Effluent Quality Assessment of Miller Street WWTF Clay County NPDES # FL0025151 Sampled April 10, 12, 14, & 20, 2023

Division of Environmental Assessment and Restoration
Florida Department of Environmental Protection
June 2023

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Summary of Results

Cyanide was detected in the effluent grab and field blank samples at levels that exceeded the Class III Water Quality Criterion for Marine Waters and effluent permit limit. The AGP and nutrient results do not suggest a potential for nutrient enrichment of the receiving waters. Thirteen organic constituents were detected in the effluent grab sample. Organic constituent results were Y-qualified due to the presence of residual chlorine in the samples.

Facility Overview

The Miller Street WWTF is a domestic wastewater treatment facility. A Facility Summary, including a description of the facility, summary of permit limits, and any relevant Administrative Order (AO), Consent Order (CO), and Discharge Monitoring Report (DMR) information is provided in Appendix A. The effluent is continuously discharged into the St. Johns River, a Class III Marine Water [waterbody identification (WBID) 2213G] (Figure 1).

Receiving waters for this facility fall under the Estuary-Specific Numeric Interpretations of the Narrative Nutrient Criteria (NNC) for the Lower St. Johns River and Tributaries. For this region, the NNC, expressed as annual loads are 722,834 kg/yr total phosphorus and 1,376,855 kg/yr total nitrogen. The chlorophyll *a* criterion is 5.4 µg/L (Subparagraph 62-302.532(1)(bb)(1), F.A.C.). For Class III predominantly marine waters, the daily average dissolved oxygen (DO) saturation shall not be below 42 percent in more than 10 percent of the values (Subsection 62-302.533(2), F.A.C.). This FYI event only provides single sample results. It should be noted that waterbody impairment assessments are based on longer-term data, and individual exceedances of a criterion do not indicate use impairment. http://ca.dep.state.fl.us/mapdirect/?focus=nutrientcriteria

Methods

Effluent 24-hour time-proportioned composite samples were collected from monitoring site location EFD-1 for outfall D-001 on April 10, 2023. Effluent renewal composite samples were collected on April 12 and 14, 2023. Effluent grab samples were collected from monitoring site location EFA-1 for outfall D-001 on April 20, 2023. The permit specifies flow-proportioned composite samples for some analytes and time-proportioned composite samples were collected. Grab sample permit limits apply to monitoring site EFD-1 but grab samples were collected from EFA-1, immediately after disinfection and prior to dechlorination, because the facility was not discharging at the time of sampling. Organic constituent results were Y-qualified due to the presence of residual chlorine in the samples. Chlorine was not measured during sampling at EFA-1 because a probe was not available. There is a permit limit for CBOD but samples were not collected for this analysis because of conflicts with the discharge and sampling schedules.

Samples were collected by Philippe Hook, Conor Lucey, and Lydia Joyner (Northeast District). Analyses were performed by Diversified Environmental Laboratories in Jacksonville, Eurofins Savannah, Eurofins Pensacola, and DEP Laboratory in Tallahassee.

All field and laboratory methods followed DEP Standard Operating Procedures (see https://floridadep.gov/dear/quality-assurance/content/dep-sops and https://floridadep.gov/dear/florida-dep-laboratory/content/dep-laboratory-quality-assurance-manual-and-sops for details) and met DEP quality assurance/quality control standards (see https://floridadep.gov/dear/quality-assurance). Explanations of specific methods and measurements can be found in Appendix B.

Class III Water Quality Criteria for Fresh and Marine Waters are found in Chapter 62-302, F.A.C. All references to Rule 62-302.530, F.A.C. are to the surface water quality criteria table with an effective date of 02/17/2016 and a notice identification number of 17115667.

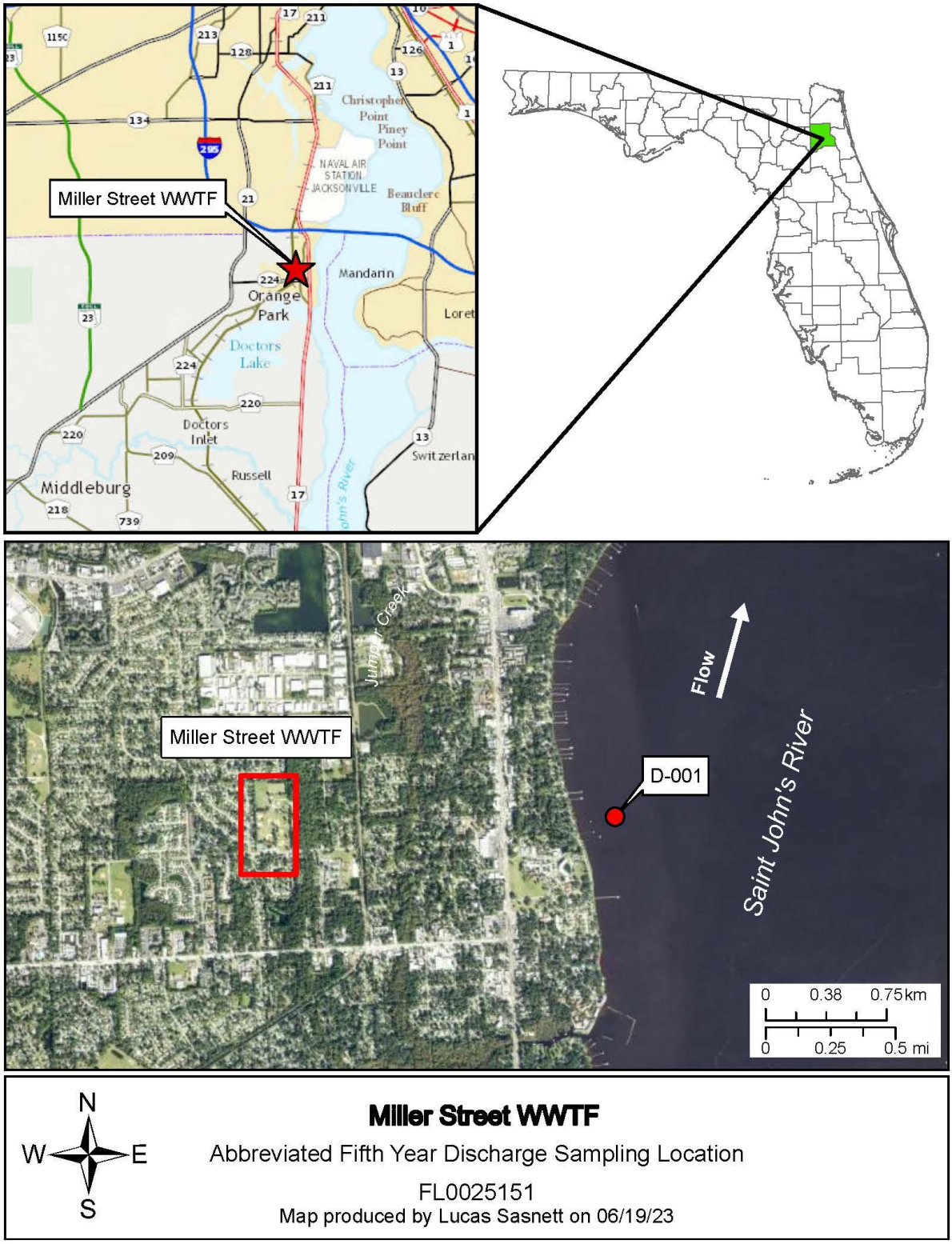


Figure 1. Map of Facility and Discharge Location

Results

Physical and Chemical Parameters (See Table 1 and Appendices C & D)

- All effluent water quality parameters measured at EFA-1 complied with Class III Water Quality Criteria for Marine Waters and effluent permit limits for EFD-1.

Analytical Water Chemistry (See Table 2 and Appendix D)

- Cyanide detected in the effluent grab sample at EFA-1 exceeded the Class III Water Quality Criterion for Marine Waters (Subsection 62-302.530(24), F.A.C.) and the effluent permit limit at EFD-1. Cyanide was also detected in the field blank at levels that exceeded these limits.

- Total phosphorus, total ammonia nitrogen, nitrate and nitrite, total Kjeldahl nitrogen, total organic carbon, and cyanide were detected in the field blank.

Microbiology (See Table 2 and Appendix B)

- The effluent enterococci level complied with the Class III Water Quality Criterion for Marine Waters. The effluent enterococci and fecal coliform levels at EFA-1 complied with the effluent permit limits at EFD-1.

Toxicity Whole Effluent Test (See Table 2)

- Tests were performed April 11 through April 18, 2023.

- Chronic bioassay results are reported as the 25% Inhibition Concentration (IC25). An IC25 is the effluent concentration causing a 25% reduction in a biological response such as biomass or reproduction when compared to a control population. An IC25 of less than 100% in a chronic test may constitute exceedances of Subsection 62-302.200(5), Subsection 62-302.530(20) and/or facility permit limits.

- During the chronic definitive bioassay, the effluent time-proportioned composite sample IC25 for the mysid, *Americamysis bahia*, and the IC25 for the fish, *Menidia beryllina*, were calculated as being greater than 100% effluent, and therefore complied with effluent permit limits for a flow-proportioned composite sample.

- Aliquots of the bioassay sample were salinity-adjusted according to method requirements from an apparent salinity of approximately 0.4 parts per thousand (ppth) to a salinity of approximately 19.9 ppth for the *Americamysis bahia* test and to a salinity of approximately 4.6 ppth for the *Menidia beryllina test*. Control mortality, for both the test controls and salt-adjusted control, were within method acceptance criteria.

- For more information or to obtain copies of the toxicity bench sheets, please contact the Biology Laboratory at 850-245-8177.

Metals (See Table 3 and Appendix D)

- Effluent metals complied with Class III Water Quality Criteria for Marine Waters. The effluent mercury level at EFA-1 complied with the effluent permit limit at EFD-1.

Algal Growth Potential (See Table 4 and Appendix B)

- The freshwater unicellular green alga, *Pseudokirchneriella subcapitata,* and marine species, *Dunaliella tertiolecta*, were used to determine the AGP values in the effluent grab sample. The analytical chemistry suggests that the effluent is nitrogen-limited (Miller et al. 1978).

- The effluent grab sample AGP result of 4.90 mg dry wt/L is within the AGP range (0.81 to 6.00 mg dry wt/L) suggested to be representative of moderately high productivity for freshwater (Miller et al. 1978). The AGP value for the marine species, *Dunaliella tertiolecta*, was non-detect.

- An aliquot of the AGP sample was salinity adjusted from an apparent salinity of approximately 0.33 parts per thousand (ppth) to a salinity of approximately 7.1 ppth by the addition of artificial sea salts to meet the salinity requirements of the test species *Dunaliella tertiolecta*.

- Total residual chlorine (TRC) was detected in the grab sample in the laboratory at 5.1 mg/L. An aliquot of this sample was dechlorinated by the addition of sodium thiosulfate. The same concentration of sodium thiosulfate was added to the dechlorinated test controls. Results were reported on the dechlorinated sample and dechlorinated salinity adjusted sample. Non-dechlorinated sample and salinity adjusted sample were tested alongside dechlorinated samples for comparison.

- Differences greater than an order of magnitude between actual and predicted AGP values are considered sufficient evidence to warrant follow up testing with the algal growth inhibition bioassay. True algal growth inhibition can only be determined by performing an actual algal growth inhibition test. Should algal growth inhibition be suspected, the district should request that the algal growth inhibition test be performed as a follow-up to the inspection.

Organic Constituents (See Table 5 and Appendix D)

- Atrazine, atrazine desethyl, chlorfenapyr, dithiopyr, fipronil desulfinyl, fipronil sulfide, fluxapyroxad, loratadine, phenytoin, simazine, tebuconazole, hexachlorocyclopentadiene, and hexachloroethane were detected in the effluent grab sample. Results were Y-qualified due to the presence of residual chlorine in the samples.

- These organic constituents include four herbicides or metabolites, three insecticides or metabolites, two fungicides, two pharmaceuticals, one pesticide intermediate, and one chemical manufacture intermediate.

- There are no effluent permit limits for organic constituents.

Literature Cited

Miller, W. E., Maloney, T. E. and Greene, J. C. 1978. The *Selenastrum capricornutum* Printz algal assay bottle test. EPA600/978-018. U. S. EPA, Cincinnati, Ohio. 126 p.

Stevenson, R. J. and Bahls, L. L. 1999. Periphyton protocols. Pp. 6.1-6.22 in: Rapid bioassessment protocols for use in wadeable streams and rivers. 2nd edition. By: M. T. Barbour, J. Gerritsen, B. D. Snyder and J. B. Stribling. EPA 841-B-99-002. U. S. Environmental Protection Agency, Office of Water, Washington, D. C.

