Effluent Quality Assessment of Titusville Blue Heron WRF Brevard County NPDES # FL0103349 Sampled June 24, 2024

Division of Environmental Assessment and Restoration
Florida Department of Environmental Protection
October 2024

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Summary of Results

The effluent dissolved oxygen was below the minimum Class III Water Quality Criterion for Fresh Waters for the region. Algal growth potential (AGP) and nutrient results do not suggest a potential for nutrient enrichment of the receiving waters. There were five organic constituents detected in the effluent grab sample.

Facility Overview

The Titusville Blue Heron WRF 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. A consent order was executed on August 27, 2021 and closed on February 23, 2022 for an unauthorized discharge of 48,000 and 60,000 gallons of untreated wastewater on April 27, 2021; this has been corrected. The effluent is continuously discharged into the Addison Canal and Bird Lake Ditches (a tributary of the St. Johns River), a Class III Fresh Water [waterbody identification (WBID) 3029] (Figure 1).

The Addison Canal and Bird Lake Ditches fall within the Peninsular Nutrient Watershed Region for Numeric Nutrient Criteria (NNC). For this region, the NNC, expressed as annual geometric means, are 0.12 mg/L total phosphorus and 1.54 mg/L total nitrogen (Paragraph 62-302.531(2)(c), F.A.C.). The Addison Canal and Bird Lake Ditches fall 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)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 grab samples were collected from monitoring site location WEP-1, for outfall D-001 on June 24, 2024. The permit requires 24-hour flow proportioned composite samples for some parameters; composite samples were not collected. All samples collected were grab samples, and some parameters were analyzed from two separate grab samples. In these instances, only one value is displayed in the tables; all values can be found in Appendix D.

Samples were collected by Phil Kane, Robert Hill, and Kevin Kacperowski (Central District). Analyses were performed by Eurofins Environmental Testing Laboratories in Orlando 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.

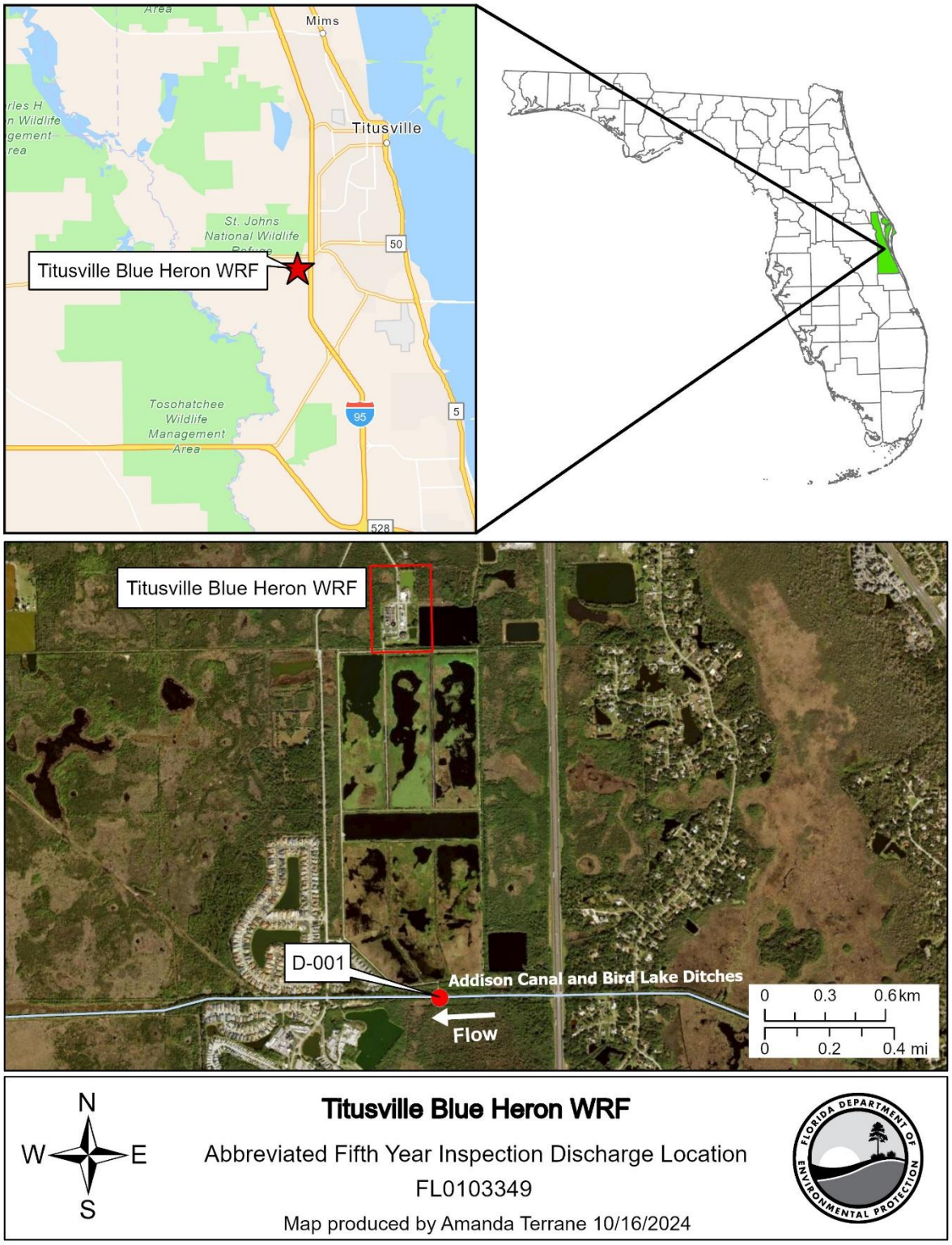


Figure 1. Map of Facility and Discharge Location

Results

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

- The measured dissolved oxygen was below the minimum Class III Water Quality Criterion for Fresh Waters (Subparagraph 62-302.533(1)(a)2., F.A.C.).

