Effluent Quality Assessment of City of Lakeland - Glendale WRF Polk County NPDES # FL0039772 Sampled October 24, 2022

Division of Environmental Assessment and Restoration
Florida Department of Environmental Protection
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Summary of Results

All analytes measured in the effluent grab and composite samples complied with Class III Water Quality Criteria for Fresh Waters and effluent permit limits. The field blank samples were Y-qualified because they arrived late and were outside the acceptable temperature range. The AGP and nutrient results do not suggest a potential for nutrient enrichment of the receiving waters. Eighteen organic constituents were detected in the effluent grab sample.

Facility Overview

The City of Lakeland – Glendale Water Reclamation Facility 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 intermittently discharged into Carter Road Park Lakes, a Class III Fresh Water [waterbody identification (WBID) 1610], which flows to North Prong Alafia River (WBID 1621E), thence to Hillsborough Bay (Figure 1).

The Carter Road Park Lakes falls within the West Central Nutrient Watershed Region for Numeric Nutrient Criteria (NNC). For this region, the NNC, expressed as annual geometric means, are 0.49 mg/L total phosphorus and 1.65 mg/L total nitrogen (Paragraph 62-302.531(2)(c), F.A.C.). The receiving waterbody falls within the Peninsula bioregion; the daily average dissolved oxygen (DO) saturation shall not be below 38 percent in more than 10 percent of the values (Paragraph 62-302.533(1)(a), 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 grab and 24-hour flow proportioned composite samples were collected from monitoring site location EFD-01, for outfall D-001 on October 24, 2022. The field blank collected on October 24, 2022 arrived at the lab late and was outside the acceptable temperature range. Twenty-nine analytes were Y-qualified for improper preservation and four analytes were Q-qualified for being held beyond normal holding time. There is a permit limit for total suspended solids but the district office did not receive a sampling bottle for this analysis and it was not collected. There is a permit limit for *Escherichia coli* (*E. coli*) and this analyte was scheduled; enterococci analysis was requested by the samplers and performed by the overflow lab.

Samples were collected by Emmalise Hunter, Maryn Jones and Emily Larson (Southwest District Office). Analyses were performed by Benchmark EnviroAnalytical, Inc. in Palmetto, Eurofins Laboratories in Tampa and 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.

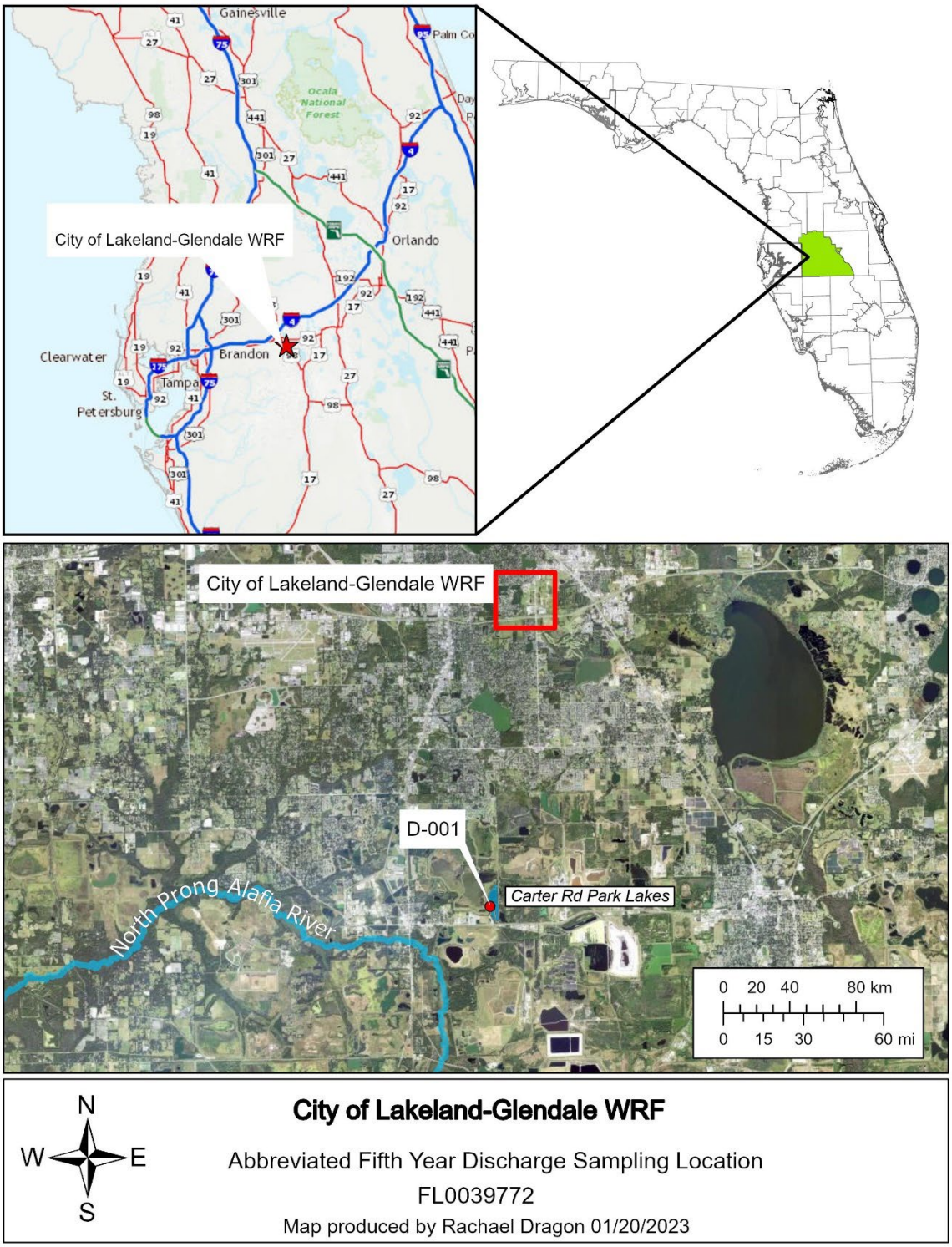


Figure 1. Map of City of Lakeland – Glendale WRF and Abbreviated Fifth Year Inspection Discharge Location

Results

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

- All effluent water quality parameters complied with Class III Water Quality Criteria for Fresh Waters and effluent permit limits.

Analytical Water Chemistry (See Table 2 and Appendix D)

- All water chemistry analytes detected in the effluent grab and composite samples complied with Class III Water Quality Criteria for Fresh Waters and effluent permit limits.

- Field blank samples were received outside the acceptable temperature range and results were Y-qualified.

- For comparative purposes only, total phosphorus in the effluent composite and grab samples was greater than the annual geometric mean limit for NNC in the West Central Nutrient Watershed Region.

Microbiology (See Table 2 and Appendix B)

- Effluent fecal coliform levels at EFD-01 complied with the effluent permit limit for EFA-01.

- There is an effluent permit limit for *E. coli* and this analyte was scheduled; enterococci analysis was requested by the samplers and performed by the overflow lab.

Toxicity Whole Effluent Test (See Table 2)

- Tests were performed October 25 through October 29, 2022.

- The sample was aerated for 20 minutes at a rate of approximately 100 bubbles per minute to decrease the dissolved oxygen (DO) from 10.3 mg/L to 8.6 mg/L.

- Acute bioassay results are reported as the Concentration Lethal to 50% of the test organisms (LC50).

- In a 96-hour acute definitive test of 100% effluent, mortality of <20% provides confidence that the effluent meets the acute toxicity criterion of Florida's Surface Water Quality Standards (Paragraph 62-302.500(1)(a), F.A.C.). Mortality between 20 and 50% indicates low to moderate levels of toxicity, and further action may be required. Mortality of >50% indicates that the effluent fails to meet the minimum requirement to discharge to waters of the state (Paragraph 62-4.244(3)(a), F.A.C.).

- For the 96-hour acute definitive test, the calculated LC50 for the water flea, *Ceriodaphnia dubia*, was >100% effluent with 0% mortality in 100% sample. The calculated LC50 for the fish, *Pimephales promelas*, was >100% effluent with 0%

mortality in 100% sample. The effluent sample was not toxic to either test species during the 96-hour acute definitive bioassays and therefore, complied with effluent permit limits.

- 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)

- All effluent metals complied with Class III Water Quality Criteria for Fresh Waters. There are no effluent permit limits for metals.

Algal Growth Potential (See Table 4 and Appendix B)

- The freshwater unicellular green alga, *Pseudokirchneriella subcapitata* was 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 0.395 mg dry wt/L is within the AGP range (0.11-0.80 mg dry wt/L) suggested to be representative of moderate productivity for freshwater (Miller et al. 1978).

- 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)

- Ametryn, atrazine, azoxystrobin, caffeine, fipronil desulfinyl, fipronil sulfide, fipronil sulfone, flutolanil, fluxapyroxad, metalaxyl, metolachlor, myclobutanil, oxadiazon, phenytoin, propiconazole, sulfentrazone, tebuconazole, and terbuthylazine were detected in the effluent grab sample.

- Six of these organic constituents are herbicides which may account for measured AGP results being lower than predicted AGP values.

- There are no effluent permit limits for organic constituents.

- Dimethyl phthalate was detected in the field blank. Field blank samples were received outside the acceptable temperature range and results were Y-qualified.