USEPA. 2000. Nutrient Criteria Technical Guidance Manual – River and Streams. EPA-822-B-00-002.

Table 1. Measured field parameters

Effluent limits, Class III Water Quality Criteria for Marine Waters, and field parameters

Parameter	Units	Class III Criteria	Effluent Permit Limits EFD-1	Effluent Grab EFA-1
Temperature	C	-	-	24.4
pH	SU	6.5 - 8.5	6.5 - 8.5	7.6
Specific Conductance	µmhos/cm	-	-	789
Salinity	ppt	-	-	0.4 c
Dissolved Oxygen	% saturation	≥ 42	-	94.0
Dissolved Oxygen	mg/L	-	≥ 5.0	7.8

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
c - Value is calculated

Table 2. Analytical water chemistry, microbiological, and toxicological data

Effluent limits, Class III Water Quality Criteria for Marine Waters, and analytical water chemistry, microbiological, and toxicological data

Analyte	Units	Class III Criteria	Effluent Permit Limits EFD-1	Effluent Composite EFD-1	Effluent Grab EFA-1
Ortho-phosphate	mg P/L	-	Report	-	1.3
Total Phosphorus [1]	mg P/L	-	Report	1.1	1.5
Total Ammonia Nitrogen [1]	mg N/L	-	-	0.041	0.006
Un-ionized Ammonia (calc salinity)	mg N/L	-	-	-	< 0.02 c
Nitrate and Nitrite [1]	mg N/L	-	Report	1.9	1.3
Total Kjeldahl Nitrogen [1]	mg N/L	-	Report	0.66	0.58
Organic Nitrogen	mg N/L	-	Report	0.62 c	0.57 c
Total Nitrogen	mg N/L	-	Report	2.6 c	1.9 c
Total Organic Carbon [1]	mg C/L	-	-	-	6.0 A
Chlorophyll *a* - Corrected	µg/L	≤ 5.4	-	-	0.82 U
Phaeophytin	µg/L	-	-	-	0.90 U
Hardness	mg CaCO3/L	-	-	-	159 c
Total Suspended Solids	mg/L	-	≤ 60.0 sp	2 U	2 I
Turbidity	NTU	≤ 29 t	-	-	0.65 I
Color (true)	PCU	-	-	-	2.5 U
Alkalinity	mg CaCO3/L	-	-	-	117 A
Chloride	mg Cl/L	-	-	-	93 A
Cyanide [1]	mg/L	≤ 0.001	≤ 0.001	-	0.0050 IJ e
Fluoride	mg F/L	≤ 5.0	-	-	0.58
Sulfate	mg SO4/L	-	-	-	110
Fecal Coliforms	cfu/100 mL	-	≤ 800 s	-	2.0 U
Enterococci	MPN/100 mL	≤ 130	≤ 130	-	1.0 U
Bioassay - Mysid *(A. bahia)*	% effluent	-	≥ 100 sp	> 100	-
Bioassay - Fish *(M. beryllina)*	% effluent	-	≥ 100 sp	> 100	-

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.

e - Value exceeds the Class III Water Quality Criteria or permit limits

c - Value is calculated

p - 24 hour flow proportioned composite

s - Single sample

t - Shall not exceed 29 NTUs above background

A - Value reported is the mean of two or more determinations

I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit

J - Estimated value

U - Material analyzed for but not detected; value reported is the method detection limit
1 - Analyte detected in the field blank

Table 3. Analytical metals data

Effluent limits, Class III Water Quality Criteria for Marine Waters, and analytical metals data

Analyte	Units	Class III Criteria	Effluent Permit Limits EFD-1	Effluent Grab EFA-1
Aluminum	µg/L	≤ 1500	-	5.0 I
Arsenic	µg/L	≤ 50	-	0.18 I
Cadmium	µg/L	≤ 8.8	-	0.020 U
Calcium	mg/L	-	-	36.6
Chromium, Total [2]	µg/L	≤ 50	-	0.40 U
Copper	µg/L	≤ 3.7	-	0.66 I
Iron	µg/L	≤ 300	-	79 I
Lead	µg/L	≤ 8.5	-	0.20 U
Magnesium	mg/L	-	-	16.4
Mercury	ng/L	≤ 25	≤ 25	0.84
Nickel	µg/L	≤ 8.3	-	1.1 I
Potassium	mg/L	-	-	13.5
Selenium	µg/L	≤ 71	-	0.20 U
Silver	µg/L	≤ 2.3	-	0.010 U
Sodium	mg/L	-	-	92.8
Zinc	µg/L	≤ 86	-	25

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
U - Material analyzed for but not detected; value reported is the method detection limit
2 - Class III Marine Water Quality Criterion (62-302.530(19)(b), F.A.C.) is for chromium-VI

Table 4. Algal Growth Potential (AGP)

Measured and predicted algal growth potential (AGP; mg dry weight/L) for total soluble inorganic nitrogen (TSIN), ortho-phosphate (OP), total nitrogen (TN) and total phosphorus (TP) limitation and ratios of nitrogen to phosphorus

Location	Test Species	AGP (measured)	Predicted AGP (TSIN) ± 20%	Predicted AGP (OP) ± 20%	Predicted AGP (TN) ± 20%	Predicted AGP (TP) ± 20%	Inorganic N:P ratio	Total N:P ratio
Effluent Grab -Dechl.	*Pseudokirchneriella subcapitata*	4.90 A	50 ± 9.9	560 ± 110	71 ± 14	650 ± 130	1	1.3
Effluent Grab -Dechl.	*Dunaliella tertiolecta*	3.00 U	not applicable [3]	not applicable [3]	not applicable [3]	not applicable [3]	1	1.3

A - Value reported is the mean of two or more determinations

U - Material analyzed for but not detected; value reported is the method detection limit

3 - predictions not applicable to marine matrix

Table 5. Detected Organic Constituents

Effluent limits, Class III Water Quality Criteria for Marine Waters, and analytical organic and pesticide data

Analyte	Units	Class III Criteria	Effluent Permit Limits	Effluent Grab EFA-1
Atrazine	ng/L	-	-	29 Y
Atrazine Desethyl	ng/L	-	-	3.8 IY
Chlorfenapyr	ng/L	-	-	3.5 Y
Dithiopyr	ng/L	-	-	1.7 IVY
Fipronil Desulfinyl	ng/L	-	-	0.35 IY
Fipronil Sulfide	ng/L	-	-	0.78 Y
Fluxapyroxad	ng/L	-	-	0.44 IY
Loratadine	ng/L	-	-	5.9 Y
Phenytoin	ng/L	-	-	30 Y
Simazine	ng/L	-	-	2.6 Y
Tebuconazole	ng/L	-	-	10 Y
Hexachlorocyclopentadiene	µg/L	-	-	0.46 Y
Hexachloroethane	µg/L	-	-	0.18 IY

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
V - Analyte was detected in both sample and method blank
Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.

Appendix A. Facility Summary

PART I: Information gathered prior to sampling event	
Prepared By: Ian Watkins	**Contact Number:** (904) 256-1573
Facility Name (as it appears on permit): Miller Street WWTF	**Former Names:** N/A
NPDES Permit Number: FL0025151	**Permit Expiration Date:** 7/18/2024
Physical Address: 1601 Bartlett Avenue Orange Park, Florida 32073	
District: Northeast District	**County:** Clay
Function of Facility: Domestic Wastewater Treatment	
Facility Type: DW NPDES Major	**Permitted Capacity (MGD):** 5.0 MGD
Mean Flow for previous 12 months for all EXTERNAL outfalls listed in permit (list date range including months): 0.339	
If applicable, Mean Flow for previous 12 months for REUSE outfall(s) (list date range including months): 0.921	
Description of type of Discharge: ☒ **Continuous** ☐ **Intermittent** ☐ **Seasonal** ☐ **Rainfall Dependent** ☐ **Other, please specify:**	
Description of Sampling Location(s) - actual permit designation of permitted sampling point(s): EFD-1 Effluent sample point immediately after dechlorination and prior to discharge from Outfall D-001. CAL-1 Calculated percent removal of CBOD5 or TSS CAL-2 Calculated mass load of TN or TP. SWD-1 Ambient sample point approximate 200 feet (61 m) north of the POD at WIM station 21FLA20030502, at 30° 10' 33.6" N; 81° 41' 40.7" W (See Figure 1) SWD-2 Ambient sample point approximate 790 feet (240 m) south of the POD at WIM station 21FLA20030503, at 30° 10' 24.5" N; 81° 41' 41.3" W (See Figure 1) SWB-1 Ambient sample point approximate 852 feet (250 m) east of the POD at WIM station 21FLA20030502, at 30° 10' 33.6" N; 81° 41' 40.7" W (See Figure 1) EFA-1 Effluent sample point immediately after disinfection and prior to dechlorination EFA-2 Sample point immediately after high-level disinfection EFB-1 Sample point immediately after filtration and before disinfection.	

CAL-3 Calculated percent of the fecal coliform values shall be below the detection limits.

INF-1 Influent point to treatment train prior to any biological, chemical, or physical treatment or dilution.

CAL-4 Calculated percent three month average daily flow

Description of Permitted Outfall(s):
Surface Water Discharge D-001: An existing 5.0 MGD AADF discharge to St. Johns River, Class III Marine waters (WBID# 2213G), through Outfall D-001 which is a single 18-inch iron pipe extending approximately 940 feet into the river. The pipe was installed with a minimum of 18 inches of cover and is directed up to the river bottom where it terminates in a single 18-inch diffuser port with at a water depth of 2.8 m at MLW. The point of discharge is located approximately at latitude 30° 10' 32" N, longitude 81° 41' 39" W.

Land Application R-001: An existing 3.0 MGD AADF permitted capacity slow-rate public access system. R-001 is a reuse system which consists of Miller Street service area.

Description of Treatment Process (if multiple discharge points, include a detailed map or diagram of facility):
An existing 5.0 million gallons per day (MGD) annual average daily flow (AADF) design capacity oxidation ditch activated sludge wastewater treatment facility (WWTF) consisting of the following major components:

• Four rotary wedge wire screens (two Hycor and two IPEC) with 0.1” openings. Each screen has a maximum capacity of 2,500 gpm.
• One grit chamber with a dimension of 21’ X 28’ X 12’ divided into two compartments.
• Two surge tanks with total capacity of 0.613 MG.
• Two 2.0 MG oxidation ditches with two 75-hp and one 50-hp brush rotors per basin.
• Four clarifiers with 65’ diameter, 14’ depth and total surface area of 13,273 SF each.
• One 98,000-gal dual compartment chambers with 40’ X 66’ X 5’ dimension (formerly used for chlorine contact chamber) that is being utilized to screen grease ball.
• Two traveling bridge sand filters with a dimension of 16’ X 50’ each.
• Two chlorine contact chambers with effective volume of 213,000 gallons each.
• One 2.2 MG ground storage tank for reuse water storage.
• Biochem Neutralizer System (BCR) to process sludge consisting of 2 polymer feed systems, two 15,000-gal process tanks, and one CENTRYSIS 2-phase centrifuge.
• A vacuum truck dumping station to dewater sludge.
• Lakeside septage acceptance plant to accept septic waste from outside of the facility.
• This facility can receive secondary treated wastewater from the Town of Orange Park and then treat it to meet Public access use quality with filtration and high level disinfection.