Analytical Water Chemistry (See Table 2 and Appendix D)

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

- For comparative purposes only, the effluent grab single sample value for total nitrogen was greater than the Numeric Nutrient Criteria (NNC) annual geometric mean value for the region.

- Total phosphorus and chloride were detected in the equipment blank.

Microbiology (See Table 2 and Appendix B)

- Fecal coliforms were detected in the effluent grab sample. There is no associated Class III Water Quality Criterion or effluent permit limit for this analyte.

Metals (See Table 3 and Appendix D)

- 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-phosphorus co-limited (Miller et al. 1978).

- The effluent grab sample AGP result of 1.31 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 sample was Q qualified for being held beyond normal holding time.

- 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 7 and Appendix D)

- Atrazine (herbicide), fipronil desulfinyl (insecticide), fipronil sulfide (insecticide), fipronil sulfone (insecticide), and phenytoin (anti-seizure pharmaceutical) were detected in the effluent grab sample.

- 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 Fresh Waters, and field parameters

Parameter	Units	Class III Criteria	Effluent Permit Limits	Effluent WEP-1
Temperature	C	-	Report	26.9
pH	SU	6.0 – 8.5	6.0 – 8.5	7.0
Specific Conductance	µmhos/cm	≤ 1,275	Report	756
Salinity	ppt	-	-	0.4 c
Dissolved Oxygen	mg/L	-	Report	2.4
Dissolved Oxygen	% saturation	≥ 38	-	29.6 e

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
c - Value is calculated
e - Value exceeds the Class III Water Quality Criteria or permit limits

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 Grab
Ortho-phosphate	mg P/L	-	Report	0.061
Total Phosphorus[1]	mg P/L	≤ 0.12 g	≤ 0.32 sp	0.086
Total Ammonia Nitrogen	mg N/L	≤ 3.07 sc	Report	0.50
Un-ionized Ammonia (calc salinity)	mg N/L	-	-	< 0.02 c
Nitrate and Nitrite	mg N/L	-	Report	0.004 I
Total Kjeldahl Nitrogen	mg N/L	-	Report	1.6
Organic Nitrogen	mg N/L	-	-	1.1 c
Total Nitrogen	mg N/L	≤ 1.54 g	≤ 3.2 sp	1.6 c
Total Organic Carbon	mg C/L	-	-	16
Chlorophyll *a* - Corrected	µg/L	-	Report	12
Phaeophytin	µg/L	-	-	1.0 U
CBOD, 5 day, N - inhibited	mg/L	-	≤ 6.0 sp	3.4
Total Suspended Solids	mg/L	-	≤ 6.0 sp	2 I
Turbidity	NTU	≤ 29 t	-	6.8
Color (true)	PCU	-	Report	65
Alkalinity	mg CaCO3/L	≥ 20	Report	114
Chloride[1]	mg Cl/L	-	Report	160
Fluoride	mg F/L	≤ 10.0	-	0.46
Sulfate	mg SO4/L	-	Report	14
Fecal Coliforms	cfu/100 mL	-	Report	65 AQ

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.
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
Q - Sample held beyond normal holding time
U - Material analyzed for but not detected; value reported is the method detection limit
1 - Analyte detected in the equipment blank

Table 3. Analytical metals data

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

Analyte	Units	Effluent Grab Class III Criteria	Effluent Permit Limits	Effluent Grab
Hardness	mg CaCO3/L	-	-	120 c
Aluminum	µg/L	-	-	7.8 I
Arsenic	µg/L	≤ 50	-	0.34
Cadmium	µg/L	≤ 0.311 b	-	0.020 U
Calcium	mg/L	-	-	37.6
Chromium, Total [2]	µg/L	≤ 100 b	-	0.40 U
Copper	µg/L	≤ 10.9 b	-	0.40 U
Iron	µg/L	≤ 1,000	-	38 I
Lead	µg/L	≤ 4.03 b	-	0.20 U
Magnesium	mg/L	-	-	6.45
Nickel	µg/L	≤ 61.1 b	-	0.50 U
Selenium	µg/L	≤ 5.0	-	0.20 U
Silver	µg/L	≤ 0.07	-	0.010 U
Sodium	mg/L	-	-	103
Zinc	µg/L	≤ 140 b	-	5.0 U

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
b - Value is calculated based on hardness
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
2 - 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	*Pseudokirchneriella subcapitata*	1.31 AQ	20 ± 4	26 ± 5.2	60 ± 10	37 ± 7.4	8	20

A - Value reported is the mean of two or more determinations
Q - Sample held beyond normal holding time

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
Atrazine	ng/L	-	-	0.37 I
Fipronil Desulfinyl	ng/L	-	-	0.27 I
Fipronil Sulfide	ng/L	-	-	0.13 I
Fipronil Sulfone	ng/L	-	-	0.17 I
Phenytoin	ng/L	-	-	17 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: Phil Kane and David Smicherko	Contact Number: 407-897-4156
Facility Name (as it appears on permit): Titusville Blue Heron WRF	Former Names: N/A
NPDES Permit Number: FL0103349	Permit Expiration Date 1/5/2025
Physical Address: 4800 Deep Marsh Road Titusville, FL 32780	
District: Central	County: Brevard
Function of Facility: Domestic Wastewater Treatment Facility	
Facility Type: Domestic Wastewater	Permitted Capacity (MGD): 4.0 MGD
Mean Flow for previous 12 months for all EXTERNAL outfalls listed in permit (list date range including months): D-001 outfall flow: 1.762 million gallons per day (MGD) annual average daily flow (AADF), as reported on the April 2024 DMR (May 2023 through April 2024 reporting period).	
If applicable, Mean Flow for previous 12 months for REUSE outfall(s) (list date range including months): R-001 public access reuse system: 0.665 MGD AADF, as reported on the April 2024 DMR (May 2023 through April 2024 reporting period). R-002 Titusville Blue Heron Wetlands System 2.945 MGD AADF, as reported on the April 2024 DMR (May 2023 through April 2024 reporting period) R-003 Combined from both WWTFs Systems 3.309 MGD AADF, as reported on the April 2024 DMR (May 2023 through April 2024 reporting period)	
Description of type of Discharge: X Continuous ☐Intermittent ☐ Seasonal ☐ Rainfall Dependent	