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 Fresh Waters, and field parameters

Parameter	Units	Class III Criteria	Effluent Permit Limits	Effluent grab (EFD-01)
Sample Depth	ft	-	-	1
Temperature	C	-	-	21.8
pH	SU	6.0 - 8.5	6.0 - 8.5 s	7.0
Specific Conductance	µmhos/cm	≤ 1,275	Report	763
Salinity	ppt	-	-	0.4 c
Dissolved Oxygen	% saturation	≥ 38	-	86.2
Dissolved Oxygen	mg/L	-	≥ 5.0 s	7.6

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

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

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

Analyte	Units	Class III Criteria	Effluent Permit Limits	Effluent composite (EFD-01)	Effluent grab (EFD-01)
Ortho-phosphate	mg P/L	-	-	-	3.0
Total Phosphorus	mg P/L	≤ 0.49 g	Report	3.4	3.2
Total Ammonia Nitrogen	mg N/L	≤ 4.23 sc	-	-	0.068
Un-ionized Ammonia (calculated salinity)	mg N/L	-	-	-	< 0.02 c
Nitrate and Nitrite	mg N/L	-	-	0.012	0.014
Total Kjeldahl Nitrogen	mg N/L	-	-	1.1	1.0
Organic Nitrogen	mg N/L	-	-	-	0.9 c
Total Nitrogen	mg N/L	≤ 1.65 g	≤ 6.0 sp	1.1 c	1 c
Total Organic Carbon	mg C/L	-	-	-	13
Chlorophyll *a* - Corrected	µg/L	-	-	-	9.2 A
Phaeophytin	µg/L	-	-	-	3.7 I
CBOD, 5 day, N - inhibited	mg/L	-	≤ 10.0 sp	4.9	-
Hardness	mg CaCO3/L	-	-	-	137 c
Turbidity	NTU	≤ 29 t	-	-	3.1
Color (true)	PCU	-	-	-	84
Alkalinity	mg CaCO3/L	≥ 20	-	-	141
Chloride	mg Cl/L	-	-	-	130 AJ
Fluoride	mg F/L	≤ 10.0	-	-	0.94
Sulfate	mg SO4/L	-	-	-	44 A
Fecal Coliforms	cfu/100 mL	-	≤ 86.0 s (EFA-01)	-	1 U
Enterococci	#/100 mL	-	-	-	121
Bioassay - Water flea *(C. dubia)*	% effluent	-	≥ 100 sp	> 100	-
Bioassay - Fish *(P. promelas)*	% effluent	-	≥ 100 sp	> 100	-

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
c- Value is calculated
g- Value expressed as annual geometric mean.
s- Single sample
p- 24 hour flow proportioned composite
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

Table 3. Analytical metals data

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

Analyte	Units	Class III Criteria Effluent grab	Effluent Permit Limits	Effluent composite (EFD-01)	Effluent grab (EFD-01)
Hardness	mg CaCO3/L	-	-	-	137 c
Aluminum	µg/L	-	-	-	56
Arsenic	µg/L	≤ 50	Report	1.99	2.09
Cadmium	µg/L	≤ 0.342 b	Report	0.026 I	0.020 U
Calcium	mg/L	-	-	-	39.2
Chromium, Total [1]	µg/L	≤ 112 b	Report	0.75 I	0.55 I
Copper	µg/L	≤ 12.2 b	Report	0.40 U	0.40 U
Iron	µg/L	≤ 1,000	-	-	36 I
Lead	µg/L	≤ 4.75 b	Report	0.20 U	0.20 U
Magnesium	mg/L	-	-	-	9.52
Mercury	ng/L	≤ 12	Report	2.0	-
Molybdenum	µg/L	-	Report	10.8	-
Nickel	µg/L	≤ 68.1 b	Report	4.8	4.7
Potassium	mg/L	-	-	-	15.5
Selenium	µg/L	≤ 5.0	-	-	0.49 I
Silver	µg/L	≤ 0.07	Report	0.010 U	0.010 U
Sodium	mg/L	-	-	-	80.0
Zinc	µg/L	≤ 157 b	Report	5.0 U	5.0 U

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
b - Value is calculated based on hardness, (62-302.530(3))
c - Value is calculated
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
1 - Class III Freshwater Quality Criterion (62-302.530(19)(a), F.A.C.) is for chromium-III

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	*P. subcapitata*	0.395 I	3.1 ± 0.6	1,290 ± 258	38.5 ± 7.7	1,376 ± 275.2	0.03	0.3

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

Table 5. Detected Organic Constituents

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

Analyte	Units	Class III Criteria	Effluent Permit Limits	Effluent grab (EFD-01)
Ametryn	ng/L	-	-	6.8
Atrazine	ng/L	-	-	35
Azoxystrobin	ng/L	-	-	6.1
Caffeine	ng/L	-	-	22 I
Fipronil Desulfinyl	ng/L	-	-	0.22 I
Fipronil Sulfide	ng/L	-	-	0.67
Fipronil Sulfone	ng/L	-	-	0.45 I
Flutolanil	ng/L	-	-	0.18 I
Fluxapyroxad	ng/L	-	-	0.34 I
Metalaxyl	ng/L	-	-	3.7
Metolachlor	ng/L	-	-	260
Myclobutanil	ng/L	-	-	0.73 I
Oxadiazon	ng/L	-	-	4.6
Phenytoin	ng/L	-	-	14
Propiconazole	ng/L	-	-	30
Sulfentrazone	ng/L	-	-	75
Tebuconazole	ng/L	-	-	57
Terbuthylazine	ng/L	-	-	1.5 I

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

Appendix A. Facility Summary

PART I: Information gathered prior to sampling event

Prepared By: Emily Larson	**Contact Number:** 813-470-5955
Facility Name (as it appears on permit): City of Lakeland - Glendale Water Reclamation Facility (WRF)	**Former Names:**
NPDES Permit Number: FL0039772	**Permit Expiration Date:** January 28, 2026
Physical Address: 1825 Glendale St., Lakeland, FL 33803-4300	
District: Southwest	**County:** Polk
Function of Facility: An existing 13.7 Million Gallons per Day (MGD) Annual Average Daily Flow (AADF), Type I activated sludge plug flow domestic wastewater treatment facility.	
Facility Type: Domestic Wastewater	**Permitted Capacity (MGD):** 13.7
Mean Flow for previous 12 months for all EXTERNAL outfalls listed in permit (list date range including months): 3.97 MGD	
If applicable, Mean Flow for previous 12 months for REUSE outfall(s) (list date range including months): FLW-04 (R-001): 0.09 MGD FLW-05 (R-002): 4.36 MGD FLW-06 (R-003): 0.08 MGD	
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):

Monitoring Site Number	Description of Monitoring Site
FLW-02	Flow Meter with recorder and totalizer to D-001.
EFD-01	Effluent at the outfall to the unnamed ditch (D-001).
EFA-01	Effluent after disinfection at Holding Basin prior to wetlands.
SWA-01	Background location for Specific Conductance Monitoring.
FLW-04	Flow Meter for Reuse Pump Station to R-001.
FLW-06	Flow Meter for Reuse System R-003.
EFA-02	Effluent prior to the Industrial Reuse.
FLW-05	Flow Meter for Reuse System R-002.
EFA-01	Effluent after disinfection at Holding Basin prior to wetlands.
FLW-01	At the headworks.
INF-01	At the headworks, prior to return activated sludge lines.

Description of Permitted Outfall(s):

Surface Water Discharge D-001: An existing 20.0 MGD annual average daily flow discharge to Carter Road Park Lakes, Class III fresh waters WBID# 1610, which flows to North Prong Alafia River (WBID 1621E), Class III fresh waters , thence to Hillsborough Bay, which is approximately 10 feet in length and discharges at a depth of approximately .5 feet. The point of discharge is located approximately at latitude 27°54' 0" N, longitude 81°56' 36" W.

Description of Treatment Process (if multiple discharge points, include a detailed map or diagram of facility):

The treatment system consists of the Glendale WRF, West Lakeland Wasteload Reduction Facility, and treatment wetlands.

Glendale WRF: An existing 13.7 Million Gallons per Day (MGD) Annual Average Daily Flow (AADF), Type I activated sludge plug flow domestic wastewater treatment facility consisting of: the headworks, three primary clarifiers, three aeration basins, four secondary clarifiers, two mesophilic digesters, (one egg-shaped digester and one feed sequence tank). Disinfection is accomplished by application of chlorine after the clarifiers, in the pipeline to the ground storage tank at the Northside plant to serve the McIntosh Power Generating Plant and, in the pipeline, transporting effluent to the wetland treatment system. The pipeline serves as the chlorine contact unit in the treatment process.

A series of holding ponds (Basins B, C, E, F and H) are maintained for the storage of treated effluent, to be used during abnormal flow events or other emergencies. The ponds are located on the site of the domestic wastewater treatment plant. An emergency discharge structure exists on Basin H to maintain berm integrity during extreme rainfall events; 25-year, 24-hour storm. The Department must be notified if the use of this discharge structure is necessary.

Sludge dewatering is conducted through the use of two centrifuges, feed pumps, polymer makeup systems, cake transport systems (screw conveyor), system control panels and additional components required for sludge dewatering and thickening. Components of the old plant such the old trickling filter, the two clarifiers may be available for additional storage capability for either raw effluent or partially treated effluent. This additional storage is about 2.23 MG and must be able to be returned to the head of the plant for full treatment

West Lakeland Wasteload Reduction Facility: A stand-alone facility, which consists of: headworks structure including various instrumentation with one auger monster, one bar screen, four gates and one jib crane; four aeration basins, one anoxic basin, one clarifier and one sludge holding tank.

Treatment Wetlands: Treatment to Advanced Wastewater quality is accomplished in an existing man-made wetlands treatment system prior to discharge. Disinfection is achieved as specified by Chapter 62-600.440(7)(c), F.A.C.

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 Number	Notes
Flow	MGD	Max Max	20.0 Report	Annual Average Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-02	See I.A.4
BOD, Carbonaceous 5 day, 20C	mg/L	Max Max Max Max	5.0 6.25 7.5 10.0	Annual Average Monthly Average Weekly Average Single Sample	5 Days/Week	24-hr FPC	EFD-01	See I.A.6
Solids, Total Suspended	mg/L	Max Max Max Max	5.0 6.25 7.5 10.0	Annual Average Monthly Average Weekly Average Single Sample	5 Days/Week	24-hr FPC	EFD-01	See I.A.6
Nitrogen, Total	mg/L	Max Max Max Max	3.0 3.75 4.5 6.0	Annual Average Monthly Average Weekly Average Single Sample	5 Days/Week	24-hr FPC	EFD-01	
Coliform, Fecal	#/100mL	Max Max Max Max	14 14 43 86	Annual Average Monthly Median 90th Percentile Single Sample	5 Days/Week	Grab	EFA-01	See I.A.7 and I.A.8
Phosphorus, Total (as P)	mg/L	Max Max Max Max	Report Report Report Report	Annual Average Monthly Average Weekly Average Single Sample	5 Days/Week	24-hr FPC	EFD-01	
pH	s.u.	Min Max	6.0 8.5	Single Sample Single Sample	Continuous	Meter	EFD-01	See I.A.3
Chlorine, Total Residual (For Disinfection)	mg/L	Min	1.0	Single Sample	Continuous	Meter	EFA-01	See I.A.3 and I.A.9
E.coli	#/100mL	Max Max	126 410	Monthly Geometric Mean 90th Percentile	10/Month	Grab	EFA-01	See I.A.8