PART I: Continued

List <u>current</u> Effluent Limits of Outfall(s) to be Sampled: This should include any AO or CO limits the facility may be under
(Leave cell blank if not applicable)

			Effluent Limitations		Monitoring Requirements			
Parameter	**Units**	**Max/ Min**	**Limit**	**Statistical Basis**	**Frequency of Analysis**	**Sample Type**	**Monitoring Site**	**Notes**
Flow	MGD	Max	4.99	Annual Average	Continuous *(During Discharge)*	Recording Flow Meter with Totalizer	EFD-1	
		Max	Report	Monthly Average				
BOD, Carbonaceous 5 day, 20C	mg/L	Max	17.0	Annual Average	Weekly *(During Discharge)*	24-hr FPC	EFD-1	
		Max	21.25	Monthly Average				
		Max	25.5	Weekly Average				
		Max	34.0	Single Sample				
Solids, Total Suspended	mg/L	Max	20.0	Annual Average	Weekly *(During Discharge)*	24-hr FPC	EFD-1	
		Max	30.0	Monthly Average				
		Max	45.0	Weekly Average				
		Max	60.0	Single Sample				
Solids, Total Suspended, % Removal	percent	Min	85.0	Monthly Average	Monthly *(During Discharge)*	Calculated	CAL-1	
pH	s.u.	Max	8.5	Single Sample	Continuous	Meter	EFD-1	

			Effluent Limitations		Monitoring Requirements			
Parameter	**Units**	**Max/ Min**	**Limit**	**Statistical Basis**	**Frequency of Analysis**	**Sample Type**	**Monitoring Site**	**Notes**
		Min	6.5	Single Sample	*(During Discharge)*			
Coliform, Fecal	#/100mL	Max	200	Monthly Geometric Mean	Weekly *(During Discharge)*	Grab	EFD-1	
		Max	200	Annual Average				
		Max	400	90th Percentile				
		Max	800	Single Sample				
Enterococci	#/100mL	Max	35	Monthly Geometric Mean	Weekly *(During Discharge)*	Grab	EFD-1	
		Max	130	90th Percentile				
Chlorine, Total Residual (For Disinfection)	mg/L	Min	0.5	Single Sample	Continuous *(During Discharge)*	Meter	EFA-1	
Chlorine, Total Residual (For Dechlorination)	mg/L	Max	0.01	Single Sample	Daily *(During Discharge)*	Grab	EFD-1	
Oxygen, Dissolved (DO)	mg/L	Min	5.0	Single Sample	Daily *(During Discharge)*	Meter	EFD-1	
Nitrogen, Total (as N)	mg/L	Max	Report	Annual Average	Weekly *(During Discharge)*	24-hr FPC	EFD-1	
		Max	Report	Monthly Average				
		Max	Report	Single Sample				
Nitrogen, Total Load (as N)	lb/month	Max	Report	Monthly Total	Monthly	Calculated	CAL-2	
	lb/year	Max	Report	Annual Total				

			Effluent Limitations		Monitoring Requirements			
Parameter	**Units**	**Max/ Min**	**Limit**	**Statistical Basis**	**Frequency of Analysis**	**Sample Type**	**Monitoring Site**	**Notes**
Phosphorus, Total (as P)	mg/L	Max	Report	Annual Average Monthly Average Single Sample	Weekly *(During Discharge)*	24-hr FPC	EFD-1	
		Max	Report					
		Max	Report					
Phosphorus, Total Load (as P)	lb/month	Max	Report	Monthly Total	Monthly	Calculated	CAL-2	
	lb/year	Max	Report	Annual Total				
Nitrite plus Nitrate, Total 1 det. (as N)	mg/L	Max	Report	Annual Average	Quarterly	24-hr FPC	EFD-1	
		Max	Report	Single Sample				
Nitrogen, Kjeldahl, Total (as N)	mg/L	Max	Report	Annual Average	Quarterly	24-hr FPC	EFD-1	
		Max	Report	Single Sample				
Nitrogen, Ammonia, Total (as N)	mg/L	Max	Report	Annual Average	Quarterly	24-hr FPC	EFD-1	
		Max	Report	Single Sample				
Nitrogen, Organic, Total (as N)	mg/L	Max	Report	Annual Average	Quarterly	24-hr FPC	EFD-1	
		Max	Report	Single Sample				
Phosphate, Ortho (as P)	mg/L	Max	Report	Annual Average	Quarterly	Filtered/grab	EFD-1	
		Max	Report	Single Sample				
Total Cyanide	µg/L	Max	1.0	Single Sample	Semi-annual	Grab	EFD-1	
Mercury, Total Recoverable	µg/L	Max	0.025	Single Sample	Annual	Grab	EFD-1	

			Effluent Limitations		Monitoring Requirements			
Parameter	**Units**	**Max/ Min**	**Limit**	**Statistical Basis**	**Frequency of Analysis**	**Sample Type**	**Monitoring Site**	**Notes**
Chronic Whole Effluent Toxicity, 7-Day IC25 (*Americamysis bahia*)	percent	Min	100	Single Sample	Semi-Annually; twice per year	24-hr FPC	EFD-1	
Chronic Whole Effluent Toxicity, 7-Day IC25 (*Menidia beryllina*)	percent	Min	100	Single Sample	Semi-Annually; twice per year	24-hr FPC	EFD-1	
Temperature (°C), Water	Deg °C	Max	Report	Single Sample	Quarterly	Meter	SWD-1 SWD-2 SWB-1	
Oxygen, Dissolved (DO)	mg/L	Min	Report	Single Sample	Quarterly	Meter	SWD-1 SWD-2 SWB-1	
Salinity	mg/L	Max	Report	Single Sample	Quarterly	Meter	SWD-1 SWD-2 SWB-1	
BOD, Carbonaceous 5 day, 20C	mg/L	Max	Report	Single Sample	Quarterly	Grab	SWD-1 SWD-2 SWB-1	
Solids, Total Suspended	mg/L	Max	Report	Single Sample	Quarterly	Grab	SWD-1 SWD-2 SWB-1	
Nitrogen, Ammonia, Total (as N)	mg/L	Max	Report	Single Sample	Quarterly	Grab	SWD-1 SWD-2 SWB-1	

			Effluent Limitations		Monitoring Requirements			
Parameter	**Units**	**Max/ Min**	**Limit**	**Statistical Basis**	**Frequency of Analysis**	**Sample Type**	**Monitoring Site**	**Notes**
Nitrogen, Kjeldahl, Total (as N)	mg/L	Max	Report	Single Sample	Quarterly	Grab	SWD-1 SWD-2 SWB-1	
Nitrogen, Total (as N)	mg/L	Max	Report	Single Sample	Quarterly	Grab	SWD-1 SWD-2 SWB-1	
Phosphorus, Total (as P)	mg/L	Max	Report	Single Sample	Quarterly	Grab	SWD-1 SWD-2 SWB-1	
Chlorophyll a	mg/L	Max	Report	Single Sample	Quarterly	Grab	SWD-1 SWD-2 SWB-1	

PART I: Continued	
Receiving Waters: St. Johns River	**Classification (indicate whether fresh or marine):** Class III Marine waters

Toxicity Test Requirements (routine and/or additional test language, test species, salinity adjustment, etc.):

The permittee shall comply with the following requirements to evaluate chronic whole effluent toxicity of the discharge from outfall D-001.

a. Effluent Limitation:

(1) In any routine or additional follow-up test for chronic whole effluent toxicity, the 25 percent inhibition concentration (IC25) shall not be less than 100% effluent. [Rules 62-302.530(61) and 62-4.241(1)(b), F.A.C.]

(2) For acute whole effluent toxicity, the 96-hour LC50 shall not be less than 100% effluent in any test. [Rule 62-302.500(1)(a)4. and 62-4.241(1)(a), F.A.C.]

b. Monitoring Frequency:

(1) Routine toxicity tests shall be conducted once every six months, the first starting within 6 months of the most recent tests and lasting for the duration of this permit.

c. Sampling Requirements:

(1) For each routine test or additional follow-up test conducted, a total of three flow-proportional, 24-hr composite samples of final effluent shall be collected and used in accordance with the sampling protocol discussed in EPA-821-R-02-014, Section 8.

(2) The first sample shall be used to initiate the test. The remaining two samples shall be collected according to the protocol and used as renewal solutions on Day 3 (48 hours) and Day 5 (96 hours) of the test.

(3) Samples for routine and additional follow-up tests shall not be collected on the same day.

d. Test Requirements:

(1) Routine Tests: All routine tests shall be conducted using a control (0% effluent) and a minimum of five test dilutions: **100%**, **50%**, **25%**, **12.5%**, and **6.25%** final effluent.

(2) The Permittee shall conduct 7-day survival and growth chronic toxicity tests with the mysid shrimp, ***Americamysis (Mysidopsis) bahia***, Method 1007.0, and the inland silverside, ***Menidia beryllina***, Method 1006.0, concurrently.

(3) All test species, procedures and quality assurance criteria used shall be in accordance with Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms, 3rd Edition, EPA-821-R-02-014. Any deviation of the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use. In the event the above method is revised, the Permittee shall conduct chronic toxicity testing in accordance with the revised method.

(4) The control water and dilution water used shall be artificial sea salts as described in EPA-821-R-02-014, Section 7.2. The test salinity shall be determined as follows: (a) For the ***Americamysis bahia*** bioassays, the effluent shall be adjusted to a salinity of 20 parts per thousand (ppt) with artificial sea salts. The salinity of the control/dilution water shall be 20 ppt. If the salinity of the effluent is greater than 20 ppt, no salinity adjustment shall be made to the effluent and the test shall be run at the effluent salinity. The salinity of the control/dilution water shall match the salinity of the effluent.

(b) For the ***Menidia beryllina*** bioassays, if the effluent salinity is less that 5 ppt, the salinity shall be adjusted to 5 ppt with artificial sea salts. The salinity of the control/dilution water shall be 5 ppt. If the salinity of the effluent is greater than 5 ppt, no salinity adjustment shall be made to the effluent and the test shall be run at the effluent salinity. The salinity of the control/dilution water shall match the salinity of the effluent.

(c) If the salinity of the effluent requires adjustment, then a salinity adjustment control should be prepared and included with each bioassay. The salinity adjustment control is intended to identify toxicity resulting from adjusting the effluent salinity with artificial sea salts. To prepare the salinity adjustment control, dilute the control/dilution water to the salinity of the effluent and adjust the salinity of the salinity adjustment control at the same time and to the same salinity that the salinity of the effluent is adjusted using the same artificial sea salts.

e. Quality Assurance Requirements:

(1) A standard reference toxicant (SRT) quality assurance (QA) chronic toxicity test shall be conducted with each species used in the required toxicity tests either concurrently or initiated no more than 30 days before the date of each routine or additional follow-up test conducted. Additionally, the SRT test must be conducted concurrently if the test organisms are obtained from outside the test laboratory unless the test organism supplier provides control chart data from at least the last five monthly chronic toxicity tests using the same reference toxicant and test conditions. If the organism supplier provides the required SRT data, the organism supplier's SRT data and the test laboratory's monthly SRT-QA data shall be included in the reports for each companion routine or additional follow-up test required.
(2) If the mortality in the control exceeds 20% for either species in any test, or any other test acceptability criteria are not met, then the test for that species (including the control) shall be invalidated and the test repeated. Test acceptability criteria for each species are defined in EPA-821-R-02-014, Section 14.12 (***Americamysis bahia***) and Section 14.12 (***Menidia beryllina***). The repeat test shall begin within 21 days after the last day of the invalid test.
(3) If 100% mortality occurs in all effluent concentrations for either test species prior to the end of any test and the control mortality is less than 20% at that time, the test (including the control) for that species shall be terminated with the conclusion that the test fails and constitutes non-compliance.
(4) Routine and additional follow-up tests shall be evaluated for acceptability based on the observed dose-response relationship as required by EPA-821-R-02-014, Section 10.2.6., and the evaluation shall be included with the bioassay laboratory reports.

f. **Reporting Requirements:**
(1) Results from all required tests shall be reported on the Discharge Monitoring Report (DMR) as the calculated IC25 for each test species.
(2) A bioassay laboratory report for each routine test shall be prepared according to EPA-821-R-02-014, Section 10, Report Preparation and Test Review, and **e-mailed** or mailed to the Department at the address below **within 30 days** after the last day of the test.
(3) For additional follow-up tests, a single bioassay laboratory report shall be prepared according to EPA-821-R-02-014, Section 10, and **e-mailed** or mailed **within 30 days** after the last day of the second valid additional follow-up test.
(4) Data for invalid tests shall be included in the bioassay laboratory report for the repeat test.
(5) The same bioassay data shall not be reported as the results of more than one test.
(6) All bioassay laboratory reports shall be **e-mailed** or mailed **within 30 days** to *Jacksonville* only:

g. Test Failures:
(1) A test fails when the test results do not meet the limits in 14.a.(1).
(2) Additional Follow-up Tests: (a) If a routine test does not meet the chronic toxicity limitation in 14.a.(1) above, then the permittee shall notify the Department at the address above within 21 days after the last day of the failed routine test and conduct two additional follow-up tests on each species that failed the test in accordance with 14.d.
(b) The first test shall be initiated within 28 days after the last day of the failed routine test. The remaining additional follow-up tests shall be conducted weekly thereafter until a total of two valid additional follow-up tests are completed.
(c) The additional follow-up tests shall be conducted using a control (0% effluent) and a minimum of five dilutions: 100%, 50%, 25%, 12.5%, and 6.25% effluent. The permittee may modify the dilution series in the additional follow-up tests to more accurately bracket the toxicity such that at least two dilutions above and two dilutions below the target concentration and a control (0% effluent) are run. All test results shall be analyzed according to the procedures in EPA-821-R-02-014.