☐ Other, please specify:

Description of Sampling Location(s) - actual permit designation of permitted sampling point(s):

I.A.2. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.A.1. and as described below:

Monitoring Site Number	Description of Monitoring Site
FLW-4	Flow meter from the wetlands to the Addison Canal
WEP-1	Sampling point at the wetlands outfall to the Addison Canal.

Description of Permitted Outfall(s): The D-001 Outfall An existing 4.68 MGD annual average daily flow discharge from the created wetland system (R-003) to the Addison Canal and Bird Lake Ditches (a tributary of the St. Johns River), Class III fresh waters, (WBID# 3029) which is approximately 2 feet in length and discharges at a depth of approximately 2 feet. The point of discharge is located approximately at latitude 28°31' 40" N, longitude 80°51' 28" W. The Great Outdoors Community has an agreement with the City of Titusville allowing water withdrawal from Cell #4 of the wetland to augment their irrigation system (limited to 0.4 MGD AADF by their Consumptive Use Permit). The R-001 Outfall An existing 3.57 MGD annual average daily flow permitted capacity slow-rate public access system. R-001 is a reuse system which consists of a 2.0 million gallon storage tank, reclaimed water transmission/distribution system for irrigation of golf courses, cemeteries, park and playgrounds, road medians and landscaped areas within the Reuse Service Area as shown in the attached map, to the major users identified in the Titusville Osprey WRF permit. Both of the Titusville WRFs, Osprey and Blue Heron, supply reclaimed water to the common service area.

Land Application R-002: An existing 4.00 MGD annual average daily flow permitted capacity slow-rate restricted public access (except subsurface) system. R-002 is a reuse system which consists of flows to a convergence box where flows from Blue Heron and Osprey plants are combined and monitored before discharge to the wetlands having a capacity of 4.0 MGD located approximately at latitude 28°32' 34" N, longitude 80°52' 0" W.

Land Application R-003: An existing 4.68 MGD annual average daily flow permitted capacity slow-rate restricted public access (except subsurface) system. R-003 is a reuse system which consists of flows to the Blue Heron created wetlands comprising 264 acres (292 acres including berms, etc.) and consisting of seven (7) cells. The wetland treatment/reuse system receives reclaimed water from the 4.0 mgd Blue Heron WRF and the wet weather flow from the 2.75 mgd Osprey WRF for further treatment prior to discharge to adjacent surface waters. Total cattail coverage in this wetlands systems is limited to an annual average of forty five (45) percent. The system has a capacity of 4.68 MGD located approximately at latitude 28°32' 34" N, longitude 80°52' 0" W.

This permit includes allowing recycling of water from Wetland Cell 4 Pump Station back to the divergence box (downstream of the R-003 sampling point) for redistribution to the head of the

wetlands for additional flexibility. The point of discharge is located approximately at latitude 29°6' 11" N, longitude 81°7' 34" W.
Description of Treatment Process (if multiple discharge points, include a detailed map or diagram of facility): An existing 4.0 million gallon per day (MGD) annual average daily flow (AADF) permitted capacity advanced wastewater treatment (AWT) facility consisting of influent screening, grit removal, biological nutrient removal (5 stage anaerobic anoxic/aerobic process), chemical feed facilities, clarification, tertiary filtration, disinfection by chlorination, effluent flow diversion capability from the Titusville Osprey (2.75 MGD AADF) water reclamation facility, residuals thickening and autothermal thermophilic aerobic digestion to achieve further reduction of pathogens.

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)										
D-001			Effluent Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow (Flow to D-001)	MGD	Max	4.68	6.75	-	-	Continuous	Recording Flow Meter with Totalizer	FLW-4	See I.**Error! Reference source not found.**.3
BOD, Carbonaceous 5 day, 20C	mg/L	Max	3.0-	3.75	4.5	6.0	Weekly	24-hr FPC	WEP-1	See I.A11.
Solids, Total Suspended	mg/L	Max	3.0	3.75	4.5	6.0	Weekly	24-hr FPC	WEP-1	See I.A.11.
Coliform, Fecal	#/100mL	Max	Report			Single Sample	Weekly	Grab	WEP-1	
pH	s.u.	Min Max	6.0 8.5	Single Sample Single Sample	-		Daily:24 hours	Grab	WEP-1	

Chloride, (as Cl)	mg/L	Max	Report	Monthly Average	-		Weekly	24-hr FPC	WEP-1	
Oxygen, Dissolved (DO)	mg/L	Min	Report	Monthly Average			Weekly	Grab	WEP-1	
Oxygen, Dissolved (DO) (48 hour Dissolved Oxygen)	mg/L	Min	Report			Single Sample	Monthly	Grab	WEP-1	
Color	PCU	Max	Report	Monthly Average	-		Weekly	24-hr FPC	WEP-1	
Phosphorus, Total (as P)	mg/L	Min	Max Max Max Max	0.16 0.20 0.24 0.32	Annual Average Monthly Average Weekly Average Single Sample		Weekly	24-hr FPC	WEP-1	
Phosphate, Ortho (as P)	mg/L	Report	-	-	Monthly Average	100	Weekly	24-hr FPC	WEP-1	