PART I: Continued

List current 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 Number	Notes
Oxygen, Dissolved (DO)	mg/L	Min	5.0	Single Sample	5 Days/Week	Grab	EFD-01	
Specific Conductance	umhos/cm	Max	Report	Single Sample	5 Days/Week	Grab	EFD-01	See I.A.11
Specific Conductance (background)	umhos/cm	Max	Report	Single Sample	5 Days/Week	Grab	SWA-01	See I.A.11
Nitrogen, Total	ton/yr	Max Max	30.3 Report	Annual Total Monthly Total	Monthly	Calculated	EFD-01	
Nitrogen, Total	ton/yr	Max	20.2	5 Year Average	Monthly	Calculated	EFD-01	
Chronic Whole Effluent Toxicity, 7-Day IC25 (Ceriodaphnia dubia)	percent	Min	100	Single Sample	Quarterly	24-hr FPC	EFD-01	See I.A. 10
Chronic Whole Effluent Toxicity, 7-Day IC25 (Pimephales promelas)	percent	Min	100	Single Sample	Quarterly	24-hr FPC	EFD-01	See I.A.10
Silver, Total Recoverable	mg/L	Max	Report	Single Sample	Monthly	24-hr FPC	EFD-01	
Arsenic, Total Recoverable	mg/L	Max	Report	Single Sample	Monthly	24-hr FPC	EFD-01	
Cadmium, Total Recoverable	mg/L	Max	Report	Single Sample	Monthly	24-hr FPC	EFD-01	
Chromium, Total Recoverable	mg/L	Max	Report	Single Sample	Monthly	24-hr FPC	EFD-01	
Copper, Total Recoverable	mg/L	Max	Report	Single Sample	Monthly	24-hr FPC	EFD-01	
Mercury, Total Recoverable	mg/L	Max	Report	Single Sample	Monthly	24-hr FPC	EFD-01	
Nickel, Total Recoverable	mg/L	Max	Report	Single Sample	Monthly	24-hr FPC	EFD-01	

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 Number	Notes
Lead, Total Recoverable	mg/L	Max	Report	Single Sample	Monthly	24-hr FPC	EFD-01	
Zinc, Total Recoverable	mg/L	Max	Report	Single Sample	Monthly	24-hr FPC	EFD-01	
Molybdenum, Total Recoverable	mg/L	Max	Report	Single Sample	Monthly	24-hr FPC	EFD-01	

PART I: Continued

Receiving Waters:	**Classification (indicate whether fresh or marine):**
Carter Road Park Lakes	Class III fresh waters

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

The Southwest District requests that the toxicity tests performed for the City of Lakeland Glendale sampling event on October 24, 2022 be freshwater acute rather than a chronic test (as stated below in the permit).

1. 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) for growth 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. [Rules 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 three months, the first starting within 60 days of the effective date of this permit and lasting for the duration of this permit.
      (2) Upon completion of four consecutive, valid routine tests that demonstrate compliance with the effluent limitation in I.A.14.a.(1) above, the permittee may submit a written request to the Department for a reduction in monitoring frequency to once every six months. The request shall include a summary of the data and the complete bioassay laboratory reports for each test used to demonstrate compliance. The Department shall act on the request within 45 days of receipt. Reductions in monitoring shall only become effective upon the Department's written confirmation that the facility has completed four consecutive valid routine tests that demonstrate compliance with the effluent limitation in I.A.14.a.(1) above.
      (3) If a test within the sequence of the four is deemed invalid based on the acceptance criteria in EPA-821-R-02-014, but is replaced by a repeat valid test initiated within 21 days after the last day of the invalid test, the invalid test will not be counted against the requirement for four consecutive valid tests for the purpose of evaluating the reduction of monitoring frequency.

   c. Sampling Requirements
      (1) For each routine test or additional follow-up test conducted, a total of three grab 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 a mysid shrimp, **Americamysis (Mysidopsis) bahia**, Method 1007.0, and an 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 (0% effluent) 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 than 5ppt, the salinity shall be adjusted to 5 ppt with artificial sea salts. The salinity of the control/dilution water (0% effluent) 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, 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 (0% effluent) exceeds 20% for either species in any test or the "test acceptability criteria" are not met, 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 13.12 (**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 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 follows:

(a) Routine and Additional Follow-up Test Results: The calculated IC25 for growth for each test species shall be entered on the DMR.

(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 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 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 sent to:
Florida Department of Environmental Protection
Southwest District Office

13051 N Telecom Pkwy, Suite 101
Temple Terrace, Florida 33637-0926
Email: swd_iw@floridadep.gov

g. Test Failures
   (1) A test fails when the test results do not meet the limits in I.A.14.a.(1).
   (2) Additional Follow-up Tests:
      (a) If a routine test does not meet the chronic toxicity limitation in I.A.14.a.(1) above, 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 I.A.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 first additional follow-up test 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 second additional follow-up test 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 I.A.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 4.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 I.A.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. 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, 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 I.A.14.(a)(2), 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:

P 00400	**pH**		**5.2**	**6.0**	**s.u.**	**ME - Minimum**	**E**
P 00530	**Solids, Total Suspended**		**7.25**	**6.25**	**mg/L**	**MK - Monthly Average**	**E**
P 00300	**Oxygen, Dissolved (DO)**		**4.4**	**5.0**	**mg/L**	**ME - Minimum**	**E**
P 74055	**Coliform, Fecal**	**>**	**800**	**800.0**	**#/100mL**	**MB - Maximum**	**E**
P 50060	**Chlorine, Total Residual**		**0**	**0.5**	**mg/L**	**ME - Minimum**	**E**
P 74055	**Coliform, Fecal**		**140**	**86.0**	**#/100mL**	**MB - Maximum**	**E**
P 00300	**Oxygen, Dissolved (DO)**		**4.7**	**5.0**	**mg/L**	**ME - Minimum**	**E**
P 74055	**Coliform, Fecal**		**15**	**14.0**	**#/100mL**	**AB - Annual Average**	**E**
P 74055	**Coliform, Fecal**		**154**	**86.0**	**#/100mL**	**MB - Maximum**	**E**
P 80082	**BOD, Carbonaceous 5 day, 20C**		**8.4**	**7.5**	**mg/L**	**WA - Weekly Average**	**E**
P 80082	**BOD, Carbonaceous 5 day, 20C**		**13**	**10.0**	**mg/L**	**MB - Maximum**	**E**

Describe previous FYI and WQBEL study:
N/A

Describe previous or current Enforcement Actions (including WLs):
A proposed short form consent order was sent to the facility on July 19, 2022 for Sanitary Sewer Overflows (SSO's).

Describe any violations or problems noted in previous inspection:

1.1 Deficiency: The reduced pressure zone backflow preventer on the potable water supply line at the facility requires an annual inspection to assure that it is not malfunctioning.
Rule/Permit Reference: Rule/Permit Reference: Permit Condition V (C)(1) states in part that "records of all compliance monitoring, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, for at least three years from the date the sample or measurement was taken shall be maintained on the site of the permitted facility or activity and make them available for inspection.

Corrective Action: Submit to the Department backflow preventer test(s) records within 15 days of this letter date. *The facility provided copies of the backflow preventer test certifications on 11/24/2020. No further response is requested at this time.*

1.2 Deficiency: DMR data is missing on the Part A for Specific Conductance.
Rule/Permit Reference: Rule 62-302.530(22), F.A.C: The limit for "Specific Conductance" shall be 1.5 times the background value or 1275 umhos/cm, whichever is greater. And the current permit requires sampling of Specific Conductance background 5 days per week.

Corrective Action: Revise and resubmit the Part A and Part B DMRs to include the Specific Conductance results and calculations within 15 days from the date of this letter. *A phone call with the City on 11/23/2020 indicated that the City is sampling the background specific conductance when discharging through Outfall D-001 and data was provided on 11/23/2020. The City provided an email on 11/24/2020 indicating that the July 2020 DMR was revised and resubmitted to include the conductivity results and calculation. The City is currently revising and resubmitting the remaining DMRs.*

1.1 Deficiency: The flow meters were not calibrated within the last 12-months.
Rule/Permit Reference: Rule 62-601.200(17) and .500(6) – A recording flow meter with totalizer shall be utilized to measure flow and calibrated at least once every 12 months.

Corrective Action: Calibrate the flow meters and submit a record of calibration to the Department. *The flow meters were calibrated on 11/04/2020 and the record of calibration was received by the Department on 11/10/2020. No further response is requested at this time.*

1.3 Deficiency: The following exceedances were reported during the review period:

Ex #	Date	Monitoring	Description	Result	Limit	Units	Statistical Base
1	7/31/2020	R-001/ EFA-02	Chlorine, Total Residual	0.3	0.5	mg/L	Minimum
2	6/30/2020	D-001/ EFD-01	Solids, Total Suspended	14	10.0	mg/L	Maximum
3	6/30/2020	D-001/ EFD-01	pH	8.8	8.5	s.u.	Maximum
4	6/30/2020	R-001/ EFA-02	Chlorine, Total Residual	0.2	0.5	mg/L	ME - Minimum
5	1/31/2020	R-001/ EFA-02	pH	5.4	6.0	s.u.	ME - Minimum
6	10/31/2019	RMP-AA	Coliform, Fecal	> 16000	1000.0	MPN/g	MB - Maximum

Rule/Permit Reference:
Rule 62-600.500, F.A.C. states in part, the treatment standards contained in this Chapter shall be met before discharge into holding ponds (if applicable), reuse systems, disposal systems, or surface waters classified pursuant to Chapter 62-302, F.A.C. Treatment, at a minimum, shall consist of secondary treatment and, to the extent necessary, disinfection and pH control. Additional levels of treatment (beyond secondary) may be required pursuant to provisions contained in this chapter or in other Department rules. Effluent or reclaimed water limitations shall be achieved at the appropriate locations specified pursuant to both this part and Part II of Chapter 62-600, F.A.C.

Rule 62-640, F.A.C and Permit Condition II.B.7. provide that Class AA biosolids shall comply with the limits; either fecal coliform maximum limit of 1,000 MPN/g or Salmonella Sludge maximum limit of 3.0 MPN/4g must be met.