(3) In the event of three valid test failures (whether routine or additional follow-up tests) within a 12-month period, the permittee shall notify the Department within 21 days after the last day of the third test failure. (a) The permittee shall submit a plan for correction of the effluent toxicity within 60 days after the last day of the third test failure.
(b) The Department shall review and approve the plan before initiation.
(c) The plan shall be initiated within 30 days following the Department's written approval of the plan.

(d) Progress reports shall be submitted quarterly to the Department at the address above.
(e) During the implementation of the plan, the permittee shall conduct quarterly routine whole effluent toxicity tests in accordance with 14.d. Additional follow-up tests are not required while the plan is in progress. Following completion or termination of the plan, the frequency of monitoring for routine and additional follow-up tests shall return to the schedule established in 14.b.(1). If a routine test is invalid according to the acceptance criteria in EPA-821-R-02-014, a repeat test shall be initiated within 21 days after the last day of the invalid routine test.
(f) Upon completion of four consecutive quarterly valid routine tests that demonstrate compliance with the effluent limitation in 14.a.(1) above, the permittee may submit a written request to the Department to terminate the plan. The plan shall be terminated upon written verification by the Department that the facility has passed at least four consecutive quarterly valid routine whole effluent toxicity tests.
(g) If a test within the sequence of the four is deemed invalid, but is replaced by a repeat valid test initiated within 21 days after the last day of the invalid test, then the invalid test will not be counted against the requirement for four consecutive quarterly valid routine tests for the purpose of terminating the plan.

(4) If chronic toxicity test results indicate greater than 50% mortality within 96 hours in an effluent concentration equal to or less than the effluent concentration specified as the acute toxicity limit in 14.a.(2), then the Department may revise this permit to require acute definitive whole effluent toxicity testing.
(5) The additional follow-up testing and the plan do not preclude the Department taking enforcement action for acute or chronic whole effluent toxicity failures.

Administrative or Consent Orders (date executed, specific requirements, interim limit dates-if applicable, etc.): N/A

Facility Mixing Zone Details (if applicable): N/A

List Permit Violations (DMR data) and plant upsets that occurred at the plant within the last year:

Date	Parameter and Units	Limit	Result
5/31/2022	Solids, Total Suspended, mg/L	5.0 Maximum	25.0
7/31/2022	Enterococci, #/100mL	130.0 9A-90th Percentile	200
8/31/2022	Nitrogen, Total mg/L	5.0 Monthly Average	5.18
12/31/2022	Nitrogen, Total mg/L	10.0 Maximum	11.05
12/31/2022	Nitrogen, Total mg/L	5.0 Monthly Average	5.41

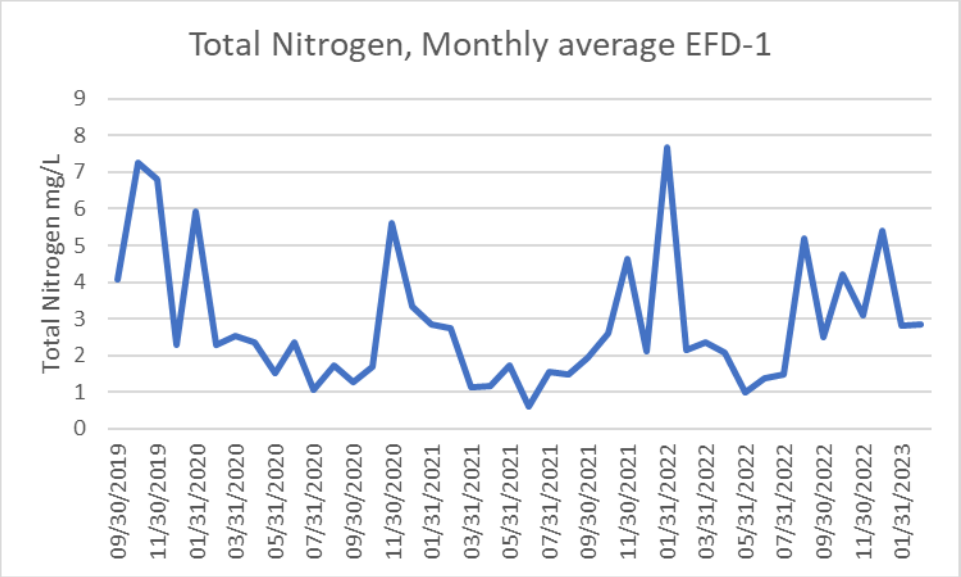
Describe previous FYI and WQBEL study:

An FYI3 was completed in May 2012. As noted in the Amended Fact Sheet (dated July 19, 2019), copper, nickel, zinc, and fluoride were detected in the effluent at levels that comply with Class III Marine water Quality Criteria (62-302.530, F.A.C.) and/or permit limits. Iron, selenium and arsenic were detected between the laboratory method detection limits (MDL) and practical quantitation limits (PQL). The facility inspection was found to be in-compliance.

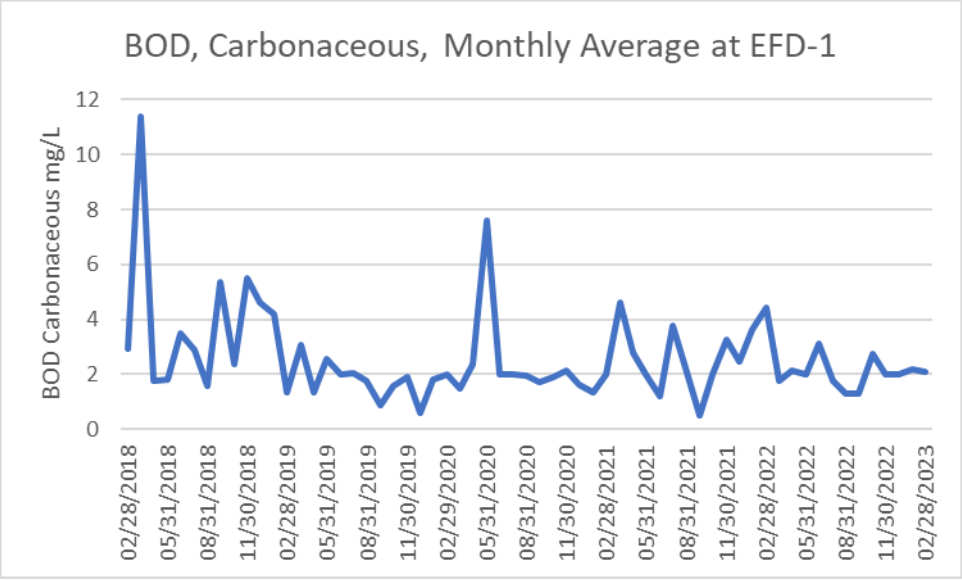
Describe previous or current Enforcement Actions (including WLs):
Four Warning Letters have been issued to this facility in the last five years, all for SSO's. Compliance Assistance Offer letter was issued in February 2023, related to an SSO. Last Consent Order was closed in 2013, this was also related to an SSO, Clay County Utility addressed this by completing an in-kind project.

Describe any violations or problems noted in previous inspection:
The last compliance inspection was conducted in September 202. Facility was out of compliance for leaking pump, grit/screening observed on the ground at the headworks, exceeded permit limit for fecal and total nitrogen between October 2019 and June 2021, several sanitary sewer overflows occurred between January to August 2021.

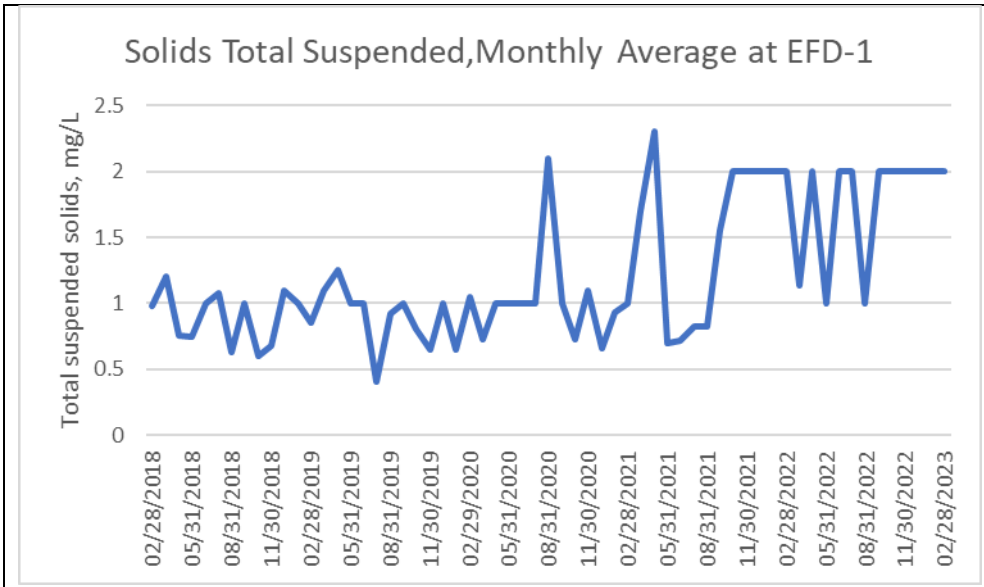
Discuss whether DMR trends within previous five years are improving or declining:
Overall, the following parameter permit limits were exceeded: Fecal-2017 (2 violations); 2019 (1 violation); 2021 (2 violations); Total Nitrogen-2020 (2 violations); 2022 (2 violations); TSS-2017 (1 violation); 2022 (1 violation). The trends for the permitted parameters are stable with not much data point fluctuations. Example of some data points below:



Total Nitrogen peaks during the colder months, no trend in the last 5 years



BOD levels appear to have stabilized following spikes in February of 2018 and may of 2020



Total solids are very high on average for the last year, with a cap at 2mg/L

Additional Comments (this should include a trend of the Effluent, i.e. if the facility is now Reuse):

Appendix B. Explanations of Measurements

Biological assessments are prepared by DEP staff to provide information for review of NPDES permit renewal applications. Biological assessments, in conjunction with other information concerning the subject facility and its receiving-water body, are used to determine appropriate permit conditions. References to Rule 62-302.530, F.A.C., are to the currently applicable surface water quality criteria table with an effective date of 02/17/2016 and a notice identification number of 17115667.

- **Chemical Analyses of the Effluent**

  The effluent was analyzed for nutrients, metals, organic constituents (base, neutral, and acid extractables) and pesticides following DEP SOPs. The results from these analyses were compared with Water Quality Criteria (Chapter 62-302, F.A.C.) and facility permit limits.

- **Toxicity Bioassays**

  Greater than 50% mortality in an acute toxicity test may constitute an exceedance of Paragraph 62-302.500(1)(a) and/or facility permit limits. A 25% inhibition concentration (IC25) is the effluent concentration causing a 25% reduction in a biological response such as biomass or reproduction when compared to a control population. An IC25 of less than 100% in a chronic test may constitute exceedances of Subsection 62-302.530(20), Subsection 62-302.530(62) and/or facility permit limits. A no observed effect concentration (NOEC) less than 100% effluent in a chronic test may constitute an exceedance of Subsection 62-302.530(62) and/or facility permit limits. Standard reference toxicant (SRT) tests are conducted monthly to ensure quality in toxicity testing.

- **Bacteriological Testing**

  High levels of fecal indicator bacteria may constitute an exceedance of Subsection 62-302.530(6) and/or facility permit limits. Fecal coliform results often are based on colony counts outside the acceptable range (B-qualifier). The dilutions performed on the sample did not yield results within the method acceptable range of 20- 60 colony forming units per plate. The B-qualifier does not affect data quality.

- **Algal Growth Potential (AGP)**

  The algal growth potential (AGP) value is the peak growth of the alga within that 14-day period, recorded as mg dry weight/L. AGP results within the range 6.10 to 20.0 mg dry wt/L are suggested to be representative of high productivity for freshwaters (Miller et al. 1978). High AGP values may constitute exceedances of Subsection 62-302.530(47), F.A.C., Paragraph 62-302.530(48)(a), F.A.C. and/or Paragraph 62-302.530(48)(b), F.A.C.

  The concentration of nutrients in a water sample may be used to calculate the expected yield of AGP under the assumption that other required nutrients (e.g. silicon, micronutrients) are present in excess (Miller *et al*. 1978). The expected amount of production is calculated as 38 times the total soluble inorganic nitrogen (nitrate and nitrite plus ammonia) under nitrogen limitation or 430 times the ortho-phosphate (OP) concentration under phosphorus limitation with an error of ± 20%. When the ratio of nitrogen to phosphorus (N: P) is less than 10:1, nitrogen limitation of algal production is likely. When the N: P ratio is 20:1 or greater,

phosphorus limitation is likely (USEPA 2000). For ratios in-between, co-limitation may occur. Production of lower biomass than expected may be evidence of growth inhibition related to toxic compounds present in the water sample tested and may constitute an exceedance of Subsection 62-302.530(62), F.A.C.