Nitrogen, Total	mg/L	Max Max Max Max	- 	1.6 2.0 2.4 3.2	Annual Average Monthly Average Weekly Average Single Sample		Weekly	24-hr FPC	WEP-1	
Nitrogen, Kjeldahl, Total (as N)	mg/L	Max	Report	Monthly Average			Weekly	24-hr FPC	WEP-1	
Nitrite plus Nitrate, Total 1 det. (as N)	mg/L	Max	Report	Monthly Average			Weekly	24-hr FPC	WEP-1	
Nitrogen, Ammonia, Total (as N)(TAN) (Effluent)	mg/L	Max	Report Report	Monthly Average Single Sample			Weekly	24-hr FPC	WEP-1	See I.A.5.
Nitrogen, Ammonia, Total (as N)(TAN) (Limits)	Mg/L	Max	Report Report	Monthly Average Single Sample			Weekly	Calculated	WEP-1	See I.A.5.
Nitrogen, Ammonia, Total (as N)(TAN) (Compliance)	mg/L	Max	0.0 0.0	Monthly Average Single Sample			Weekly	Calculated	WEP-1	See A.1.5.

Alkalinity, Total (as CaCO3)	mg/L	Max	Report	Monthly Average	-		Weekly	24-hr FPC	WEP-1	
Temperature (C), Water	Deg C	Max	Report	Monthly Average	-		Weekly	Grab	WEP-1	
Temperature (C), Water (48-hour temperature)	Deg C	Max	Report	Single sample	-		Monthly	Grab	WEP-1	
Specific Conductance	umhos/cm	Max	Report	Monthly Average	-		Weekly	Grab	WEP-1	
Sulfate, Total	mg/L	Max	Report		-	Single Sample	Quarterly	24-hr FPC	WEP-1	
Chlorophyll a	mg/L	Max	Report		-	Single Sample	Quarterly	24-hr FPC	WEP-1	

PART I: Continued	
Receiving Waters: Addison Canal and Bird Lake Ditches to St. John's River	Classification (indicate whether fresh or marine): Class III fresh waters, (WBID# 3029)
Administrative or Consent Orders (date executed, specific requirements, interim limit dates-if applicable, etc.): A consent order (CO) was executed on August 27, 2021. An unauthorized April 27, 2021, discharge of 48,000 and 60,000 gallons of untreated wastewater that have been corrected and the CO closed on February 23, 2022.	
Facility Mixing Zone Details (if applicable): D-001 ONLY – see information below: N/A	
List Permit Violations (DMR data) and plant upsets that occurred at the plant within the last year:	

Date	Parameter	Result mg/L	Limit mg/L
04/30/2024	Coliform, Fecal, % less than detection R-001 EFA-Minimum Total Monthly	72.2 %	75 %
02/29/2024	Solids, Total Suspended D-001 WEP-1 Ann. Avg.	3.1	3
02/29/2024	Solids, Total Suspended D-001 WEP-1 Weekly Avg.	12	4.5
02/29/2024	Solids, Total Suspended D-001 WEP-1 Max	12	6
02/29/2024	Coliform, Fecal, % less than detection R-001 EFA-1 Min. Tot. Monthly	70.6 %	75 %
01/31/2024	Phosphorus, Total (as P) D-001 WEP-1 Weekly Avg.	0.447	0.24
01/31/2024	Phosphorus, Total (as P) D-001 WEP-1 Max.	0.447	0.32

01/31/2024	Phosphorus, Total (as P) D-001 WEP-1 Monthly Avg.	0.306	0.2
12/31/2023	Solids, Total Suspended D-001 WEP-1 Ann. Avg.	3.37	3
12/31/2023	Phosphorus, Total (as P) D-001 WEP-1 Weekly Avg.	0.325	0.24
12/31/2023	Phosphorus, Total (as P) D-001 WEP-1 Max.	0.325	0.32
12/31/2023	Phosphorus, Total (as P) D-001 WEP-1 Monthly Avg.	0.273	0.2
11/30/2023	Solids, Total Suspended D-001 WEP-1 Ann. Avg.	4.02	3
10/31/2023	Solids, Total Suspended D-001 WEP-1 Ann. Avg.	4.02	3
10/31/2023	Solids, Total Suspended D-001 WEP-1 Weekly Avg.	32.8	4.5
10/31/2023	Solids, Total Suspended D-001 WEP-1 Monthly Avg.	7.66	3.75
10/31/2023	Solids, Total Suspended D-001 WEP-1 Max.	32.8	6
10/31/2023	Phosphorus, Total (as P) D-001 WEP-1 Weekly Avg.	0.27	0.24
08/31/2023	$CBOD_5$, D-001 WEP-1 Ann. Avg.	3.58	3
07/31/2023	$CBOD_5$, D-001 WEP-1 Ann. Avg.	4.43	3
07/31/2023	$CBOD_5$, D-001 WEP-1 Monthly Avg.	5.47	3.75
07/31/2023	$CBOD_5$, D-001 WEP-1 Weekly Avg.	9.93	4.5
07/31/2023	$CBOD_5$, D-001 WEP-1 Max.	9.93	6

06/30/2023	$CBOD_5$, D-001 WEP-1 Ann. Avg.	3.92	3
05/31/2023	$CBOD_5$, D-001 WEP-1 Ann. Avg.	3.92	3

Describe previous FYI and WQBEL study: None were noted in the last 5 years.

Describe previous or current Enforcement Actions (including WLs):

A consent order (CO) was executed on August 27, 2021. An unauthorized April 27, 2021 discharge of 48,000 and 60,000 gallons of untreated wastewater that have been corrected and the CO closed on

February 23, 2022.

Describe any violations or problems noted in previous inspection: DMR reporting errors, sampling and lab reporting errors, TSS, TN, CBOD5, and Fecal Coliforms exceedances for D001 and R-001.