Corrective Action: Please provide the Department with an explanation for the exceedances tabulated above. *The facility provided the following explanations on the DMRs and post inspection. No further response is requested at this time:*

1. *On 7/21, the chlorine residual briefly dropped below the required 0.5 mg/L due to long detention time in the GST. This was due to a low demand for water.*
2. *On 6/22 - Hot, dry conditions increased algae growth in the conveyance upstream from EFD-01. Some algal mats broke loose, flowed through the effluent, and the position of the sampler tubing and pH sensor blocked the floating algae mats causing them to break apart and the resulting debris entered the sample. The sampler tubing was re-positioned in the stream so that it should no longer cause blockage to floating vegetation or algae.*
3. *On 6/26 - Discharge from Cell 5 was slowed and water was released from Cell 7 to flush the ditch downstream from Gate 11. Elevated pH in Cell 7 caused a temporary spike in pH at the effluent. Closer monitoring of pH and proper mixing of the two flows has been implemented to ensure pH remains within limits.*
4. *On June 9th, 17th, 18th, 19th, 20th, 22nd, and 23rd - The chlorine residual briefly dropped below the required 0.5 mg/L due to long detention time in the GST. This was due to a low demand for water.*
5. *There were no clear indicators for the low pH.*

The sludge was hauled to a landfill as soon as the test results came back with results greater than 1,000 MPN/g. We retested on the 10th with a result of 9,000 MPN/g and did not resume distributing to RMP-01 until the 14th when we received a result of 230 MPN/g. We believe the high fecal was the result of bringing digester 1 back online after it had been offline for an extended period of time. We think there may have been regrowth in the tank from it being offline.

Discuss whether DMR trends within previous five years are improving or declining:

DMR trends seem stable.

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

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.

- **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.

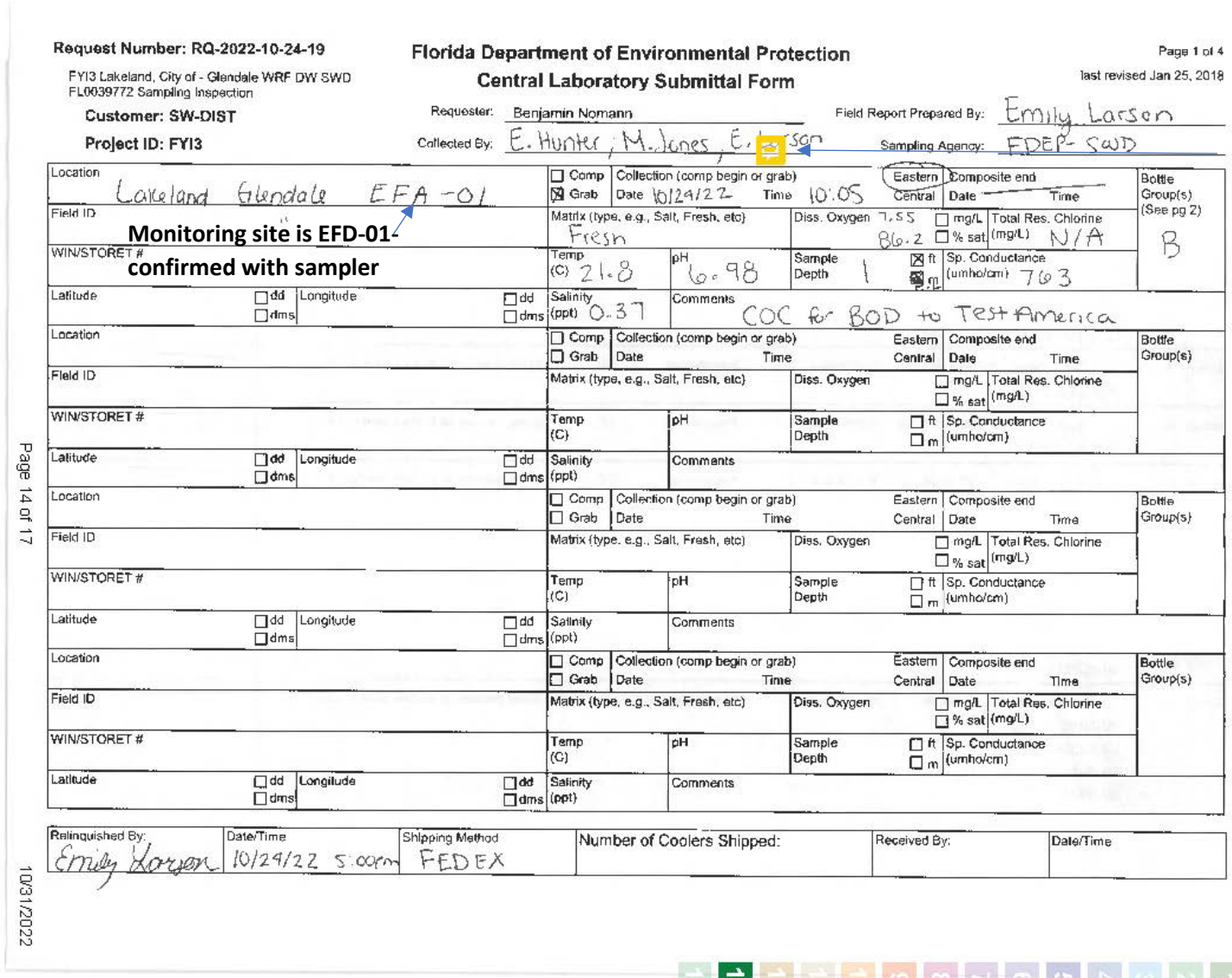
- **Chlorophyll *a* Content**

  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-2022-10-24-19

FYI3 Lakeland, City of - Glendale WRF DW SWD
FL0039772 Sampling Inspection

Customer: SW-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
Collected By: E. Hunter, M. Jones, E. Larsen
Field Report Prepared By: Emily Larsen
Sampling Agency: FDEP- SWD

Location: Lakeland Glendale EFA-01
Field ID:
WIN/STORET #:
Latitude: ☐ dd ☐ dms Longitude: ☐ dd ☐ dms

Monitoring site is EFD-01- confirmed with sampler

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 10/29/22 Time 10:05 | Eastern / Central | Composite end Date Time | Bottle Group(s) (See pg 2): B

Matrix (type, e.g., Salt, Fresh, etc): Fresh
Diss. Oxygen: 7.55 mg/L, 86.2 % sat
Total Res. Chlorine (mg/L): N/A
Temp (C): 21.8
pH: 6.98
Sample Depth: 1 ☒ ft ☐ m
Sp. Conductance (umho/cm): 763
Salinity (ppt): 0.37
Comments: COC for BOD to TestAmerica

Location:
Field ID:
WIN/STORET #:
Latitude: ☐ dd ☐ dms Longitude: ☐ dd ☐ dms

☐ Comp ☐ Grab | Collection (comp begin or grab) Date Time | Eastern / Central | Composite end Date Time | Bottle Group(s)

Matrix (type, e.g., Salt, Fresh, etc)
Diss. Oxygen ☐ mg/L ☐ % sat
Total Res. Chlorine (mg/L)
Temp (C)
pH
Sample Depth ☐ ft ☐ m
Sp. Conductance (umho/cm)
Salinity (ppt)
Comments

Location:
Field ID:
WIN/STORET #:
Latitude: ☐ dd ☐ dms Longitude: ☐ dd ☐ dms

☐ Comp ☐ Grab | Collection (comp begin or grab) Date Time | Eastern / Central | Composite end Date Time | Bottle Group(s)

Matrix (type, e.g., Salt, Fresh, etc)
Diss. Oxygen ☐ mg/L ☐ % sat
Total Res. Chlorine (mg/L)
Temp (C)
pH
Sample Depth ☐ ft ☐ m
Sp. Conductance (umho/cm)
Salinity (ppt)
Comments

Location:
Field ID:
WIN/STORET #:
Latitude: ☐ dd ☐ dms Longitude: ☐ dd ☐ dms

☐ Comp ☐ Grab | Collection (comp begin or grab) Date Time | Eastern / Central | Composite end Date Time | Bottle Group(s)

Matrix (type, e.g., Salt, Fresh, etc)
Diss. Oxygen ☐ mg/L ☐ % sat
Total Res. Chlorine (mg/L)
Temp (C)
pH
Sample Depth ☐ ft ☐ m
Sp. Conductance (umho/cm)
Salinity (ppt)
Comments

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Emily Larsen	10/29/22 5:00pm	FEDEX			

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10/31/2022

Sampler confirmed that the BOD bottle was filled from the composite which ended at 7am.

Request Number: RQ-2022-10-24-19

FYI3 Lakeland, City of - Glendale WRF DW SWD
FL0039772 Sampling Inspection

Customer: SW-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: Emily Larson

Collected By: E. Hunter, M. Jones, E. Larson

Sampling Agency: FDEP-SWD

Location: Lakeland Glendale EFA-01	☒ Comp ☐ Grab	Collection (comp begin or grab) Date 10/23/22 Time 7:00 AM ~~9:40 AM~~	Eastern Central	Composite end Date 10/24/22 Time 7:00 AM ~~9:40 AM~~	Bottle Group(s) (See pg 2)					
Field ID: 11	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	~~A~~ B E.L.				
WIN/STORET # **Monitoring site is EFD-01- confirmed with sampler**	Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)					
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	~~Salinity (ppt)~~ OV-CBOD-IN to Test America	Comments missing TSS bottle (P-500mL; W-TSS); not enough effluent for one volatile bottle/vial. Both times correspond when split happened							
Location: Lakeland Glendale EFA-01	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 10/24/22 Time 9:40 AM	Eastern Central	Composite end Date Time	Bottle Group(s)					
Field ID: "	Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 7.55 86.2	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L) N/A	A				
WIN/STORET #	Temp (C) 21.8	pH 6.98	Sample Depth 1	☒ ft ☐ m	Sp. Conductance (umho/cm) 763					
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt) 0.37	Comments BG-500mL W-BNA lost cap at out fall so did not fill bottle. Fecal + ENQ to Benchmark							
Location: Field Blank	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 10/24/22 Time 10:30AM	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)	C				
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
Emily Larson	10/24/22 5:00pm	FEDEX		KK	10.25.22 / 0930

Benchmark EnviroAnalytical, Inc. E84167 1711 Twelfth Street East Palmetto, FL 34221 (941) 723-9986 / (941) 723-6061 fax Sample Temperature checked upon receipt at BEA with Temperature Gun ID #258	**Benchmark EA South E85086** 1001 Corporate Avenue, Suite 102 North Port, FL 34289 (941) 625-3137 (941) 423-7336 fax Sample Temperature checked upon receipt at BEAS with Temperature Gun ID #7

Client Information: **FDEP**

Address: 13051 N. Telecom Parkway
Tampa FL 33604

Phone # 815-470-5878

Report to: benjamin.paswater@dep.state.fl.us & Emily.Larson@FloridaDEP.gov

Invoice to: FDEP Micro Overflow

PO# C00EF5

Project Name: Lakeland, City of-Glendale WRF RQ-2022-10-24-19

Laboratory Submission # 2210206

Sample Name	Sample Type[1] / Sample Matrix[2]	Collection		Container			Preservative[4]	Parameters for Analysis	Laboratory Sample #
		Date	Time	Qty	Capacity	Type[3]			
Lakeland-Glendale EFA-01 FC		10/24/2022	9:40AM	1		P		Fecal Coliform	1
Lakeland-Glendale EFA-01 ENC		10/24/2022	9:40AM	1		P		~~Fecal Coliform~~ Enterococci	2
Monitoring site is EFD-01- confirmed with sampler									

1. "Sample Type" is used to indicate whether the sample was a grab (G) or whether it was a composite (C).
2. "Sample Matrix" is used to indicate whether the sample is being discharged to drinking water (DW), groundwater (GW), surface water (SW), fresh surface water (FSW), saline surface water (SSW), soil, sediment (SDMNT), or sludge (SLDG).
3. "Container Type" is used to indicate whether the container is plastic (P) or glass (G).
4. **Sample must be refrigerated or stored in wet ice after collection. The temperature during storage should be less than or equal to 6°C (42.8°F).**
5. Under "Preservative," list any preservatives that were added to the sample container. Lot Number of preservative used is specific to the bottles included in the kit. $NaThio$, H_2SO_4 and HNO_3 do not have expiration dates per the manufacturer. Micro bottles are pre-preserved at manufacturing stage. 40mL vials are pre-preserved at manufacturing stage.