- **Chlorophyll *a* Content**

  Chlorophyll *a* content is an estimate of algal biomass. High algal biomass implies nutrient stress (Stevenson and Bahls 1999) and may be constitute exceedances of Subsection 62-302.530(47), F.A.C., Paragraph 62-302.530(48)(a) F.A.C. and/or Paragraph 62-302.530(48)(b) F.A.C..

- **Definition of Qualifiers** (Rule 62-160.700, F.A.C.)

  A - Value reported is the mean of two or more determinations
  B - Results based on colony counts outside the acceptable range.
  I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
  J - Estimated value
  K - Actual value is known to be less than value given
  L - Actual value is known to be greater than value given
  N - Presumptive evidence of presence of material.
  O - Sampled, but analysis lost or not performed.
  Q - Sample held beyond normal holding time.
  T - Value reported is less than the criterion of detection.
  U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
  V - Analyte was detected in both sample and method blank.
  X - Too few individuals to calculate SCI value.
  Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
  Z - Colonies were too numerous to count (TNTC)

Appendix C. Chain of Custody

Request Number: RQ-2023-03-27-23

FYI3 Miller Street WWTF FL0025151 Sampling Inspection

Customer: NE-DIST

Project ID: FYI3

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Page 1 of 4

last revised Jan 25, 2018

Requester: Benjamin Nomann ~~Philippe Hook~~ Field Report Prepared By: Conor Lucy

Collected By: Conor Lucy ~~Philippe Hook~~ Lydia Joyner Sampling Agency: FDEP Ned

Location		☒ Comp ☐ Grab	Collection (comp begin or grab) Date 04/09/23 Time 10:00	Eastern Central	Composite end Date 04/10/23 Time 10:00	Bottle Group(s) (See pg 2) B				
Field EFD-1 FL0025151 Miller Street WWTF FYI3			Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)			
WIN/ RQ-2023-03-27-23 Bottle Group B - (Comp)			Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)			
Latitude ☐ dd ☐ dms		☐ dd ☐ dms	Salinity (ppt)	Comments Poured at 10:10						
Location		☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time	Bottle Group(s)				
Field ID			Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)			
WIN/STORET #			Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)			
Latitude ☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments						
Location		☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time	Bottle Group(s)				
Field ID			Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)			
WIN/STORET #			Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)			
Latitude ☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments						
Location		☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time	Bottle Group(s)				
Field ID			Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)			
WIN/STORET #			Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)			
Latitude ☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments						

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
CL	04/10/23 11:30	FEDEX	2	A.SHAIK	04/11/2023/09:20

Request Number: RQ-2023-03-27-23

FYI3 Miller Street WWTF FL0025151 Sampling Inspection

Customer: NE-DIST

Project ID: FYI3

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Requester: Benjamin Nomann

Field Report Prepared By: Philippe Hook

Collected By: Philippe Hook, Conor Lucey, Lydia Joyner

Sampling Agency: FDEP NED

Location: EFD-1 Field ID: FL0025151 Miller Street WWTF FYI3 WIN/STORET: RQ-2023-03-27-23 Bottle Group B - (Comp)	☑ Comp ☐ Grab	Collection (comp begin or grab) Date 4-11-23 Time 10:00	Eastern Central	Composite end Date 4-12-23 Time 10:02	Bottle Group(s) (See pg 2): B						
	Matrix (type, e.g., Salt, Fresh, etc): Wastewater			Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)						
	Temp (C)	pH		Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)						
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments: Poured at 10:10								
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time	Bottle Group(s)						
Field ID	Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)						
WIN/STORET #	Temp (C)	pH		Sample Depth ☐ ft ☑ m	Sp. Conductance (umho/cm)						
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments								
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time	Bottle Group(s)						
Field ID	Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)						
WIN/STORET #	Temp (C)	pH		Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)						
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments								
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time	Bottle Group(s)						
Field ID	Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)						
WIN/STORET #	Temp (C)	pH		Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)						
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments								

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
PH	4-12-2023 / 12:13	FEDEX	2	TL	09:09 4/13/23

Request Number: RQ-2023-03-27-23

FYI3 Miller Street WWTF FL0025151 Sampling Inspection

Customer: NE-DIST

Project ID: FYI3

Florida Department of Environmental Protection

Central Laboratory Submittal Form

last revised Jan 25, 2018

Requester: Benjamin Nomann

Field Report Prepared By: Conor Lucey

Collected By: Conor Lucey, Phillip Hook

Sampling Agency: FDEP DEP

Location: EFD-1 FL0025151 Miller Street WWTF FYI3 RQ-2023-03-27-23 Bottle Group B - (Comp)		☒ Comp ☐ Grab	Collection (comp begin or grab) Date 04/13/2023 Time 10:00	Eastern Central	Composite end Date 04/14/2023 Time 10:00					Bottle Group(s) (See pg 2): B
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WIN/STORET #		Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)				
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments: Rinsed 94 10:00					
Location		☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time					Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)				
WIN/STORET #		Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)				
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments					
Location		☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time					Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)				
WIN/STORET #		Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)				
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments					
Location		☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time					Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)				
WIN/STORET #		Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)				
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments					

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
CL	4/14/23 12:00	FedEX	2	KH	4-15-23/0918

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
TASK ASSIGNMENT/NOTIFICATION FORM: LAB145

640-Tallahassee

Contract Manager: Linda Allen /Devan Cobb (850) 245-8084/ (850) 245-8078
2600 Blair Stone Rd., MS 6512
Tallahassee, FL 32399-2400

Contractor: Eurofins Environmental Testing Southeast, LLC
5102 LaRoche Ave
Savannah, GA 31404
ATTN: Noel Savoie

400-236583 COC

DEP Approval By: Devan R Cobb-Williams Contractor Approval By: Project Manager

Contractor Representatives Contacted: Noel Savoie

Date: 4/24/2023
Means of Contact: Email

Task Assignment Numl OV455 Maximum Cost: **$224.00** Turnaround Time: 10 BD

Sample Delivery Date: 4/24/2023

Project Name/Description:
RQ-2023-03-27-23; NE-DIST-2023-04-21-02;FYI3 Miller Street WWTF FL0025151 Sampling Inspection

Deliverable Number/ Parameter Group/	**Sample Matrix**	**# of Samples**	**# of Containers**	**DEP ID #**	**Unit Cost**	**% Mark-up (if any)**	**Cost**
Method							
58/ Cyanide OV-CN-W EPA 335.4	W	2	2	2402394, 2402396	$37.00		$74.00
65/mercury, Low Level (LL CVAFS)1631E	W	2	8 vials	2402395, 240397	$70.00		$140.00
217/Sample Disposal Fe	4				$2.50		$10.00
Total Number of Containers Shipped		10				**Total:**	**$224.00**

QC Instructions:

Comments:

Samples released to Contract ~~Lab by~~: _____ Date/Time: 4/24/23 1130

Delivery Method: ____HD____

Samples Accepted by: _____ Date/Time 4/24/23 1130
Relq. 4.24.23 1600

* **Please sign and return by email to** Linda.S.Allen@FloridaDEP.gov and Devan.R.Cobb@dep.state.fl.us

Rec. by Lab: _____ Page 17 of 20 4/25/23 9:11 1.2°C IR(0 5/2/2023

Request Number: RQ-2023-03-27-23

FYI3 Miller Street WWTF FL0025151 Sampling Inspection

Customer: NE-DIST

Project ID: FYI3

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Requester: Benjamin Nomann

Field Report Prepared By:

Collected By:

Sampling Agency:

Location: ~~EFA-1~~ EFA-1 Field ID: FL0025151 Miller Street WWTF FYI3 WIN/STO: RQ-2023-03-27-23 Bottle Group A - (Grab)	☐ Comp ☑ Grab	Collection (comp begin or grab) Date 4/20/2023 Time 11:00 am	Eastern / Central	Composite end Date Time	Bottle Group(s) (See pg 2): A						
	Matrix (type, e.g., Salt, Fresh, etc): Waste water		Diss. Oxygen: 94.0 ☐ mg/L ☑ % sat	Total Res. Chlorine (mg/L): *							
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Temp (C): 24.4	pH: 7.55	Sample Depth: — ☐ ft ☐ m	Sp. Conductance (umho/cm): 789						
		Salinity (ppt): —	Comments: * no probe available for TRC								
Location: EFD-1 Field ID: FL0025151 Miller Street WWTF FYI3 WIN/ST: RQ-2023-03-27-23 Bottle Group C - Field Blank	☐ Comp ☑ Grab	Collection (comp begin or grab) TL Date 4/20/2023 Time 11:15	Eastern / Central	Composite end Date Time	Bottle Group(s): C						
	Matrix (type, e.g., Salt, Fresh, etc): ~~Waste~~ DI water		Diss. Oxygen: ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)							
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Temp (C)	pH	Sample Depth: — ☐ ft ☐ m	Sp. Conductance (umho/cm)						
		Salinity (ppt): —	Comments: Field Blanks								
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern / Central	Composite end Date Time	Bottle Group(s)						
Field ID	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen: ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)							
WIN/STORET #	Temp (C)	pH	Sample Depth: ☐ ft ☐ m	Sp. Conductance (umho/cm)							
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments								
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern / Central	Composite end Date Time	Bottle Group(s)						
Field ID	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen: ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)							
WIN/STORET #	Temp (C)	pH	Sample Depth: ☐ ft ☐ m	Sp. Conductance (umho/cm)							
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments								

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Philippe Hook	4/20/23 3:20pm	Fedex	3	TL	4/21/23 12:33

TL Collection time/date taken from bottles



DIVERSIFIED ENVIRONMENTAL LABORATORIES, INC.

CHAIN OF CUSTODY RECORD

Project Number: (Lab Use Only)

3653 Regent Boulevard, Suite # 509
Jacksonville, FL 32224
P. (904) 807-9625 E. info@delilab.com
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Page 1 of 1

Company Name: Florida Department of Environmental Protection
Address: 8800 Baymeadows Way W Ste 100
City: Jacksonville State: FL Zip: 32256
Attn.: Jeremy Parrish Jeremy.M.Parrish@floridadep.gov
Tel. E-mail or Fax: DEP-Overflowmicro@dep.state.fl.us
Project Name: Miller Street CyI3
Project Number: RQ-2023-03-27-23
Project Location: Miller Street WWTF
Sampler Name/Signature: Philippe Hook / Philippe Hook

Transfer #	Sample # (Lab Use Only)	Sample Identification	Date Sampled	Time Sampled	Sample Matrix Code	Specific Cond. (Field)	Comp.	Grab.	E. Coli - Quantitray	Enterococci - Quantitray	Coliform, Fecal - MF 3 Dilutions							
Container Information (Qty, Size, & Type)					NPW	NPW	NPW											
Container Preservation Codes					6	6	6											
Parameters																		
1		Miller Bact	4/20/2023	11:00	NPW			X		X	X							
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
0																		

Sample Matrix Codes:
A. Air P. Petroleum
B. Bulk S. Soil/Sludge
W. Wipe O. Other _____
PW. Potable Water
NPW. Non-Potable Water

Sample Kit or Container Lot #: NA

Preservation Codes:
0. None 5. $Na_2S_2O_3$
1. H_2SO_4 6. Crushed Ice (4C)
2. HNO_3 7. $C_6H_8O_6$
3. HCl 8. NH_4Cl
4. NaOH 9. Other: (List)

Thermal Preservation:
In Crushed Ice? (Yes) No
Cooler Temp: 0.1 °C
Sample Cont. Temp: 1.9 °C

Turnaround Requested:
X Standard (10 Business Days)
___ Semi-Rush (3-5 Business Days)
___ Rush (1-2 Business Days)
Turnaround times are estimated & subject to change. Surcharges apply for all Rush samples.

Billing Information:
_____ Invoice with Report
_____ Invoice to Accounting
Req. #: _____
P.O. #: _____

Special Instructions:

Transfer Numbers	Relinquished By	Date / Time	Received By	Date / Time
1	Philippe Hook	04/20/23 1550	DC—VC—	04/20/23 1550

NELAP ACCREDITED FL DEP LABORATORY
Certification #E821059

Lab General Form 059, Rev. #1, Rev. Date: 02/07/22, Effective Date: 02/07/22.