Discuss whether DMR trends within the previous five years are improving or declining: In the past 5 years: flow to D001 has increased. TN loading to D001 has remained consistent and TP has slightly increased to D001. TSS and CBOD have slightly increased at D001.

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

PART II: Sampling Event Information	
Date(s) sample collected: 6/24/2024	Sampler(s): Kane,
Temperature (Deg C):	pH (SU):
Dissolved Oxygen (mg/L):	Conductivity (umhos/cm):
Total Residual Chlorine (mg/L):	Total Residual Chlorine - after Disinfection (mg/L):
Method of Chlorination	Method of De-chlorination:
Flow During Sample Collection for each outfall(MGD):	
Mean Flow for each outfall for previous 12 months based on sampling date (If samples are taken on more than one day, indicate Mean Flow for each day): In report	
Describe Discharge during Sampling Event: X Continuous ☐ Intermittent ☐ Seasonal ☐ Rainfall Dependent X☐ Other, please specify: Not discharging	
Describe any conditions, difficulties or abnormal events that occurred during the sample collection and any other additional comments here: Parameter information is on field sheet. Public access reuse system in use at time of sampling.	

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.

- **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-2024-06-10-42

FYI3 Titusville Blue Heron WRF (FL0103349)

Customer: CEN-DIST

Project ID: FYI3

Florida Department of Environmental Protection

Central Laboratory Submittal Form

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last revised Jan 25, 2018

Requester: Benjamin Nomann

Field Report Prepared By: Kevin Kacperowski

Collected By: KANE, HILL, KACPEROWSKI

Sampling Agency: FDEP Central

Location FL0103349 Titusville WRF 4800 Deep Marsh Rd Titusville, FL 32780	☐ Comp ☑ Grab	Collection (comp begin or grab) Date 6/24/24 Time 8:30am Eastern Central	Composite end Date 6/24 Time	Bottle Group(s) (See pg 2)	Field ID TITUS	Matrix (type, e.g., Salt, Fresh, etc) Effluent	Diss. Oxygen 2.38 ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	WIN/STORET #	Temp (C) 26.9	pH 2	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm) 756	A	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments
Location FL0103349 Titusville WRF 4800 Deep Marsh Rd Titusville, FL 32780	☑ Comp ☐ Grab	Collection (comp begin or grab) Date 6/24/24 Time 8:15am Eastern Central	Composite end Date 6/24 Time	Bottle Group(s)	Field ID TITUS	Matrix (type, e.g., Salt, Fresh, etc) Effluent	Diss. Oxygen 2.36 ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	WIN/STORET #	Temp (C) 26.9	pH 2	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm) 756	B	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments
Location FL0103349 Titusville WRF 4800 Deep Marsh Rd Titusville, FL 32780	☐ Comp ☑ Grab	Collection (comp begin or grab) Date 6/24/24 Time 9:07am Eastern Central	Composite end Date 6/24 Time	Bottle Group(s)	Field ID TITUS	Matrix (type, e.g., Salt, Fresh, etc) Blank	Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	WIN/STORET #	Temp (C)	pH 2	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)	C	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments
Location FL0103349 Titusville WRF 4800 Deep Marsh Rd Titusville, FL 32780	☐ Comp ☑ Grab	Collection (comp begin or grab) Date 6/24/24 Time 9:20am Eastern Central	Composite end Date 6/24 Time	Bottle Group(s)	Field ID TITUS	Matrix (type, e.g., Salt, Fresh, etc) Blank	Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	WIN/STORET #	Temp (C)	pH 2	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)	D	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
				Chm P	6-25-24 / 8:55

Request Number: RQ-2024-06-10-42

FYI3 Titusville Blue Heron WRF (FL0103349)

Customer: CEN-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

Field Report Prepared By: HILL; ROBERT

Collected By: KANE; HILL; KALPEROWSKI

Sampling Agency: FDEP CENTRAL

Location: FL0103349 TITUSVILLE WRF 4800 DEEP MARSH RD TITUSVILLE, FL 32780	☑ Comp ☐ Grab	Collection (comp begin or grab) Date 6/24/2024 Time 8:46am	Eastern Central	Composite end Date 6/24/2024 Time					Bottle Group(s) (See pg 2): B
Field ID: TITUS	Matrix (type, e.g., Salt, Fresh, etc): EFFLUENT			Diss. Oxygen: 2.36	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)			
WIN/STORET #	Temp (C): 26.9	pH: 6.98		Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm): 758			
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						
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

670-42292 Field Sheet

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7/2/2024

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Appendix D. Chemical Analysis of Effluent

