT	CONC 2 SBC	SAMPLE FREQUENCY
04/30/2019	Ammonia-Nitrogen	mg/L	0.30	9.0	Average Monthly	2/month
05/31/2019	Ammonia-Nitrogen	mg/L	1.36	3.0	Average Monthly	2/month
07/31/2019	Ammonia-Nitrogen	mg/L	0.30	3.0	Average Monthly	2/month
08/31/2019	Ammonia-Nitrogen	mg/L	0.30	3.0	Average Monthly	2/month
09/30/2019	Ammonia-Nitrogen	mg/L	0.30	3.0	Average Monthly	2/month
11/30/2019	Ammonia-Nitrogen	mg/L	0.83	9.0	Average Monthly	2/month
04/30/2020	Ammonia-Nitrogen	mg/L	0.30	9.0	Average Monthly	2/month
08/31/2020	Ammonia-Nitrogen	mg/L	0.3	3.0	Average Monthly	2/month
05/31/2021	Ammonia-Nitrogen	mg/L	0.1	3.0	Average Monthly	2/month
06/30/2021	Ammonia-Nitrogen	mg/L	0.1	3.0	Average Monthly	2/month
07/31/2021	Ammonia-Nitrogen	mg/L	0.13	3.0	Average Monthly	2/month
09/30/2021	Ammonia-Nitrogen	mg/L	0.1	3.0	Average Monthly	2/month
10/31/2021	Ammonia-Nitrogen	mg/L	0.1	3.0	Average Monthly	2/month
06/30/2022	Ammonia-Nitrogen	mg/L	0.10	3.0	Average Monthly	2/month
07/31/2022	Ammonia-Nitrogen	mg/L	1.29	3.0	Average Monthly	2/month
09/30/2022	Ammonia-Nitrogen	mg/L	< 0.1	3.0	Average Monthly	2/month
10/31/2022	Ammonia-Nitrogen	mg/L	0.15	3.0	Average Monthly	2/month
06/30/2023	Ammonia-Nitrogen	mg/L	0.26	3.0	Average Monthly	2/month
07/31/2023	Ammonia-Nitrogen	mg/L	< 2.21	3.0	Average Monthly	2/month
08/31/2023	Ammonia-Nitrogen	mg/L	< 0.20	3.0	Average Monthly	2/month
09/30/2023	Ammonia-Nitrogen	mg/L	< 0.67	3.0	Average Monthly	2/month
06/30/2024	Ammonia-Nitrogen	mg/L	< 0.10	3.0	Average Monthly	2/month

Approve	Deny	Signatures	Date
X		James D. Berger (signed) James D. Berger, P.E. / Environmental Engineer	October 7, 2024
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Acting Engineer Manager	10-9-24

07/31/2024	Ammonia-Nitrogen	mg/L	< 0.15	3.0	Average Monthly	2/month
08/31/2024	Ammonia-Nitrogen	mg/L	< 0.56	3.0	Average Monthly	2/month
04/30/2019	Total Residual Chlorine (TRC)	mg/L	0.03	0.14	Average Monthly	1/day
05/31/2019	Total Residual Chlorine (TRC)	mg/L	0.04	0.14	Average Monthly	1/day
07/31/2019	Total Residual Chlorine (TRC)	mg/L	0.04	0.14	Average Monthly	1/day
08/31/2019	Total Residual Chlorine (TRC)	mg/L	0.08	0.14	Average Monthly	1/day
09/30/2019	Total Residual Chlorine (TRC)	mg/L	**0.11**	0.14	Average Monthly	1/day
11/30/2019	Total Residual Chlorine (TRC)	mg/L	0.04	0.14	Average Monthly	1/day
04/30/2020	Total Residual Chlorine (TRC)	mg/L	0.02	0.14	Average Monthly	1/day
08/31/2020	Total Residual Chlorine (TRC)	mg/L	**0.07**	0.14	Average Monthly	1/day
05/31/2021	Total Residual Chlorine (TRC)	mg/L	0.06	0.14	Average Monthly	1/day
06/30/2021	Total Residual Chlorine (TRC)	mg/L	0.05	0.14	Average Monthly	1/day
07/31/2021	Total Residual Chlorine (TRC)	mg/L	0.05	0.14	Average Monthly	1/day
09/30/2021	Total Residual Chlorine (TRC)	mg/L	0.05	0.14	Average Monthly	1/day
10/31/2021	Total Residual Chlorine (TRC)	mg/L	0.05	0.14	Average Monthly	1/day
06/30/2022	Total Residual Chlorine (TRC)	mg/L	0.06	0.14	Average Monthly	1/day
07/31/2022	Total Residual Chlorine (TRC)	mg/L	0.05	0.14	Average Monthly	1/day
09/30/2022	Total Residual Chlorine (TRC)	mg/L	0.05	0.14	Average Monthly	1/day
10/31/2022	Total Residual Chlorine (TRC)	mg/L	0.05	0.14	Average Monthly	1/day
06/30/2023	Total Residual Chlorine (TRC)	mg/L	0.05	0.14	Average Monthly	1/day
07/31/2023	Total Residual Chlorine (TRC)	mg/L	0.04	0.14	Average Monthly	1/day
08/31/2023	Total Residual Chlorine (TRC)	mg/L	0.06	0.14	Average Monthly	1/day
09/30/2023	Total Residual Chlorine (TRC)	mg/L	0.03	0.14	Average Monthly	1/day
06/30/2024	Total Residual Chlorine (TRC)	mg/L	0.04	0.14	Average Monthly	1/day
07/31/2024	Total Residual Chlorine (TRC)	mg/L	0.03	0.14	Average Monthly	1/day
08/31/2024	Total Residual Chlorine (TRC)	mg/L	0.03	0.14	Average Monthly	1/day