Visit us online & order kits at: www.delilab.com

Appendix D. Chemical Analysis of Effluent

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/10/2023 10:00	Effluent Composite	Toxicology	Bioassay-Chron-Def-SW-Mysid, IC25	100 L	IC25		
4/10/2023 10:00	Effluent Composite	Toxicology	Bioassay-Chron-Def-SW-Fish, IC25	100 L	IC25		
4/10/2023 10:00	Effluent Composite	Nutrients	Total-P	1.1	mg P/L	0.050	0.25
4/10/2023 10:00	Effluent Composite	Nutrients	Ammonia-N	0.041	mg N/L	0.0020	0.0050
4/10/2023 10:00	Effluent Composite	Nutrients	Kjeldahl Nitrogen	0.66	mg N/L	0.080	0.20
4/10/2023 10:00	Effluent Composite	Nutrients	NO2NO3-N	1.9	mg N/L	0.040	0.10
4/10/2023 10:00	Effluent Composite	Nutrients	TSS	2 U	mg/L	2.0	10
4/20/2023 11:00	Effluent Grab	AGP/LN	Algal Growth Potential-Dechlorinated	3.00 U	mg DryWt/L	3.00	3.00
4/20/2023 11:00	Effluent Grab	AGP/LN	Algal Growth Potential-Dechlorinated	4.90 A	mg DryWt/L	0.300	0.900
4/20/2023 11:00	Effluent Grab	Chlorophyll/Grain Size/BOD	Phaeophytin-a	0.90 U	µg/L	0.90	2.7
4/20/2023 11:00	Effluent Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	0.82 U	µg/L	0.82	2.5
4/20/2023 11:00	Effluent Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	0.60 U	µg/L	0.60	1.8
4/20/2023 11:00	Effluent Grab	Overflow	Enterococci-Quanti-Tray	1.0 U	MPN/100 mL	1	1
4/20/2023 11:00	Effluent Grab	Overflow	Fecal Coliforms-Membrane Filter	2.0 U	cfu/100 mL	2	2
4/20/2023 11:00	Effluent Grab	Metals	Sodium	92.8	mg/L	0.50	2.0
4/20/2023 11:00	Effluent Grab	Metals	Silver	0.010 U	µg/L	0.010	0.040
4/20/2023 11:00	Effluent Grab	Metals	Nickel	1.1 I	µg/L	0.50	2.0
4/20/2023 11:00	Effluent Grab	Metals	Magnesium	16.4	mg/L	0.040	0.16
4/20/2023 11:00	Effluent Grab	Metals	Selenium	0.20 U	µg/L	0.20	0.80
4/20/2023 11:00	Effluent Grab	Metals	Iron	79 I	µg/L	30	120
4/20/2023 11:00	Effluent Grab	Metals	Calcium	36.6	mg/L	0.075	0.30
4/20/2023 11:00	Effluent Grab	Metals	Zinc	25	µg/L	5.0	20
4/20/2023 11:00	Effluent Grab	Metals	Arsenic	0.18 I	µg/L	0.050	0.20
4/20/2023 11:00	Effluent Grab	Metals	Cadmium	0.020 U	µg/L	0.020	0.080
4/20/2023 11:00	Effluent Grab	Metals	Aluminum	5.0 I	µg/L	5.0	20
4/20/2023 11:00	Effluent Grab	Metals	Chromium	0.40 U	µg/L	0.40	1.6
4/20/2023 11:00	Effluent Grab	Metals	Potassium	13.5	mg/L	0.30	1.2
4/20/2023 11:00	Effluent Grab	Metals	Lead	0.20 U	µg/L	0.20	0.40
4/20/2023 11:00	Effluent Grab	Metals	Copper	0.66 I	µg/L	0.40	0.80
4/20/2023 11:00	Effluent Grab	Nutrients	Fluoride	0.58	mg F/L	0.025	0.10

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/20/2023 11:00	Effluent Grab	Nutrients	Color (true)	2.5 U	PCU	2.5	6.0
4/20/2023 11:00	Effluent Grab	Nutrients	O-Phosphate-P	1.3	mg P/L	0.20	0.50
4/20/2023 11:00	Effluent Grab	Nutrients	Kjeldahl Nitrogen	0.58	mg N/L	0.080	0.20
4/20/2023 11:00	Effluent Grab	Nutrients	TSS	2 I	mg/L	2.0	10
4/20/2023 11:00	Effluent Grab	Nutrients	Chloride	93 A	mg Cl/L	0.40	1.0
4/20/2023 11:00	Effluent Grab	Nutrients	Organic Carbon	6.0 A	mg C/L	0.50	1.0
4/20/2023 11:00	Effluent Grab	Nutrients	Total-P	1.5	mg P/L	0.050	0.25
4/20/2023 11:00	Effluent Grab	Nutrients	Sulfate	110	mg SO4/L	0.40	1.0
4/20/2023 11:00	Effluent Grab	Nutrients	Turbidity	0.65 I	NTU	0.10	1.0
4/20/2023 11:00	Effluent Grab	Nutrients	NO2NO3-N	1.3	mg N/L	0.040	0.10
4/20/2023 11:00	Effluent Grab	Nutrients	Total Alkalinity	117 A	mg CaCO3/L	0.65	2.5
4/20/2023 11:00	Effluent Grab	Nutrients	Ammonia-N	0.006	mg N/L	0.0020	0.0050
4/20/2023 11:00	Effluent Grab	Overflow	Mercury	0.84	ng/L	0.2	0.5
4/20/2023 11:00	Effluent Grab	Overflow	Cyanide	0.0050 IJ	mg/L	0.0025	0.01
4/20/2023 11:00	Effluent Grab	Pesticides	Chlorpyrifos Ethyl	0.31 UYJ	ng/L	0.31	1.5
4/20/2023 11:00	Effluent Grab	Pesticides	Fipronil Sulfone	0.10 UY	ng/L	0.10	0.52
4/20/2023 11:00	Effluent Grab	Pesticides	Hexazinone	0.52 UY	ng/L	0.52	2.6
4/20/2023 11:00	Effluent Grab	Pesticides	Phorate	0.26 UYJ	ng/L	0.26	1.3
4/20/2023 11:00	Effluent Grab	Pesticides	Simazine	2.6 Y	ng/L	0.26	1.3
4/20/2023 11:00	Effluent Grab	Pesticides	Terbuthylazine	0.21 UY	ng/L	0.21	1.0
4/20/2023 11:00	Effluent Grab	Pesticides	Carfentrazone Ethyl	0.15 UY	ng/L	0.15	0.77
4/20/2023 11:00	Effluent Grab	Pesticides	Difenoconazole	0.62 UY	ng/L	0.62	3.1
4/20/2023 11:00	Effluent Grab	Pesticides	EPTC	0.52 UY	ng/L	0.52	2.6
4/20/2023 11:00	Effluent Grab	Pesticides	Ethoprop	0.13 UYJ	ng/L	0.13	0.64
4/20/2023 11:00	Effluent Grab	Pesticides	Fipronil Desulfinyl	0.35 IY	ng/L	0.10	0.52
4/20/2023 11:00	Effluent Grab	Pesticides	Flumioxazin	3.1 UY	ng/L	3.1	15
4/20/2023 11:00	Effluent Grab	Pesticides	Iprodione	0.52 UY	ng/L	0.52	2.6
4/20/2023 11:00	Effluent Grab	Pesticides	Myclobutanil	0.36 UY	ng/L	0.36	1.8
4/20/2023 11:00	Effluent Grab	Pesticides	Norflurazon	1.0 UY	ng/L	1.0	5.2
4/20/2023 11:00	Effluent Grab	Pesticides	Pronamide	0.10 UYJ	ng/L	0.10	0.52
4/20/2023 11:00	Effluent Grab	Pesticides	Sulfentrazone	1.4 UY	ng/L	1.4	7.2
4/20/2023 11:00	Effluent Grab	Pesticides	Acetochlor	0.21 UY	ng/L	0.21	1.0
4/20/2023 11:00	Effluent Grab	Pesticides	Azinphos Methyl	3.1 UYJ	ng/L	3.1	15
4/20/2023 11:00	Effluent Grab	Pesticides	Cyprodinil	0.21 UY	ng/L	0.21	1.0

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/20/2023 11:00	Effluent Grab	Pesticides	Propargite	0.82 UY	ng/L	0.82	4.1
4/20/2023 11:00	Effluent Grab	Pesticides	Pyridaben	1.4 UY	ng/L	1.4	7.2
4/20/2023 11:00	Effluent Grab	Pesticides	Carbophenothion	0.52 UYJ	ng/L	0.52	2.6
4/20/2023 11:00	Effluent Grab	Pesticides	Dimethenamid	0.10 UYJ	ng/L	0.10	0.52
4/20/2023 11:00	Effluent Grab	Pesticides	Dithiopyr	1.7 IVY	ng/L	1.7	8.8
4/20/2023 11:00	Effluent Grab	Pesticides	Fipronil	0.21 UY	ng/L	0.21	1.0
4/20/2023 11:00	Effluent Grab	Pesticides	Imazalil	0.67 UY	ng/L	0.67	3.4
4/20/2023 11:00	Effluent Grab	Pesticides	Malathion	0.36 UYJ	ng/L	0.36	1.8
4/20/2023 11:00	Effluent Grab	Pesticides	Naled	2.6 UYJ	ng/L	2.6	13
4/20/2023 11:00	Effluent Grab	Pesticides	Oxadiazon	0.36 UY	ng/L	0.36	1.8
4/20/2023 11:00	Effluent Grab	Pesticides	Parathion Methyl	0.21 UYJ	ng/L	0.21	1.0
4/20/2023 11:00	Effluent Grab	Pesticides	Propiconazole	0.62 UY	ng/L	0.62	3.1
4/20/2023 11:00	Effluent Grab	Pesticides	Atrazine	29 Y	ng/L	0.21	1.0
4/20/2023 11:00	Effluent Grab	Pesticides	Dimethomorph	0.31 UY	ng/L	0.31	1.5
4/20/2023 11:00	Effluent Grab	Pesticides	Etridiazole	0.10 UY	ng/L	0.10	0.52
4/20/2023 11:00	Effluent Grab	Pesticides	Naproxen	0.0080 UY	µg/L	0.0080	0.032
4/20/2023 11:00	Effluent Grab	Pesticides	Fenbuconazole	0.52 UY	ng/L	0.52	2.6
4/20/2023 11:00	Effluent Grab	Pesticides	Oxyfluorfen	0.21 UY	ng/L	0.21	1.0
4/20/2023 11:00	Effluent Grab	Pesticides	Prometon	3.1 UY	ng/L	3.1	15
4/20/2023 11:00	Effluent Grab	Pesticides	Terbufos	0.21 UYJ	ng/L	0.21	1.0
4/20/2023 11:00	Effluent Grab	Pesticides	Ametryn	1.1 UY	ng/L	1.1	5.7
4/20/2023 11:00	Effluent Grab	Pesticides	Coumaphos	1.1 UYJ	ng/L	1.1	5.7
4/20/2023 11:00	Effluent Grab	Pesticides	Pyraflufen Ethyl	0.31 UY	ng/L	0.31	1.5
4/20/2023 11:00	Effluent Grab	Pesticides	Demeton	3.6 UYJ	ng/L	3.6	18
4/20/2023 11:00	Effluent Grab	Pesticides	Ethion	0.31 UYJ	ng/L	0.31	1.5
4/20/2023 11:00	Effluent Grab	Pesticides	Fonofos	0.15 UYJ	ng/L	0.15	0.77
4/20/2023 11:00	Effluent Grab	Pesticides	Metribuzin	0.41 UY	ng/L	0.41	2.1
4/20/2023 11:00	Effluent Grab	Pesticides	Mevinphos	1.0 UYJ	ng/L	1.0	5.2
4/20/2023 11:00	Effluent Grab	Pesticides	Parathion Ethyl	0.15 UYJ	ng/L	0.15	0.77
4/20/2023 11:00	Effluent Grab	Pesticides	Pendimethalin	0.77 UY	ng/L	0.77	3.9
4/20/2023 11:00	Effluent Grab	Pesticides	Thiobencarb	0.52 UY	ng/L	0.52	2.6
4/20/2023 11:00	Effluent Grab	Pesticides	Fenamiphos	0.46 UYJ	ng/L	0.46	2.3
4/20/2023 11:00	Effluent Grab	Pesticides	Fipronil Sulfide	0.78 Y	ng/L	0.10	0.52
4/20/2023 11:00	Effluent Grab	Pesticides	Metalaxyl	0.52 UY	ng/L	0.52	2.6