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
6/24/2024 8:15	Effluent Grab	Chlorophyll/Grain Size/BOD	Phaeophytin-a	1.0 U	µg/L	1.0	3.0
6/24/2024 8:15	Effluent Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	8.6	µg/L	0.93	2.8
6/24/2024 8:15	Effluent Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	9.0	µg/L	0.68	2.0
6/24/2024 8:15	Effluent Grab	Overflow	Carbonaceous Biochemical Oxygen Demand	3.4	mg/L	2.0	2.0
6/24/2024 8:15	Effluent Grab	Nutrients	NO2NO3-N	0.004 I	mg N/L	0.0040	0.010
6/24/2024 8:15	Effluent Grab	Nutrients	O-Phosphate-P	0.053	mg P/L	0.0040	0.010
6/24/2024 8:15	Effluent Grab	Nutrients	Sulfate	16	mg SO4/L	0.40	1.0
6/24/2024 8:15	Effluent Grab	Nutrients	Ammonia-N	0.43	mg N/L	0.0080	0.020
6/24/2024 8:15	Effluent Grab	Nutrients	Chloride	160	mg Cl/L	0.40	1.0
6/24/2024 8:15	Effluent Grab	Nutrients	TSS	3 IA	mg/L	2.0	10
6/24/2024 8:15	Effluent Grab	Nutrients	Total-P	0.081	mg P/L	0.010	0.050
6/24/2024 8:15	Effluent Grab	Nutrients	Kjeldahl Nitrogen	1.6	mg N/L	0.080	0.20
6/24/2024 8:15	Effluent Grab	Nutrients	Total Alkalinity	107	mg CaCO3/L	0.65	2.5
6/24/2024 8:15	Effluent Grab	Nutrients	Color (true)	67	PCU	2.5	6.0
6/24/2024 8:15	Effluent Grab	Nutrients	Dissolved Oxygen mg/L	2.36	mg/L		
6/24/2024 8:15	Effluent Grab	Nutrients	Specific Conductance	756	µmhos/cm		
6/24/2024 8:15	Effluent Grab	Nutrients	pH	2	SU		
6/24/2024 8:15	Effluent Grab	Nutrients	Temperature	26.9	C		
6/24/2024 8:30	Effluent Grab	AGP/LN	Algal Growth Potential	1.31 AQ	mg DryWt/L	0.300	0.900
6/24/2024 8:30	Effluent Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	12	µg/L	0.93	2.8
6/24/2024 8:30	Effluent Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	12	µg/L	0.68	2.0
6/24/2024 8:30	Effluent Grab	Chlorophyll/Grain Size/BOD	Phaeophytin-a	1.0 U	µg/L	1.0	3.0
6/24/2024 8:30	Effluent Grab	Microbiology	Fecal Coliforms-Membrane Filter	65 AQ	cfu/100 mL	2	2
6/24/2024 8:30	Effluent Grab	Metals	Cadmium	0.020 U	µg/L	0.020	0.080
6/24/2024 8:30	Effluent Grab	Metals	Chromium	0.40 U	µg/L	0.40	1.6
6/24/2024 8:30	Effluent Grab	Metals	Sodium	103	mg/L	0.50	2.0
6/24/2024 8:30	Effluent Grab	Metals	Magnesium	6.45	mg/L	0.040	0.16
6/24/2024 8:30	Effluent Grab	Metals	Iron	38 I	µg/L	30	120
6/24/2024 8:30	Effluent Grab	Metals	Calcium	37.6	mg/L	0.075	0.30
6/24/2024 8:30	Effluent Grab	Metals	Copper	0.40 U	µg/L	0.40	0.80
6/24/2024 8:30	Effluent Grab	Metals	Aluminum	7.8 I	µg/L	5.0	20

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
6/24/2024 8:30	Effluent Grab	Metals	Lead	0.20 U	µg/L	0.20	0.40
6/24/2024 8:30	Effluent Grab	Metals	Nickel	0.50 U	µg/L	0.50	2.0
6/24/2024 8:30	Effluent Grab	Metals	Silver	0.010 U	µg/L	0.010	0.040
6/24/2024 8:30	Effluent Grab	Metals	Zinc	5.0 U	µg/L	5.0	20
6/24/2024 8:30	Effluent Grab	Metals	Arsenic	0.34	µg/L	0.050	0.20
6/24/2024 8:30	Effluent Grab	Metals	Selenium	0.20 U	µg/L	0.20	0.80
6/24/2024 8:30	Effluent Grab	Nutrients	O-Phosphate-P	0.061	mg P/L	0.0040	0.010
6/24/2024 8:30	Effluent Grab	Nutrients	TSS	2 I	mg/L	2.0	10
6/24/2024 8:30	Effluent Grab	Nutrients	Color (true)	65	PCU	2.5	6.0
6/24/2024 8:30	Effluent Grab	Nutrients	Fluoride	0.46	mg F/L	0.025	0.10
6/24/2024 8:30	Effluent Grab	Nutrients	Sulfate	14	mg SO4/L	0.40	1.0
6/24/2024 8:30	Effluent Grab	Nutrients	NO2NO3-N	0.004 I	mg N/L	0.0040	0.010
6/24/2024 8:30	Effluent Grab	Nutrients	Ammonia-N	0.50	mg N/L	0.040	0.10
6/24/2024 8:30	Effluent Grab	Nutrients	Total Alkalinity	114	mg CaCO3/L	0.65	2.5
6/24/2024 8:30	Effluent Grab	Nutrients	Chloride	160	mg Cl/L	0.40	1.0
6/24/2024 8:30	Effluent Grab	Nutrients	Turbidity	6.8	NTU	0.10	1.0
6/24/2024 8:30	Effluent Grab	Nutrients	Total-P	0.086	mg P/L	0.010	0.050
6/24/2024 8:30	Effluent Grab	Nutrients	Kjeldahl Nitrogen	1.6	mg N/L	0.080	0.20
6/24/2024 8:30	Effluent Grab	Nutrients	Organic Carbon	16	mg C/L	0.50	1.0
6/24/2024 8:30	Effluent Grab	Pesticides	Acetochlor	0.20 U	ng/L	0.20	1.0
6/24/2024 8:30	Effluent Grab	Pesticides	Chlorfenapyr	0.31 U	ng/L	0.31	1.5
6/24/2024 8:30	Effluent Grab	Pesticides	Difenoconazole	0.61 U	ng/L	0.61	3.1
6/24/2024 8:30	Effluent Grab	Pesticides	Dimethomorph	0.31 U	ng/L	0.31	1.5
6/24/2024 8:30	Effluent Grab	Pesticides	Norflurazon	1.0 U	ng/L	1.0	5.1
6/24/2024 8:30	Effluent Grab	Pesticides	Ametryn	1.1 U	ng/L	1.1	5.6
6/24/2024 8:30	Effluent Grab	Pesticides	Atrazine Desethyl	1.3 U	ng/L	1.3	6.6
6/24/2024 8:30	Effluent Grab	Pesticides	Butylate	0.46 U	ng/L	0.46	2.3
6/24/2024 8:30	Effluent Grab	Pesticides	Carfentrazone Ethyl	0.15 U	ng/L	0.15	0.77
6/24/2024 8:30	Effluent Grab	Pesticides	Chlorpyrifos Methyl	0.10 U	ng/L	0.10	0.51
6/24/2024 8:30	Effluent Grab	Pesticides	Demeton	3.6 U	ng/L	3.6	18
6/24/2024 8:30	Effluent Grab	Pesticides	Iprodione	0.51 U	ng/L	0.51	2.6
6/24/2024 8:30	Effluent Grab	Pesticides	Malathion	0.36 U	ng/L	0.36	1.8
6/24/2024 8:30	Effluent Grab	Pesticides	Oxadiazon	0.36 U	ng/L	0.36	1.8
6/24/2024 8:30	Effluent Grab	Pesticides	Pendimethalin	1.7 U	ng/L	1.7	8.7