Instructions:

1. Each bottle has a label identifying sample ID, premeasured preservative contained in the bottle, sample type, client ID, and parameters for analysis.
2. The following information should be added to each bottle label after collection with permanent black ink: date and time of collection, sampler's name or initials, and any field number or ID.
3. All bottles not containing preservative may be rinsed with appropriate sample prior to collection.
4. The client is responsible for documentation of the sampling event. Please note special sampling events on the sample custody form.
5. Sample kit has been created by BEA using new, certified bottles unless otherwise noted.

Laboratory Sample Acceptability:
pH <2 : ☑ BEA Temperature: 5.1°C
BEAS Temperature:

1	Collected / Relinquished By & Affiliation: (Print & Sign) Maryn Jones MJ	Date 10/24/22	Time 11:58AM	Received By& Affiliation: (Print & Sign) KeraMcBan KMB	Date 10/24/22	Time 1158
2	Relinquished By& Affiliation: (Print & Sign)	Date	Time	Received By& Affiliation: (Print & Sign)	Date	Time

Appendix D. Chemical Analysis of Effluent

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
10/24/2022 9:40	Effluent grab	AGP/LN	Algal Growth Potential	0.395 I	mg DryWt/L	0.300	0.900
10/24/2022 9:40	Effluent grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	9.2 A	µg/L	1.8	5.4
10/24/2022 9:40	Effluent grab	Chlorophyll/Grain Size/BOD	Phaeophytin-a	3.7 I	µg/L	2.0	5.8
10/24/2022 9:40	Effluent grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	12 A	µg/L	1.3	3.9
10/24/2022 9:40	Effluent grab	Overflow	Enterococci-Quanti-Tray	121	MPN/100 mL	10	10
10/24/2022 9:40	Effluent grab	Overflow	Fecal Coliforms-Membrane Filter	1 U	cfu/100 mL	1	1
10/24/2022 7:00	Effluent composite	Overflow	Carbonaceous Biochemical Oxygen Demand	4.9	mg/L	2.0	2.0
10/24/2022 7:00	Effluent composite	Toxicology	Bioassay-Acute-Def-FW-Fish, LC50	100 L	LC50		
10/24/2022 7:00	Effluent composite	Toxicology	Bioassay-Acute-Def-FW-C.dubia, LC50	100 L	LC50		
10/24/2022 9:40	Effluent grab	Metals	Nickel	4.7	µg/L	0.50	2.0
10/24/2022 9:40	Effluent grab	Metals	Cadmium	0.020 U	µg/L	0.020	0.080
10/24/2022 9:40	Effluent grab	Metals	Calcium	39.2	mg/L	0.075	0.30
10/24/2022 9:40	Effluent grab	Metals	Potassium	15.5	mg/L	0.30	1.2
10/24/2022 9:40	Effluent grab	Metals	Arsenic	2.09	µg/L	0.050	0.20
10/24/2022 9:40	Effluent grab	Metals	Copper	0.40 U	µg/L	0.40	0.80
10/24/2022 7:00	Effluent composite	Metals	Chromium	0.75 I	µg/L	0.40	1.6
10/24/2022 9:40	Effluent grab	Metals	Silver	0.010 U	µg/L	0.010	0.040
10/24/2022 7:00	Effluent composite	Metals	Molybdenum	10.8	µg/L	0.15	0.60
10/24/2022 7:00	Effluent composite	Metals	Copper	0.40 U	µg/L	0.40	0.80
10/24/2022 7:00	Effluent composite	Metals	Cadmium	0.026 I	µg/L	0.020	0.080
10/24/2022 9:40	Effluent grab	Metals	Selenium	0.49 I	µg/L	0.20	0.80
10/24/2022 9:40	Effluent grab	Metals	Sodium	80.0	mg/L	0.50	2.0
10/24/2022 7:00	Effluent composite	Metals	Arsenic	1.99	µg/L	0.050	0.20
10/24/2022 9:40	Effluent grab	Metals	Aluminum	56	µg/L	5.0	20
10/24/2022 9:40	Effluent grab	Metals	Chromium	0.55 I	µg/L	0.40	1.6
10/24/2022 7:00	Effluent composite	Metals	Zinc	5.0 U	µg/L	5.0	20
10/24/2022 7:00	Effluent composite	Metals	Lead	0.20 U	µg/L	0.20	0.40
10/24/2022 7:00	Effluent composite	Metals	Silver	0.010 U	µg/L	0.010	0.040
10/24/2022 7:00	Effluent composite	Metals	Nickel	4.8	µg/L	0.50	2.0
10/24/2022 9:40	Effluent grab	Metals	Magnesium	9.52	mg/L	0.040	0.16

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
10/24/2022 9:40	Effluent grab	Metals	Zinc	5.0 U	µg/L	5.0	20
10/24/2022 9:40	Effluent grab	Metals	Lead	0.20 U	µg/L	0.20	0.40
10/24/2022 9:40	Effluent grab	Metals	Iron	36 I	µg/L	30	120
10/24/2022 9:40	Effluent grab	Nutrients	Sulfate	44 A	mg SO4/L	0.40	1.0
10/24/2022 9:40	Effluent grab	Nutrients	Fluoride	0.94	mg F/L	0.035	0.10
10/24/2022 9:40	Effluent grab	Nutrients	Turbidity	3.1	NTU	0.10	1.0
10/24/2022 7:00	Effluent composite	Nutrients	Kjeldahl Nitrogen	1.1	mg N/L	0.080	0.20
10/24/2022 9:40	Effluent grab	Nutrients	Ammonia-N	0.068	mg N/L	0.0020	0.0050
10/24/2022 9:40	Effluent grab	Nutrients	Chloride	130 AJ	mg Cl/L	0.40	1.0
10/24/2022 7:00	Effluent composite	Nutrients	NO2NO3-N	0.012	mg N/L	0.0040	0.010
10/24/2022 9:40	Effluent grab	Nutrients	Organic Carbon	13	mg C/L	0.50	1.0
10/24/2022 9:40	Effluent grab	Nutrients	Kjeldahl Nitrogen	1.0	mg N/L	0.080	0.20
10/24/2022 9:40	Effluent grab	Nutrients	Total-P	3.2	mg P/L	0.050	0.25
10/24/2022 9:40	Effluent grab	Nutrients	NO2NO3-N	0.014	mg N/L	0.0040	0.010
10/24/2022 9:40	Effluent grab	Nutrients	Color (true)	84	PCU	2.5	6.0
10/24/2022 9:40	Effluent grab	Nutrients	Total Alkalinity	141	mg CaCO3/L	0.65	2.5
10/24/2022 9:40	Effluent grab	Nutrients	O-Phosphate-P	3.0	mg P/L	0.080	0.20
10/24/2022 7:00	Effluent composite	Nutrients	Total-P	3.4	mg P/L	0.050	0.25
10/24/2022 7:00	Effluent composite	Overflow	Mercury	2.0	ng/L	0.20	0.50
10/24/2022 9:40	Effluent grab	Pesticides	Phorate	0.51 U	ng/L	0.51	2.0
10/24/2022 9:40	Effluent grab	Pesticides	Caffeine	22 I	ng/L	7.3	29
10/24/2022 9:40	Effluent grab	Pesticides	Sucralose	50	µg/L	0.10	0.40
10/24/2022 9:40	Effluent grab	Pesticides	Naproxen	0.0080 U	µg/L	0.0080	0.032
10/24/2022 9:40	Effluent grab	Pesticides	Acetochlor	0.24 U	ng/L	0.24	0.97
10/24/2022 9:40	Effluent grab	Pesticides	Alachlor	0.24 U	ng/L	0.24	0.97
10/24/2022 9:40	Effluent grab	Pesticides	Butylate	0.39 U	ng/L	0.39	1.6
10/24/2022 9:40	Effluent grab	Pesticides	Chlorpyrifos Methyl	0.049 U	ng/L	0.049	0.19
10/24/2022 9:40	Effluent grab	Pesticides	Dimethenamid	0.097 U	ng/L	0.097	0.39
10/24/2022 9:40	Effluent grab	Pesticides	Fipronil	0.24 U	ng/L	0.24	0.97
10/24/2022 9:40	Effluent grab	Pesticides	Fluazifop-P-butyl	0.097 U	ng/L	0.097	0.39
10/24/2022 9:40	Effluent grab	Pesticides	Fludioxonil	0.12 U	ng/L	0.12	0.49
10/24/2022 9:40	Effluent grab	Pesticides	Fluxapyroxad	0.34 I	ng/L	0.097	0.39
10/24/2022 9:40	Effluent grab	Pesticides	Molinate	0.29 U	ng/L	0.29	1.2
10/24/2022 9:40	Effluent grab	Pesticides	Oxyfluorfen	0.15 U	ng/L	0.15	0.58