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/20/2023 11:00	Effluent Grab	Pesticides	Tebuconazole	10 Y	ng/L	1.4	7.2
4/20/2023 11:00	Effluent Grab	Pesticides	Alachlor	0.41 UY	ng/L	0.41	2.1
4/20/2023 11:00	Effluent Grab	Pesticides	Bromacil	0.62 UY	ng/L	0.62	3.1
4/20/2023 11:00	Effluent Grab	Pesticides	Stirophos	0.41 UYJ	ng/L	0.41	3.3
4/20/2023 11:00	Effluent Grab	Pesticides	Caffeine	7.7 UY	ng/L	7.7	39
4/20/2023 11:00	Effluent Grab	Pesticides	Chlorpyrifos Methyl	0.10 UYJ	ng/L	0.10	0.52
4/20/2023 11:00	Effluent Grab	Pesticides	Cyanazine	5.2 UY	ng/L	5.2	26
4/20/2023 11:00	Effluent Grab	Pesticides	Fluazifop-P-butyl	0.10 UY	ng/L	0.10	0.52
4/20/2023 11:00	Effluent Grab	Pesticides	Fludioxonil	0.10 UY	ng/L	0.10	0.52
4/20/2023 11:00	Effluent Grab	Pesticides	Flutolanil	0.10 UY	ng/L	0.10	0.52
4/20/2023 11:00	Effluent Grab	Pesticides	Metolachlor	0.77 UY	ng/L	0.77	3.9
4/20/2023 11:00	Effluent Grab	Pesticides	Pyriproxyfen	0.26 UY	ng/L	0.26	1.6
4/20/2023 11:00	Effluent Grab	Pesticides	Atrazine Desethyl	3.8 IY	ng/L	1.3	6.7
4/20/2023 11:00	Effluent Grab	Pesticides	Azoxystrobin	0.41 UY	ng/L	0.41	2.1
4/20/2023 11:00	Effluent Grab	Pesticides	Butylate	0.21 UY	ng/L	0.21	1.0
4/20/2023 11:00	Effluent Grab	Pesticides	Chlorfenapyr	3.5 Y	ng/L	0.31	1.5
4/20/2023 11:00	Effluent Grab	Pesticides	Napropamide	0.72 UY	ng/L	0.72	3.6
4/20/2023 11:00	Effluent Grab	Pesticides	Phenytoin	30 Y	ng/L	5.5	27
4/20/2023 11:00	Effluent Grab	Pesticides	Sucralose	92 Y	µg/L	0.10	0.40
4/20/2023 11:00	Effluent Grab	Pesticides	Ibuprofen	0.080 UY	µg/L	0.080	0.32
4/20/2023 11:00	Effluent Grab	Pesticides	Diazinon	0.13 UYJ	ng/L	0.13	0.64
4/20/2023 11:00	Effluent Grab	Pesticides	Disulfoton	0.62 UYJ	ng/L	0.62	3.1
4/20/2023 11:00	Effluent Grab	Pesticides	Fluxapyroxad	0.44 IY	ng/L	0.26	1.3
4/20/2023 11:00	Effluent Grab	Pesticides	Molinate	0.26 UY	ng/L	0.26	1.3
4/20/2023 11:00	Effluent Grab	Pesticides	Prodiamine	0.21 UY	ng/L	0.21	1.0
4/20/2023 11:00	Effluent Grab	Pesticides	Prometryn	0.36 UYJ	ng/L	0.36	1.8
4/20/2023 11:00	Effluent Grab	Pesticides	Loratadine	5.9 Y	ng/L	0.31	1.5
4/20/2023 11:00	Effluent Grab	Pesticides	Propanil	0.10 UY	ng/L	0.10	0.52
4/20/2023 11:00	Effluent Grab	Pesticides	Triadimefon	0.15 UY	ng/L	0.15	0.77
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	0.10 UYJ	µg/L	0.10	0.42
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Naphthalene	0.10 UY	µg/L	0.10	0.42
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	N-Nitrosodimethylamine	2.1 UY	µg/L	2.1	8.3
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Fluorene	0.026 UY	µg/L	0.026	0.10
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Acenaphthene	0.026 UYJ	µg/L	0.026	0.10

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	2,6-Dinitrotoluene	0.052 UY	µg/L	0.052	0.21
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Nitrobenzene	0.052 UY	µg/L	0.052	0.21
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	2,4-Dimethylphenol	0.052 UYJ	µg/L	0.052	0.21
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Hexachlorobenzene	0.052 UY	µg/L	0.052	0.21
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Pyrene	0.10 UYJ	µg/L	0.10	0.42
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.1 UY	µg/L	3.1	12
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Benzo(a)pyrene	0.026 UYJ	µg/L	0.026	0.10
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Di-n-butyl phthalate	2.1 UY	µg/L	2.1	8.3
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.052 UY	µg/L	0.052	0.21
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Phenanthrene	0.10 UYJ	µg/L	0.10	0.42
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	2-Chlorophenol	0.052 UYJ	µg/L	0.052	0.21
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	2,4-Dichlorophenol	0.052 UYJ	µg/L	0.052	0.21
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.052 UY	µg/L	0.052	0.21
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	4-Nitrophenol	10 UY	µg/L	10	42
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	5.2 UY	µg/L	5.2	21
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Acenaphthylene	0.026 UYJ	µg/L	0.026	0.10
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Fluoranthene	0.052 UY	µg/L	0.052	0.21
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Phenol	0.052 UYJ	µg/L	0.052	0.21
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.052 UYJ	µg/L	0.052	0.21
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.052 UY	µg/L	0.052	0.21
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Benzidine	10 UY	µg/L	10	42
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Benzo(b)fluoranthene	0.026 UY	µg/L	0.026	0.10
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.052 UY	µg/L	0.052	0.21
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.052 UY	µg/L	0.052	0.21
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Butyl benzyl phthalate	1.0 UY	µg/L	1.0	4.2
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Isophorone	0.052 UY	µg/L	0.052	0.21
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	2-Nitrophenol	0.052 UYJ	µg/L	0.052	0.21
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.052 UYJ	µg/L	0.052	0.21
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Azobenzene/1,2-Diphenylhydrazine	0.052 UY	µg/L	0.052	0.21
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Benzo(a)anthracene	0.026 UYJ	µg/L	0.026	0.10
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.026 UYJ	µg/L	0.026	0.10
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Benzo(k)fluoranthene	0.026 UY	µg/L	0.026	0.10
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Anthracene	0.052 UYJ	µg/L	0.052	0.21
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.026 UYJ	µg/L	0.026	0.10

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Diethyl phthalate	2.1 UY	µg/L	2.1	8.3
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.46 Y	µg/L	0.052	0.21
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Pentachlorophenol	0.52 UYJ	µg/L	0.52	2.1
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	2-Chloronaphthalene	0.052 UY	µg/L	0.052	0.21
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	2,4-Dinitrotoluene	0.052 UY	µg/L	0.052	0.21
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.052 UY	µg/L	0.052	0.21
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Chrysene	0.026 UY	µg/L	0.026	0.10
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Di-n-octyl phthalate	0.052 UY	µg/L	0.052	0.21
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.026 UYJ	µg/L	0.026	0.10
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.052 UY	µg/L	0.052	0.21
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	2,4-Dinitrophenol	10 UY	µg/L	10	42
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	3,3'-Dichlorobenzidine	10 UY	µg/L	10	42
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Dimethyl phthalate	0.21 UY	µg/L	0.21	0.83
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Hexachlorobutadiene	0.052 UY	µg/L	0.052	0.21
4/20/2023 11:00	Effluent Grab	Priority Organic Pollutants	Hexachloroethane	0.18 IY	µg/L	0.052	0.21
4/20/2023 11:00	Effluent Grab	Nutrients	Specific Conductance	789	µmhos/cm		
4/20/2023 11:00	Effluent Grab	Nutrients	pH	7.55			
4/20/2023 11:00	Effluent Grab	Nutrients	Temperature	24.4	C		
4/20/2023 11:00	Effluent Grab	Nutrients	Dissolved Oxygen %Sat	94.0	%Sat		
4/20/2023 11:15	Field Blank	Metals	Selenium	0.20 U	µg/L	0.20	0.80
4/20/2023 11:15	Field Blank	Metals	Iron	30 U	µg/L	30	120
4/20/2023 11:15	Field Blank	Metals	Chromium	0.40 U	µg/L	0.40	1.6
4/20/2023 11:15	Field Blank	Metals	Sodium	0.50 U	mg/L	0.50	2.0
4/20/2023 11:15	Field Blank	Metals	Calcium	0.075 U	mg/L	0.075	0.30
4/20/2023 11:15	Field Blank	Metals	Silver	0.010 U	µg/L	0.010	0.040
4/20/2023 11:15	Field Blank	Metals	Nickel	0.50 U	µg/L	0.50	2.0
4/20/2023 11:15	Field Blank	Metals	Copper	0.40 U	µg/L	0.40	0.80
4/20/2023 11:15	Field Blank	Metals	Cadmium	0.020 U	µg/L	0.020	0.080
4/20/2023 11:15	Field Blank	Metals	Aluminum	5.0 U	µg/L	5.0	20
4/20/2023 11:15	Field Blank	Metals	Zinc	5.0 U	µg/L	5.0	20
4/20/2023 11:15	Field Blank	Metals	Arsenic	0.050 U	µg/L	0.050	0.20
4/20/2023 11:15	Field Blank	Metals	Potassium	0.30 U	mg/L	0.30	1.2
4/20/2023 11:15	Field Blank	Metals	Magnesium	0.040 U	mg/L	0.040	0.16
4/20/2023 11:15	Field Blank	Metals	Lead	0.20 U	µg/L	0.20	0.40

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/20/2023 11:15	Field Blank	Nutrients	Total Alkalinity	0.65 U	mg CaCO3/L	0.65	2.5
4/20/2023 11:15	Field Blank	Nutrients	O-Phosphate-P	0.004 U	mg P/L	0.0040	0.010
4/20/2023 11:15	Field Blank	Nutrients	Kjeldahl Nitrogen	0.51	mg N/L	0.080	0.20
4/20/2023 11:15	Field Blank	Nutrients	Total-P	1.4	mg P/L	0.050	0.25
4/20/2023 11:15	Field Blank	Nutrients	Sulfate	0.20 U	mg SO4/L	0.20	0.50
4/20/2023 11:15	Field Blank	Nutrients	Fluoride	0.025 U	mg F/L	0.025	0.10
4/20/2023 11:15	Field Blank	Nutrients	NO2NO3-N	1.2	mg N/L	0.040	0.10
4/20/2023 11:15	Field Blank	Nutrients	Chloride	0.20 U	mg Cl/L	0.20	0.50
4/20/2023 11:15	Field Blank	Nutrients	Ammonia-N	0.004 I	mg N/L	0.0020	0.0050
4/20/2023 11:15	Field Blank	Nutrients	Color (true)	2.5 U	PCU	2.5	6.0
4/20/2023 11:15	Field Blank	Nutrients	Turbidity	0.10 U	NTU	0.10	1.0
4/20/2023 11:15	Field Blank	Nutrients	Organic Carbon	5.9	mg C/L	0.50	1.0
4/20/2023 11:15	Field Blank	Overflow	Cyanide	0.0031 I	mg/L	0.0025	0.01
4/20/2023 11:15	Field Blank	Overflow	Mercury	0.20 U	ng/L	0.2	0.5
4/20/2023 11:15	Field Blank	Pesticides	Fenamiphos	0.47 U	ng/L	0.47	2.3
4/20/2023 11:15	Field Blank	Pesticides	Fipronil Sulfone	0.10 U	ng/L	0.10	0.52
4/20/2023 11:15	Field Blank	Pesticides	Iprodione	0.52 U	ng/L	0.52	2.6
4/20/2023 11:15	Field Blank	Pesticides	Prometon	3.1 U	ng/L	3.1	16
4/20/2023 11:15	Field Blank	Pesticides	Chlorfenapyr	0.31 U	ng/L	0.31	1.6
4/20/2023 11:15	Field Blank	Pesticides	Cyprodinil	0.21 U	ng/L	0.21	1.0
4/20/2023 11:15	Field Blank	Pesticides	Loratadine	0.31 U	ng/L	0.31	1.6
4/20/2023 11:15	Field Blank	Pesticides	Propanil	0.10 U	ng/L	0.10	0.52
4/20/2023 11:15	Field Blank	Pesticides	Ibuprofen	0.080 U	µg/L	0.080	0.32
4/20/2023 11:15	Field Blank	Pesticides	Carbophenothion	0.52 U	ng/L	0.52	2.6
4/20/2023 11:15	Field Blank	Pesticides	Disulfoton	0.62 U	ng/L	0.62	3.1
4/20/2023 11:15	Field Blank	Pesticides	Fipronil	0.21 U	ng/L	0.21	1.0
4/20/2023 11:15	Field Blank	Pesticides	Fluxapyroxad	0.26 U	ng/L	0.26	1.3
4/20/2023 11:15	Field Blank	Pesticides	Pendimethalin	0.78 U	ng/L	0.78	3.9
4/20/2023 11:15	Field Blank	Pesticides	Acetochlor	0.21 U	ng/L	0.21	1.0
4/20/2023 11:15	Field Blank	Pesticides	Atrazine	0.21 U	ng/L	0.21	1.0
4/20/2023 11:15	Field Blank	Pesticides	Phenytoin	5.5 U	ng/L	5.5	27
4/20/2023 11:15	Field Blank	Pesticides	Thiobencarb	0.52 U	ng/L	0.52	2.6
4/20/2023 11:15	Field Blank	Pesticides	Difenoconazole	0.62 U	ng/L	0.62	3.1
4/20/2023 11:15	Field Blank	Pesticides	Flutolanil	0.10 U	ng/L	0.10	0.52