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
6/24/2024 8:30	Effluent Grab	Pesticides	Propanil	0.10 U	ng/L	0.10	0.51
6/24/2024 8:30	Effluent Grab	Pesticides	Simazine	0.26 U	ng/L	0.26	1.3
6/24/2024 8:30	Effluent Grab	Pesticides	Cyprodinil	0.20 U	ng/L	0.20	1.0
6/24/2024 8:30	Effluent Grab	Pesticides	EPTC	0.51 U	ng/L	0.51	2.6
6/24/2024 8:30	Effluent Grab	Pesticides	Fipronil Sulfone	0.17 I	ng/L	0.10	0.51
6/24/2024 8:30	Effluent Grab	Pesticides	Flumioxazin	3.1 U	ng/L	3.1	15
6/24/2024 8:30	Effluent Grab	Pesticides	Fonofos	0.15 U	ng/L	0.15	0.77
6/24/2024 8:30	Effluent Grab	Pesticides	Naled	2.6 U	ng/L	2.6	13
6/24/2024 8:30	Effluent Grab	Pesticides	Parathion Methyl	0.20 U	ng/L	0.20	1.0
6/24/2024 8:30	Effluent Grab	Pesticides	Pyraflufen Ethyl	0.31 U	ng/L	0.31	1.5
6/24/2024 8:30	Effluent Grab	Pesticides	Cyanazine	5.1 U	ng/L	5.1	26
6/24/2024 8:30	Effluent Grab	Pesticides	Fludioxonil	0.10 U	ng/L	0.10	0.51
6/24/2024 8:30	Effluent Grab	Pesticides	Hexazinone	0.51 U	ng/L	0.51	2.6
6/24/2024 8:30	Effluent Grab	Pesticides	Imazalil	0.66 U	ng/L	0.66	3.3
6/24/2024 8:30	Effluent Grab	Pesticides	Metalaxyl	0.51 U	ng/L	0.51	2.6
6/24/2024 8:30	Effluent Grab	Pesticides	Parathion Ethyl	0.15 U	ng/L	0.15	0.77
6/24/2024 8:30	Effluent Grab	Pesticides	Phorate	0.26 U	ng/L	0.26	1.3
6/24/2024 8:30	Effluent Grab	Pesticides	Pyridaben	1.4 U	ng/L	1.4	7.2
6/24/2024 8:30	Effluent Grab	Pesticides	Stirophos	0.41 U	ng/L	0.41	3.3
6/24/2024 8:30	Effluent Grab	Pesticides	Tebuconazole	1.4 U	ng/L	1.4	7.2
6/24/2024 8:30	Effluent Grab	Pesticides	Terbuthylazine	0.20 U	ng/L	0.20	1.0
6/24/2024 8:30	Effluent Grab	Pesticides	Ibuprofen	0.080 U	µg/L	0.080	0.32
6/24/2024 8:30	Effluent Grab	Pesticides	Bromacil	0.61 U	ng/L	0.61	3.1
6/24/2024 8:30	Effluent Grab	Pesticides	Disulfoton	0.61 U	ng/L	0.61	3.1
6/24/2024 8:30	Effluent Grab	Pesticides	Fenamiphos	0.46 U	ng/L	0.46	2.3
6/24/2024 8:30	Effluent Grab	Pesticides	Fipronil	0.20 U	ng/L	0.20	1.0
6/24/2024 8:30	Effluent Grab	Pesticides	Fipronil Sulfide	0.13 I	ng/L	0.10	0.51
6/24/2024 8:30	Effluent Grab	Pesticides	Flutolanil	0.10 U	ng/L	0.10	0.51
6/24/2024 8:30	Effluent Grab	Pesticides	Mevinphos	1.0 U	ng/L	1.0	5.1
6/24/2024 8:30	Effluent Grab	Pesticides	Napropamide	0.72 U	ng/L	0.72	3.6
6/24/2024 8:30	Effluent Grab	Pesticides	Oxyfluorfen	0.20 U	ng/L	0.20	1.0
6/24/2024 8:30	Effluent Grab	Pesticides	Phenytoin	17 I	ng/L	5.4	27
6/24/2024 8:30	Effluent Grab	Pesticides	Prometryn	0.36 U	ng/L	0.36	1.8
6/24/2024 8:30	Effluent Grab	Pesticides	Pronamide	0.10 U	ng/L	0.10	0.51