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
10/24/2022 9:40	Effluent grab	Pesticides	Dimethomorph	0.17 U	ng/L	0.17	1.0
10/24/2022 9:40	Effluent grab	Pesticides	Loratadine	0.34 U	ng/L	0.34	1.4
10/24/2022 9:40	Effluent grab	Pesticides	Triadimefon	0.24 U	ng/L	0.24	0.97
10/24/2022 9:40	Effluent grab	Pesticides	Dithiopyr	0.61 U	ng/L	0.61	2.4
10/24/2022 9:40	Effluent grab	Pesticides	Fipronil Sulfide	0.67	ng/L	0.15	0.58
10/24/2022 9:40	Effluent grab	Pesticides	Flumioxazin	4.4 U	ng/L	4.4	17
10/24/2022 9:40	Effluent grab	Pesticides	Hexazinone	0.49 U	ng/L	0.49	1.9
10/24/2022 9:40	Effluent grab	Pesticides	Metolachlor	260	ng/L	3.4	14
10/24/2022 9:40	Effluent grab	Pesticides	Parathion Ethyl	0.24 U	ng/L	0.24	0.97
10/24/2022 9:40	Effluent grab	Pesticides	Coumaphos	0.49 U	ng/L	0.49	1.9
10/24/2022 9:40	Effluent grab	Pesticides	Etridiazole	0.15 U	ng/L	0.15	0.58
10/24/2022 9:40	Effluent grab	Pesticides	Ibuprofen	0.20 U	µg/L	0.20	0.80
10/24/2022 9:40	Effluent grab	Pesticides	Ametryn	6.8	ng/L	0.58	2.3
10/24/2022 9:40	Effluent grab	Pesticides	Azinphos Methyl	1.9 U	ng/L	1.9	7.8
10/24/2022 9:40	Effluent grab	Pesticides	Ethion	0.15 U	ng/L	0.15	0.58
10/24/2022 9:40	Effluent grab	Pesticides	Fipronil Desulfinyl	0.22 I	ng/L	0.12	0.49
10/24/2022 9:40	Effluent grab	Pesticides	Mevinphos	1.0 U	ng/L	1.0	4.1
10/24/2022 9:40	Effluent grab	Pesticides	Pendimethalin	0.97 U	ng/L	0.97	3.9
10/24/2022 9:40	Effluent grab	Pesticides	Prometryn	0.19 U	ng/L	0.19	0.78
10/24/2022 9:40	Effluent grab	Pesticides	Simazine	0.49 U	ng/L	0.49	1.9
10/24/2022 9:40	Effluent grab	Pesticides	Terbufos	0.097 U	ng/L	0.097	0.39
10/24/2022 9:40	Effluent grab	Pesticides	Chlorfenapyr	0.17 U	ng/L	0.17	0.68
10/24/2022 9:40	Effluent grab	Pesticides	Napropamide	0.39 U	ng/L	0.39	1.6
10/24/2022 9:40	Effluent grab	Pesticides	Propargite	1.5 U	ng/L	1.5	5.8
10/24/2022 9:40	Effluent grab	Pesticides	Pyridaben	0.44 U	ng/L	0.44	2.2
10/24/2022 9:40	Effluent grab	Pesticides	Azoxystrobin	6.1	ng/L	0.49	1.9
10/24/2022 9:40	Effluent grab	Pesticides	Cyanazine	3.2 U	ng/L	3.2	13
10/24/2022 9:40	Effluent grab	Pesticides	EPTC	1.2 U	ng/L	1.2	4.9
10/24/2022 9:40	Effluent grab	Pesticides	Flutolanil	0.18 I	ng/L	0.097	0.39
10/24/2022 9:40	Effluent grab	Pesticides	Naled	1.5 U	ng/L	1.5	5.8
10/24/2022 9:40	Effluent grab	Pesticides	Phenytoin	14	ng/L	3.4	14
10/24/2022 9:40	Effluent grab	Pesticides	Atrazine	35	ng/L	0.24	0.97
10/24/2022 9:40	Effluent grab	Pesticides	Atrazine Desethyl	1.5 U	ng/L	1.5	5.8
10/24/2022 9:40	Effluent grab	Pesticides	Carbophenothion	0.19 U	ng/L	0.19	0.78

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
10/24/2022 9:40	Effluent grab	Pesticides	Disulfoton	0.49 U	ng/L	0.49	1.9
10/24/2022 9:40	Effluent grab	Pesticides	Fipronil Sulfone	0.45 I	ng/L	0.15	0.58
10/24/2022 9:40	Effluent grab	Pesticides	Fonofos	0.19 U	ng/L	0.19	0.78
10/24/2022 9:40	Effluent grab	Pesticides	Iprodione	0.58 U	ng/L	0.58	2.3
10/24/2022 9:40	Effluent grab	Pesticides	Prometon	0.87 U	ng/L	0.87	3.5
10/24/2022 9:40	Effluent grab	Pesticides	Propiconazole	30	ng/L	0.49	1.9
10/24/2022 9:40	Effluent grab	Pesticides	Pyriproxyfen	0.12 U	ng/L	0.12	0.49
10/24/2022 9:40	Effluent grab	Pesticides	Sulfentrazone	75	ng/L	0.49	1.9
10/24/2022 9:40	Effluent grab	Pesticides	Diazinon	0.12 U	ng/L	0.12	0.49
10/24/2022 9:40	Effluent grab	Pesticides	Imazalil	0.73 U	ng/L	0.73	2.9
10/24/2022 9:40	Effluent grab	Pesticides	Metribuzin	1.5 U	ng/L	1.5	5.8
10/24/2022 9:40	Effluent grab	Pesticides	Terbuthylazine	1.5 I	ng/L	0.41	1.7
10/24/2022 9:40	Effluent grab	Pesticides	Cyprodinil	0.097 U	ng/L	0.097	0.49
10/24/2022 9:40	Effluent grab	Pesticides	Propanil	0.12 U	ng/L	0.12	0.49
10/24/2022 9:40	Effluent grab	Pesticides	Bromacil	0.49 U	ng/L	0.49	1.9
10/24/2022 9:40	Effluent grab	Pesticides	Carfentrazone Ethyl	0.097 U	ng/L	0.097	0.39
10/24/2022 9:40	Effluent grab	Pesticides	Demeton	1.5 U	ng/L	1.5	5.8
10/24/2022 9:40	Effluent grab	Pesticides	Fenamiphos	0.49 U	ng/L	0.49	1.9
10/24/2022 9:40	Effluent grab	Pesticides	Fenbuconazole	0.12 U	ng/L	0.12	0.49
10/24/2022 9:40	Effluent grab	Pesticides	Metalaxyl	3.7	ng/L	0.73	2.9
10/24/2022 9:40	Effluent grab	Pesticides	Myclobutanil	0.73 I	ng/L	0.24	0.97
10/24/2022 9:40	Effluent grab	Pesticides	Oxadiazon	4.6	ng/L	0.29	1.2
10/24/2022 9:40	Effluent grab	Pesticides	Prodiamine	0.17 U	ng/L	0.17	0.68
10/24/2022 9:40	Effluent grab	Pesticides	Pronamide	0.15 U	ng/L	0.15	0.58
10/24/2022 9:40	Effluent grab	Pesticides	Tebuconazole	57	ng/L	0.49	1.9
10/24/2022 9:40	Effluent grab	Pesticides	Pyraflufen Ethyl	0.24 U	ng/L	0.24	0.97
10/24/2022 9:40	Effluent grab	Pesticides	Stirophos	0.12 U	ng/L	0.12	0.49
10/24/2022 9:40	Effluent grab	Pesticides	Thiobencarb	0.58 U	ng/L	0.58	2.3
10/24/2022 9:40	Effluent grab	Pesticides	Chlorpyrifos Ethyl	0.24 U	ng/L	0.24	0.97
10/24/2022 9:40	Effluent grab	Pesticides	Difenoconazole	0.58 U	ng/L	0.58	2.3
10/24/2022 9:40	Effluent grab	Pesticides	Ethoprop	0.097 U	ng/L	0.097	0.39
10/24/2022 9:40	Effluent grab	Pesticides	Malathion	0.34 U	ng/L	0.34	1.4
10/24/2022 9:40	Effluent grab	Pesticides	Norflurazon	0.49 U	ng/L	0.49	1.9
10/24/2022 9:40	Effluent grab	Pesticides	Parathion Methyl	0.53 U	ng/L	0.53	2.1

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.1 U	µg/L	3.1	12
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Benzo(a)anthracene	0.026 U	µg/L	0.026	0.10
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Pentachlorophenol	0.52 U	µg/L	0.52	2.1
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Hexachlorobenzene	0.052 U	µg/L	0.052	0.21
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	2-Chlorophenol	0.052 U	µg/L	0.052	0.21
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	2-Nitrophenol	0.052 U	µg/L	0.052	0.21
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	2,4-Dinitrotoluene	0.052 U	µg/L	0.052	0.21
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Anthracene	0.052 U	µg/L	0.052	0.21
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	5.2 U	µg/L	5.2	21
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Nitrobenzene	0.052 U	µg/L	0.052	0.21
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Dimethyl phthalate	0.21 U	µg/L	0.21	0.83
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.052 U	µg/L	0.052	0.21
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.052 U	µg/L	0.052	0.21
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.052 U	µg/L	0.052	0.21
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.026 U	µg/L	0.026	0.10
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.052 U	µg/L	0.052	0.21
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Isophorone	0.052 U	µg/L	0.052	0.21
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Phenanthrene	0.10 U	µg/L	0.10	0.42
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Phenol	0.052 U	µg/L	0.052	0.21
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	3,3'-Dichlorobenzidine	10 U	µg/L	10	42
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	4-Nitrophenol	10 U	µg/L	10	42
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Acenaphthene	0.026 U	µg/L	0.026	0.10
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Acenaphthylene	0.026 U	µg/L	0.026	0.10
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Naphthalene	0.10 U	µg/L	0.10	0.42
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Di-n-octyl phthalate	0.052 U	µg/L	0.052	0.21
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Fluoranthene	0.052 U	µg/L	0.052	0.21
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Pyrene	0.10 U	µg/L	0.10	0.42
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	2,4-Dimethylphenol	0.052 U	µg/L	0.052	0.21
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Benzo(a)pyrene	0.026 U	µg/L	0.026	0.10
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.052 U	µg/L	0.052	0.21
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Di-n-butyl phthalate	2.1 U	µg/L	2.1	8.3
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Butyl benzyl phthalate	1.0 U	µg/L	1.0	4.2
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Chrysene	0.026 U	µg/L	0.026	0.10
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Diethyl phthalate	2.1 U	µg/L	2.1	8.3