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/20/2023 11:15	Field Blank	Pesticides	Fonofos	0.16 U	ng/L	0.16	0.78
4/20/2023 11:15	Field Blank	Pesticides	Malathion	0.36 U	ng/L	0.36	1.8
4/20/2023 11:15	Field Blank	Pesticides	Metolachlor	0.78 U	ng/L	0.78	3.9
4/20/2023 11:15	Field Blank	Pesticides	Molinate	0.26 U	ng/L	0.26	1.3
4/20/2023 11:15	Field Blank	Pesticides	Myclobutanil	0.36 U	ng/L	0.36	1.8
4/20/2023 11:15	Field Blank	Pesticides	Naled	2.6 U	ng/L	2.6	13
4/20/2023 11:15	Field Blank	Pesticides	Phorate	0.26 U	ng/L	0.26	1.3
4/20/2023 11:15	Field Blank	Pesticides	Pronamide	0.10 UJ	ng/L	0.10	0.52
4/20/2023 11:15	Field Blank	Pesticides	Tebuconazole	1.5 U	ng/L	1.5	7.3
4/20/2023 11:15	Field Blank	Pesticides	Caffeine	7.8 U	ng/L	7.8	39
4/20/2023 11:15	Field Blank	Pesticides	Dithiopyr	1.0 U	ng/L	1.0	5.2
4/20/2023 11:15	Field Blank	Pesticides	Flumioxazin	3.1 U	ng/L	3.1	16
4/20/2023 11:15	Field Blank	Pesticides	Oxadiazon	0.36 U	ng/L	0.36	1.8
4/20/2023 11:15	Field Blank	Pesticides	Propiconazole	0.62 U	ng/L	0.62	3.1
4/20/2023 11:15	Field Blank	Pesticides	Ametryn	1.1 U	ng/L	1.1	5.7
4/20/2023 11:15	Field Blank	Pesticides	Atrazine Desethyl	1.3 U	ng/L	1.3	6.7
4/20/2023 11:15	Field Blank	Pesticides	Azinphos Methyl	3.1 U	ng/L	3.1	16
4/20/2023 11:15	Field Blank	Pesticides	Carfentrazone Ethyl	0.16 U	ng/L	0.16	0.78
4/20/2023 11:15	Field Blank	Pesticides	Ethion	0.31 U	ng/L	0.31	1.6
4/20/2023 11:15	Field Blank	Pesticides	Ethoprop	0.13 U	ng/L	0.13	0.65
4/20/2023 11:15	Field Blank	Pesticides	Metribuzin	0.41 U	ng/L	0.41	2.1
4/20/2023 11:15	Field Blank	Pesticides	Prometryn	0.36 UJ	ng/L	0.36	1.8
4/20/2023 11:15	Field Blank	Pesticides	Azoxystrobin	0.41 U	ng/L	0.41	2.1
4/20/2023 11:15	Field Blank	Pesticides	Stirophos	0.41 U	ng/L	0.41	3.3
4/20/2023 11:15	Field Blank	Pesticides	Chlorpyrifos Ethyl	0.31 U	ng/L	0.31	1.6
4/20/2023 11:15	Field Blank	Pesticides	Demeton	3.6 U	ng/L	3.6	18
4/20/2023 11:15	Field Blank	Pesticides	Fipronil Desulfinyl	0.10 U	ng/L	0.10	0.52
4/20/2023 11:15	Field Blank	Pesticides	Fipronil Sulfide	0.10 U	ng/L	0.10	0.52
4/20/2023 11:15	Field Blank	Pesticides	Fludioxonil	0.10 U	ng/L	0.10	0.52
4/20/2023 11:15	Field Blank	Pesticides	Metalaxyl	0.52 U	ng/L	0.52	2.6
4/20/2023 11:15	Field Blank	Pesticides	Mevinphos	1.0 U	ng/L	1.0	5.2
4/20/2023 11:15	Field Blank	Pesticides	Norflurazon	1.0 U	ng/L	1.0	5.2
4/20/2023 11:15	Field Blank	Pesticides	Parathion Methyl	0.21 U	ng/L	0.21	1.0
4/20/2023 11:15	Field Blank	Pesticides	Simazine	0.26 U	ng/L	0.26	1.3

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/20/2023 11:15	Field Blank	Pesticides	Terbuthylazine	0.21 U	ng/L	0.21	1.0
4/20/2023 11:15	Field Blank	Pesticides	Etridiazole	0.10 U	ng/L	0.10	0.52
4/20/2023 11:15	Field Blank	Pesticides	Butylate	0.21 U	ng/L	0.21	1.0
4/20/2023 11:15	Field Blank	Pesticides	Diazinon	0.13 U	ng/L	0.13	0.65
4/20/2023 11:15	Field Blank	Pesticides	Fenbuconazole	0.52 U	ng/L	0.52	2.6
4/20/2023 11:15	Field Blank	Pesticides	Fluazifop-P-butyl	0.10 U	ng/L	0.10	0.52
4/20/2023 11:15	Field Blank	Pesticides	Oxyfluorfen	0.21 U	ng/L	0.21	1.0
4/20/2023 11:15	Field Blank	Pesticides	Parathion Ethyl	0.16 U	ng/L	0.16	0.78
4/20/2023 11:15	Field Blank	Pesticides	Sulfentrazone	1.5 U	ng/L	1.5	7.3
4/20/2023 11:15	Field Blank	Pesticides	Terbufos	0.21 U	ng/L	0.21	1.0
4/20/2023 11:15	Field Blank	Pesticides	Dimethomorph	0.31 U	ng/L	0.31	1.6
4/20/2023 11:15	Field Blank	Pesticides	Napropamide	0.73 U	ng/L	0.73	3.6
4/20/2023 11:15	Field Blank	Pesticides	Propargite	0.83 U	ng/L	0.83	4.1
4/20/2023 11:15	Field Blank	Pesticides	Pyraflufen Ethyl	0.31 U	ng/L	0.31	1.6
4/20/2023 11:15	Field Blank	Pesticides	Pyridaben	1.5 U	ng/L	1.5	7.3
4/20/2023 11:15	Field Blank	Pesticides	Triadimefon	0.16 U	ng/L	0.16	0.78
4/20/2023 11:15	Field Blank	Pesticides	Sucralose	0.010 U	µg/L	0.010	0.040
4/20/2023 11:15	Field Blank	Pesticides	Naproxen	0.0080 U	µg/L	0.0080	0.032
4/20/2023 11:15	Field Blank	Pesticides	Chlorpyrifos Methyl	0.10 U	ng/L	0.10	0.52
4/20/2023 11:15	Field Blank	Pesticides	Cyanazine	5.2 U	ng/L	5.2	26
4/20/2023 11:15	Field Blank	Pesticides	Dimethenamid	0.10 UJ	ng/L	0.10	0.52
4/20/2023 11:15	Field Blank	Pesticides	EPTC	0.52 U	ng/L	0.52	2.6
4/20/2023 11:15	Field Blank	Pesticides	Hexazinone	0.52 U	ng/L	0.52	2.6
4/20/2023 11:15	Field Blank	Pesticides	Imazalil	0.67 U	ng/L	0.67	3.4
4/20/2023 11:15	Field Blank	Pesticides	Prodiamine	0.21 U	ng/L	0.21	1.0
4/20/2023 11:15	Field Blank	Pesticides	Pyriproxyfen	0.26 U	ng/L	0.26	1.7
4/20/2023 11:15	Field Blank	Pesticides	Alachlor	0.41 U	ng/L	0.41	2.1
4/20/2023 11:15	Field Blank	Pesticides	Bromacil	0.62 U	ng/L	0.62	3.1
4/20/2023 11:15	Field Blank	Pesticides	Coumaphos	1.1 U	ng/L	1.1	5.7
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Pentachlorophenol	0.52 U	µg/L	0.52	2.1
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.052 U	µg/L	0.052	0.21
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Benzo(a)anthracene	0.026 U	µg/L	0.026	0.10
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.052 U	µg/L	0.052	0.21
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Hexachlorobutadiene	0.052 U	µg/L	0.052	0.21

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Hexachlorobenzene	0.052 U	µg/L	0.052	0.21
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Chrysene	0.026 U	µg/L	0.026	0.10
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.052 U	µg/L	0.052	0.21
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Phenanthrene	0.10 U	µg/L	0.10	0.42
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.052 U	µg/L	0.052	0.21
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	2-Chlorophenol	0.052 U	µg/L	0.052	0.21
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	2,6-Dinitrotoluene	0.052 U	µg/L	0.052	0.21
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Acenaphthene	0.026 U	µg/L	0.026	0.10
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	N-Nitrosodimethylamine	2.1 U	µg/L	2.1	8.3
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	2,4-Dichlorophenol	0.052 U	µg/L	0.052	0.21
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.052 U	µg/L	0.052	0.21
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Benzo(b)fluoranthene	0.026 U	µg/L	0.026	0.10
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Butyl benzyl phthalate	1.0 U	µg/L	1.0	4.2
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Di-n-butyl phthalate	2.1 U	µg/L	2.1	8.3
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	0.10 U	µg/L	0.10	0.42
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Diethyl phthalate	2.1 U	µg/L	2.1	8.3
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Benzidine	10 U	µg/L	10	42
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Benzo(k)fluoranthene	0.026 U	µg/L	0.026	0.10
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	5.2 U	µg/L	5.2	21
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Azobenzene/1,2-Diphenylhydrazine	0.052 U	µg/L	0.052	0.21
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Dimethyl phthalate	0.21 U	µg/L	0.21	0.83
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Fluoranthene	0.052 U	µg/L	0.052	0.21
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	2-Chloronaphthalene	0.052 U	µg/L	0.052	0.21
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	2,4-Dimethylphenol	0.052 U	µg/L	0.052	0.21
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.052 U	µg/L	0.052	0.21
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.026 U	µg/L	0.026	0.10
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.052 U	µg/L	0.052	0.21
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Phenol	0.052 U	µg/L	0.052	0.21
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Pyrene	0.10 U	µg/L	0.10	0.42
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	2,4-Dinitrophenol	10 U	µg/L	10	42
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	2,4-Dinitrotoluene	0.052 U	µg/L	0.052	0.21
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	4-Nitrophenol	10 U	µg/L	10	42
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Anthracene	0.052 U	µg/L	0.052	0.21
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.026 U	µg/L	0.026	0.10

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Fluorene	0.026 U	µg/L	0.026	0.10
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.052 U	µg/L	0.052	0.21
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.026 U	µg/L	0.026	0.10
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Naphthalene	0.10 U	µg/L	0.10	0.42
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Nitrobenzene	0.052 U	µg/L	0.052	0.21
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	3,3'-Dichlorobenzidine	10 U	µg/L	10	42
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.052 U	µg/L	0.052	0.21
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.052 U	µg/L	0.052	0.21
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Acenaphthylene	0.026 U	µg/L	0.026	0.10
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Benzo(a)pyrene	0.026 U	µg/L	0.026	0.10
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Di-n-octyl phthalate	0.052 U	µg/L	0.052	0.21
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Hexachloroethane	0.052 U	µg/L	0.052	0.21
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	Isophorone	0.052 U	µg/L	0.052	0.21
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.1 U	µg/L	3.1	12
4/20/2023 11:15	Field Blank	Priority Organic Pollutants	2-Nitrophenol	0.052 U	µg/L	0.052	0.21