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Hexachloroethane	0.052 U	µg/L	0.052	0.21
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	2-Chloronaphthalene	0.052 U	µg/L	0.052	0.21
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	2,4-Dichlorophenol	0.052 U	µg/L	0.052	0.21
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	2,4-Dinitrophenol	10 U	µg/L	10	42
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.052 U	µg/L	0.052	0.21
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Benzidine	10 U	µg/L	10	42
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.026 U	µg/L	0.026	0.10
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Benzo(k)fluoranthene	0.026 U	µg/L	0.026	0.10
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Fluorene	0.026 U	µg/L	0.026	0.10
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Hexachlorobutadiene	0.052 U	µg/L	0.052	0.21
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.052 U	µg/L	0.052	0.21
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	N-Nitrosodimethylamine	2.1 U	µg/L	2.1	8.3
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.052 U	µg/L	0.052	0.21
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.052 U	µg/L	0.052	0.21
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.052 U	µg/L	0.052	0.21
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	2,6-Dinitrotoluene	0.052 U	µg/L	0.052	0.21
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Benzo(b)fluoranthene	0.026 U	µg/L	0.026	0.10
10/24/2022 9:40	Effluent grab	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.026 U	µg/L	0.026	0.10
10/24/2022 9:40	Effluent grab	Nutrients	Dissolved Oxygen %Sat	86.2	%Sat		
10/24/2022 9:40	Effluent grab	Nutrients	Specific Conductance	763	umhos/cm		
10/24/2022 9:40	Effluent grab	Nutrients	Sample Depth	1	ft		
10/24/2022 9:40	Effluent grab	Nutrients	pH	6.98	SU		
10/24/2022 9:40	Effluent grab	Nutrients	Temperature	21.8	C		
10/24/2022 10:30	Blank	Metals	Selenium	0.20 U	µg/L	0.20	0.80
10/24/2022 10:30	Blank	Metals	Potassium	0.30 U	mg/L	0.30	1.2
10/24/2022 10:30	Blank	Metals	Molybdenum	0.15 U	µg/L	0.15	0.60
10/24/2022 10:30	Blank	Metals	Lead	0.20 U	µg/L	0.20	0.40
10/24/2022 10:30	Blank	Metals	Chromium	0.40 U	µg/L	0.40	1.6
10/24/2022 10:30	Blank	Metals	Aluminum	5.0 U	µg/L	5.0	20
10/24/2022 10:30	Blank	Metals	Copper	0.40 U	µg/L	0.40	0.80
10/24/2022 10:30	Blank	Metals	Sodium	0.50 U	mg/L	0.50	2.0
10/24/2022 10:30	Blank	Metals	Iron	30 U	µg/L	30	120
10/24/2022 10:30	Blank	Metals	Calcium	0.075 U	mg/L	0.075	0.30
10/24/2022 10:30	Blank	Metals	Arsenic	0.050 U	µg/L	0.050	0.20

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
10/24/2022 10:30	Blank	Metals	Magnesium	0.040 U	mg/L	0.040	0.16
10/24/2022 10:30	Blank	Metals	Zinc	5.0 U	µg/L	5.0	20
10/24/2022 10:30	Blank	Metals	Silver	0.010 U	µg/L	0.010	0.040
10/24/2022 10:30	Blank	Metals	Nickel	0.50 U	µg/L	0.50	2.0
10/24/2022 10:30	Blank	Metals	Cadmium	0.020 U	µg/L	0.020	0.080
10/24/2022 10:30	Blank	Nutrients	O-Phosphate-P	0.004 UYQ	mg P/L	0.0040	0.010
10/24/2022 10:30	Blank	Nutrients	Color (true)	2.5 UYQ	PCU	2.5	6.0
10/24/2022 10:30	Blank	Nutrients	Organic Carbon	0.50 UY	mg C/L	0.50	1.0
10/24/2022 10:30	Blank	Nutrients	Kjeldahl Nitrogen	0.080 UY	mg N/L	0.080	0.20
10/24/2022 10:30	Blank	Nutrients	NO2NO3-N	0.004 UY	mg N/L	0.0040	0.010
10/24/2022 10:30	Blank	Nutrients	Total Alkalinity	0.65 UY	mg CaCO3/L	0.65	2.5
10/24/2022 10:30	Blank	Nutrients	Chloride	0.20 U	mg Cl/L	0.20	0.50
10/24/2022 10:30	Blank	Nutrients	Total-P	0.002 UY	mg P/L	0.0020	0.0050
10/24/2022 10:30	Blank	Nutrients	Ammonia-N	0.002 UY	mg N/L	0.0020	0.0050
10/24/2022 10:30	Blank	Nutrients	Fluoride	0.025 U	mg F/L	0.025	0.10
10/24/2022 10:30	Blank	Nutrients	Sulfate	0.20 UY	mg SO4/L	0.20	0.50
10/24/2022 10:30	Blank	Nutrients	Turbidity	0.10 UYQ	NTU	0.10	1.0
10/24/2022 10:30	Blank	Pesticides	Atrazine Desethyl	1.4 UY	ng/L	1.4	5.8
10/24/2022 10:30	Blank	Pesticides	Diazinon	0.12 UY	ng/L	0.12	0.48
10/24/2022 10:30	Blank	Pesticides	Fenamiphos	0.48 UY	ng/L	0.48	1.9
10/24/2022 10:30	Blank	Pesticides	Fipronil Sulfide	0.14 UY	ng/L	0.14	0.58
10/24/2022 10:30	Blank	Pesticides	Fludioxonil	0.12 UY	ng/L	0.12	0.48
10/24/2022 10:30	Blank	Pesticides	Flumioxazin	4.3 UY	ng/L	4.3	17
10/24/2022 10:30	Blank	Pesticides	Flutolanil	0.096 UY	ng/L	0.096	0.38
10/24/2022 10:30	Blank	Pesticides	Parathion Methyl	0.53 UY	ng/L	0.53	2.1
10/24/2022 10:30	Blank	Pesticides	Phorate	0.51 UY	ng/L	0.51	2.0
10/24/2022 10:30	Blank	Pesticides	Pronamide	0.14 UY	ng/L	0.14	0.58
10/24/2022 10:30	Blank	Pesticides	Pyriproxyfen	0.12 UY	ng/L	0.12	0.48
10/24/2022 10:30	Blank	Pesticides	Chlorfenapyr	0.17 UY	ng/L	0.17	0.67
10/24/2022 10:30	Blank	Pesticides	Thiobencarb	0.58 UY	ng/L	0.58	2.3
10/24/2022 10:30	Blank	Pesticides	Ametryn	0.58 UY	ng/L	0.58	2.3
10/24/2022 10:30	Blank	Pesticides	Carfentrazone Ethyl	0.096 UY	ng/L	0.096	0.38
10/24/2022 10:30	Blank	Pesticides	Difenoconazole	0.58 UY	ng/L	0.58	2.3
10/24/2022 10:30	Blank	Pesticides	Demeton	1.4 UY	ng/L	1.4	5.8

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
10/24/2022 10:30	Blank	Pesticides	Imazalil	0.72 UY	ng/L	0.72	2.9
10/24/2022 10:30	Blank	Pesticides	Metolachlor	0.34 UY	ng/L	0.34	1.3
10/24/2022 10:30	Blank	Pesticides	Ethion	0.14 UY	ng/L	0.14	0.58
10/24/2022 10:30	Blank	Pesticides	Fipronil Sulfone	0.14 UY	ng/L	0.14	0.58
10/24/2022 10:30	Blank	Pesticides	Oxyfluorfen	0.14 UY	ng/L	0.14	0.58
10/24/2022 10:30	Blank	Pesticides	Tebuconazole	0.48 UY	ng/L	0.48	1.9
10/24/2022 10:30	Blank	Pesticides	Terbuthylazine	0.41 UY	ng/L	0.41	1.6
10/24/2022 10:30	Blank	Pesticides	Coumaphos	0.48 UY	ng/L	0.48	1.9
10/24/2022 10:30	Blank	Pesticides	Naproxen	0.0080 UY	µg/L	0.0080	0.032
10/24/2022 10:30	Blank	Pesticides	Azinphos Methyl	1.9 UY	ng/L	1.9	7.7
10/24/2022 10:30	Blank	Pesticides	Dithiopyr	0.60 UY	ng/L	0.60	2.4
10/24/2022 10:30	Blank	Pesticides	Metalaxyl	0.72 UY	ng/L	0.72	2.9
10/24/2022 10:30	Blank	Pesticides	Metribuzin	1.4 UY	ng/L	1.4	5.8
10/24/2022 10:30	Blank	Pesticides	EPTC	1.2 UY	ng/L	1.2	4.8
10/24/2022 10:30	Blank	Pesticides	Ethoprop	0.096 UY	ng/L	0.096	0.38
10/24/2022 10:30	Blank	Pesticides	Pendimethalin	0.96 UY	ng/L	0.96	3.8
10/24/2022 10:30	Blank	Pesticides	Prodiamine	0.17 UY	ng/L	0.17	0.67
10/24/2022 10:30	Blank	Pesticides	Etridiazole	0.14 UY	ng/L	0.14	0.58
10/24/2022 10:30	Blank	Pesticides	Atrazine	0.24 UY	ng/L	0.24	0.96
10/24/2022 10:30	Blank	Pesticides	Chlorpyrifos Methyl	0.048 UY	ng/L	0.048	0.19
10/24/2022 10:30	Blank	Pesticides	Oxadiazon	0.29 UY	ng/L	0.29	1.2
10/24/2022 10:30	Blank	Pesticides	Phenytoin	3.4 UY	ng/L	3.4	13
10/24/2022 10:30	Blank	Pesticides	Napropamide	0.38 UY	ng/L	0.38	1.5
10/24/2022 10:30	Blank	Pesticides	Triadimefon	0.24 UY	ng/L	0.24	0.96
10/24/2022 10:30	Blank	Pesticides	Acetochlor	0.24 UY	ng/L	0.24	0.96
10/24/2022 10:30	Blank	Pesticides	Butylate	0.38 UY	ng/L	0.38	1.5
10/24/2022 10:30	Blank	Pesticides	Fenbuconazole	0.12 UY	ng/L	0.12	0.48
10/24/2022 10:30	Blank	Pesticides	Fipronil	0.24 UY	ng/L	0.24	0.96
10/24/2022 10:30	Blank	Pesticides	Naled	1.4 UY	ng/L	1.4	5.8
10/24/2022 10:30	Blank	Pesticides	Prometryn	0.19 UY	ng/L	0.19	0.77
10/24/2022 10:30	Blank	Pesticides	Terbufos	0.096 UY	ng/L	0.096	0.38
10/24/2022 10:30	Blank	Pesticides	Dimethomorph	0.17 UY	ng/L	0.17	1.0
10/24/2022 10:30	Blank	Pesticides	Propanil	0.12 UY	ng/L	0.12	0.48
10/24/2022 10:30	Blank	Pesticides	Stirophos	0.12 UY	ng/L	0.12	0.48

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
10/24/2022 10:30	Blank	Pesticides	Alachlor	0.24 UY	ng/L	0.24	0.96
10/24/2022 10:30	Blank	Pesticides	Bromacil	0.48 UY	ng/L	0.48	1.9
10/24/2022 10:30	Blank	Pesticides	Carbophenothion	0.19 UY	ng/L	0.19	0.77
10/24/2022 10:30	Blank	Pesticides	Dimethenamid	0.096 UY	ng/L	0.096	0.38
10/24/2022 10:30	Blank	Pesticides	Malathion	0.34 UY	ng/L	0.34	1.3
10/24/2022 10:30	Blank	Pesticides	Fluazifop-P-butyl	0.096 UY	ng/L	0.096	0.38
10/24/2022 10:30	Blank	Pesticides	Fluxapyroxad	0.096 UY	ng/L	0.096	0.38
10/24/2022 10:30	Blank	Pesticides	Mevinphos	1.0 UY	ng/L	1.0	4.0
10/24/2022 10:30	Blank	Pesticides	Propiconazole	0.48 UY	ng/L	0.48	1.9
10/24/2022 10:30	Blank	Pesticides	Azoxystrobin	0.48 UY	ng/L	0.48	1.9
10/24/2022 10:30	Blank	Pesticides	Disulfoton	0.48 UY	ng/L	0.48	1.9
10/24/2022 10:30	Blank	Pesticides	Iprodione	0.58 UY	ng/L	0.58	2.3
10/24/2022 10:30	Blank	Pesticides	Fonofos	0.19 UY	ng/L	0.19	0.77
10/24/2022 10:30	Blank	Pesticides	Myclobutanil	0.24 UY	ng/L	0.24	0.96
10/24/2022 10:30	Blank	Pesticides	Prometon	0.87 UY	ng/L	0.87	3.5
10/24/2022 10:30	Blank	Pesticides	Loratadine	0.34 UY	ng/L	0.34	1.3
10/24/2022 10:30	Blank	Pesticides	Propargite	1.4 UY	ng/L	1.4	5.8
10/24/2022 10:30	Blank	Pesticides	Pyraflufen Ethyl	0.24 UY	ng/L	0.24	0.96
10/24/2022 10:30	Blank	Pesticides	Pyridaben	0.43 UY	ng/L	0.43	2.2
10/24/2022 10:30	Blank	Pesticides	Ibuprofen	0.20 UY	µg/L	0.20	0.80
10/24/2022 10:30	Blank	Pesticides	Chlorpyrifos Ethyl	0.24 UY	ng/L	0.24	0.96
10/24/2022 10:30	Blank	Pesticides	Cyanazine	3.1 UY	ng/L	3.1	13
10/24/2022 10:30	Blank	Pesticides	Hexazinone	0.48 UY	ng/L	0.48	1.9
10/24/2022 10:30	Blank	Pesticides	Fipronil Desulfinyl	0.12 UY	ng/L	0.12	0.48
10/24/2022 10:30	Blank	Pesticides	Molinate	0.29 UY	ng/L	0.29	1.2
10/24/2022 10:30	Blank	Pesticides	Norflurazon	0.48 UY	ng/L	0.48	1.9
10/24/2022 10:30	Blank	Pesticides	Parathion Ethyl	0.24 UY	ng/L	0.24	0.96
10/24/2022 10:30	Blank	Pesticides	Simazine	0.48 UY	ng/L	0.48	1.9
10/24/2022 10:30	Blank	Pesticides	Sulfentrazone	0.48 UY	ng/L	0.48	1.9
10/24/2022 10:30	Blank	Pesticides	Cyprodinil	0.096 UY	ng/L	0.096	0.48
10/24/2022 10:30	Blank	Pesticides	Caffeine	7.7 UYQ	ng/L	7.7	31
10/24/2022 10:30	Blank	Pesticides	Sucralose	0.019 IY	µg/L	0.010	0.040
10/24/2022 10:30	Blank	Priority Organic Pollutants	4-Nitrophenol	10 UY	µg/L	10	42
10/24/2022 10:30	Blank	Priority Organic Pollutants	Phenanthrene	0.10 UY	µg/L	0.10	0.42

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
10/24/2022 10:30	Blank	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.026 UY	µg/L	0.026	0.10
10/24/2022 10:30	Blank	Priority Organic Pollutants	Dimethyl phthalate	1.1 Y	µg/L	0.21	0.83
10/24/2022 10:30	Blank	Priority Organic Pollutants	Diethyl phthalate	2.1 UY	µg/L	2.1	8.3
10/24/2022 10:30	Blank	Priority Organic Pollutants	Anthracene	0.052 UY	µg/L	0.052	0.21
10/24/2022 10:30	Blank	Priority Organic Pollutants	Pentachlorophenol	0.52 UY	µg/L	0.52	2.1
10/24/2022 10:30	Blank	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.026 UY	µg/L	0.026	0.10
10/24/2022 10:30	Blank	Priority Organic Pollutants	Benzo(a)pyrene	0.026 UY	µg/L	0.026	0.10
10/24/2022 10:30	Blank	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.052 UY	µg/L	0.052	0.21
10/24/2022 10:30	Blank	Priority Organic Pollutants	N-Nitrosodimethylamine	2.1 UY	µg/L	2.1	8.3
10/24/2022 10:30	Blank	Priority Organic Pollutants	Isophorone	0.052 UY	µg/L	0.052	0.21
10/24/2022 10:30	Blank	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.052 UY	µg/L	0.052	0.21
10/24/2022 10:30	Blank	Priority Organic Pollutants	Benzo(a)anthracene	0.026 UY	µg/L	0.026	0.10
10/24/2022 10:30	Blank	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.052 UY	µg/L	0.052	0.21
10/24/2022 10:30	Blank	Priority Organic Pollutants	Butyl benzyl phthalate	1.0 UY	µg/L	1.0	4.2
10/24/2022 10:30	Blank	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.026 UY	µg/L	0.026	0.10
10/24/2022 10:30	Blank	Priority Organic Pollutants	Fluoranthene	0.052 UY	µg/L	0.052	0.21
10/24/2022 10:30	Blank	Priority Organic Pollutants	Fluorene	0.026 UY	µg/L	0.026	0.10
10/24/2022 10:30	Blank	Priority Organic Pollutants	Hexachlorobenzene	0.052 UY	µg/L	0.052	0.21
10/24/2022 10:30	Blank	Priority Organic Pollutants	Hexachlorobutadiene	0.052 UY	µg/L	0.052	0.21
10/24/2022 10:30	Blank	Priority Organic Pollutants	Hexachloroethane	0.052 UY	µg/L	0.052	0.21
10/24/2022 10:30	Blank	Priority Organic Pollutants	2-Chloronaphthalene	0.052 UY	µg/L	0.052	0.21
10/24/2022 10:30	Blank	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.1 UY	µg/L	3.1	12
10/24/2022 10:30	Blank	Priority Organic Pollutants	2,4-Dinitrophenol	10 UY	µg/L	10	42
10/24/2022 10:30	Blank	Priority Organic Pollutants	2,6-Dinitrotoluene	0.052 UY	µg/L	0.052	0.21
10/24/2022 10:30	Blank	Priority Organic Pollutants	Di-n-octyl phthalate	0.052 UY	µg/L	0.052	0.21
10/24/2022 10:30	Blank	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.052 UY	µg/L	0.052	0.21
10/24/2022 10:30	Blank	Priority Organic Pollutants	Nitrobenzene	0.052 UY	µg/L	0.052	0.21
10/24/2022 10:30	Blank	Priority Organic Pollutants	2-Nitrophenol	0.052 UY	µg/L	0.052	0.21
10/24/2022 10:30	Blank	Priority Organic Pollutants	2,4-Dimethylphenol	0.052 UY	µg/L	0.052	0.21
10/24/2022 10:30	Blank	Priority Organic Pollutants	Naphthalene	0.10 UY	µg/L	0.10	0.42
10/24/2022 10:30	Blank	Priority Organic Pollutants	Phenol	0.052 UY	µg/L	0.052	0.21
10/24/2022 10:30	Blank	Priority Organic Pollutants	2,4-Dichlorophenol	0.052 UY	µg/L	0.052	0.21
10/24/2022 10:30	Blank	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.052 UY	µg/L	0.052	0.21
10/24/2022 10:30	Blank	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.052 UY	µg/L	0.052	0.21

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
10/24/2022 10:30	Blank	Priority Organic Pollutants	Acenaphthene	0.026 UY	µg/L	0.026	0.10
10/24/2022 10:30	Blank	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.052 UY	µg/L	0.052	0.21
10/24/2022 10:30	Blank	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	5.2 UY	µg/L	5.2	21
10/24/2022 10:30	Blank	Priority Organic Pollutants	Chrysene	0.026 UY	µg/L	0.026	0.10
10/24/2022 10:30	Blank	Priority Organic Pollutants	Di-n-butyl phthalate	2.1 UY	µg/L	2.1	8.3
10/24/2022 10:30	Blank	Priority Organic Pollutants	Pyrene	0.10 UY	µg/L	0.10	0.42
10/24/2022 10:30	Blank	Priority Organic Pollutants	2-Chlorophenol	0.052 UY	µg/L	0.052	0.21
10/24/2022 10:30	Blank	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.052 UY	µg/L	0.052	0.21
10/24/2022 10:30	Blank	Priority Organic Pollutants	Acenaphthylene	0.026 UY	µg/L	0.026	0.10
10/24/2022 10:30	Blank	Priority Organic Pollutants	Benzidine	10 UY	µg/L	10	42
10/24/2022 10:30	Blank	Priority Organic Pollutants	Benzo(b)fluoranthene	0.026 UY	µg/L	0.026	0.10
10/24/2022 10:30	Blank	Priority Organic Pollutants	2,4-Dinitrotoluene	0.052 UY	µg/L	0.052	0.21
10/24/2022 10:30	Blank	Priority Organic Pollutants	3,3'-Dichlorobenzidine	10 UY	µg/L	10	42
10/24/2022 10:30	Blank	Priority Organic Pollutants	Benzo(k)fluoranthene	0.026 UY	µg/L	0.026	0.10
10/24/2022 10:30	Blank	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.052 UY	µg/L	0.052	0.21
10/24/2022 10:30	Blank	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.052 UY	µg/L	0.052	0.21