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
6/24/2024 8:30	Effluent Grab	Pesticides	Propargite	0.82 U	ng/L	0.82	4.1
6/24/2024 8:30	Effluent Grab	Pesticides	Propiconazole	0.61 U	ng/L	0.61	3.1
6/24/2024 8:30	Effluent Grab	Pesticides	Terbufos	0.20 U	ng/L	0.20	1.0
6/24/2024 8:30	Effluent Grab	Pesticides	Sucralose	87	µg/L	0.20	0.80
6/24/2024 8:30	Effluent Grab	Pesticides	Caffeine	7.7 U	ng/L	7.7	38
6/24/2024 8:30	Effluent Grab	Pesticides	Ethion	0.31 U	ng/L	0.31	1.5
6/24/2024 8:30	Effluent Grab	Pesticides	Metolachlor	0.77 U	ng/L	0.77	3.8
6/24/2024 8:30	Effluent Grab	Pesticides	Metribuzin	0.41 U	ng/L	0.41	2.0
6/24/2024 8:30	Effluent Grab	Pesticides	Myclobutanil	0.36 U	ng/L	0.36	1.8
6/24/2024 8:30	Effluent Grab	Pesticides	Pyriproxyfen	0.26 U	ng/L	0.26	1.6
6/24/2024 8:30	Effluent Grab	Pesticides	Triadimefon	0.15 U	ng/L	0.15	0.77
6/24/2024 8:30	Effluent Grab	Pesticides	Naproxen	0.0080 U	µg/L	0.0080	0.032
6/24/2024 8:30	Effluent Grab	Pesticides	Alachlor	0.41 UJ	ng/L	0.41	2.0
6/24/2024 8:30	Effluent Grab	Pesticides	Azoxystrobin	0.41 U	ng/L	0.41	2.0
6/24/2024 8:30	Effluent Grab	Pesticides	Carbophenothion	0.51 U	ng/L	0.51	2.6
6/24/2024 8:30	Effluent Grab	Pesticides	Diazinon	0.13 U	ng/L	0.13	0.64
6/24/2024 8:30	Effluent Grab	Pesticides	Dimethenamid	0.10 U	ng/L	0.10	0.51
6/24/2024 8:30	Effluent Grab	Pesticides	Fenbuconazole	0.51 U	ng/L	0.51	2.6
6/24/2024 8:30	Effluent Grab	Pesticides	Fipronil Desulfinyl	0.27 I	ng/L	0.10	0.51
6/24/2024 8:30	Effluent Grab	Pesticides	Fluazifop-P-butyl	0.10 U	ng/L	0.10	0.51
6/24/2024 8:30	Effluent Grab	Pesticides	Fluxapyroxad	0.26 U	ng/L	0.26	1.3
6/24/2024 8:30	Effluent Grab	Pesticides	Prometon	3.1 U	ng/L	3.1	15
6/24/2024 8:30	Effluent Grab	Pesticides	Atrazine	0.37 I	ng/L	0.20	1.0
6/24/2024 8:30	Effluent Grab	Pesticides	Azinphos Methyl	3.1 U	ng/L	3.1	15
6/24/2024 8:30	Effluent Grab	Pesticides	Chlorpyrifos Ethyl	0.31 U	ng/L	0.31	1.5
6/24/2024 8:30	Effluent Grab	Pesticides	Coumaphos	1.1 U	ng/L	1.1	5.6
6/24/2024 8:30	Effluent Grab	Pesticides	Dithiopyr	1.0 U	ng/L	1.0	5.1
6/24/2024 8:30	Effluent Grab	Pesticides	Ethoprop	0.13 U	ng/L	0.13	0.64
6/24/2024 8:30	Effluent Grab	Pesticides	Etridiazole	0.10 U	ng/L	0.10	0.51
6/24/2024 8:30	Effluent Grab	Pesticides	Loratadine	0.31 U	ng/L	0.31	1.5
6/24/2024 8:30	Effluent Grab	Pesticides	Molinate	0.26 U	ng/L	0.26	1.3
6/24/2024 8:30	Effluent Grab	Pesticides	Prodiamine	0.20 U	ng/L	0.20	1.0
6/24/2024 8:30	Effluent Grab	Pesticides	Sulfentrazone	1.4 U	ng/L	1.4	7.2
6/24/2024 8:30	Effluent Grab	Pesticides	Thiobencarb	0.51 U	ng/L	0.51	2.6

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	2,4-Dinitrophenol	0.011 U	µg/L	0.011	0.042
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Acenaphthylene	0.027 U	µg/L	0.027	0.11
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Benzo(a)pyrene	0.027 U	µg/L	0.027	0.11
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.027 U	µg/L	0.027	0.11
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Dimethyl phthalate	0.21 U	µg/L	0.21	0.85
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Naphthalene	0.11 U	µg/L	0.11	0.42
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Pentachlorophenol	0.53 U	µg/L	0.53	2.1
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Phenanthrene	0.11 U	µg/L	0.11	0.42
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.053 U	µg/L	0.053	0.21
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Di-n-butyl phthalate	2.1 U	µg/L	2.1	8.5
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Hexachloroethane	0.053 U	µg/L	0.053	0.21
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.027 U	µg/L	0.027	0.11
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	2,4-Dichlorophenol	0.053 U	µg/L	0.053	0.21
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Anthracene	0.053 U	µg/L	0.053	0.21
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.053 U	µg/L	0.053	0.21
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Butyl benzyl phthalate	1.1 U	µg/L	1.1	4.2
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Isophorone	0.053 U	µg/L	0.053	0.21
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	2,4-Dinitrotoluene	0.053 U	µg/L	0.053	0.21
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.053 U	µg/L	0.053	0.21
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	2,6-Dinitrotoluene	0.053 U	µg/L	0.053	0.21
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	3,3'-Dichlorobenzidine	11 UJ	µg/L	11	42
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Acenaphthene	0.027 U	µg/L	0.027	0.11
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Diethyl phthalate	2.1 U	µg/L	2.1	8.5
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Hexachlorobenzene	0.053 U	µg/L	0.053	0.21
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Phenol	0.053 U	µg/L	0.053	0.21
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	2-Chloronaphthalene	0.053 U	µg/L	0.053	0.21
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.2 U	µg/L	3.2	13
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	2-Nitrophenol	0.053 U	µg/L	0.053	0.21
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	2,4-Dimethylphenol	0.053 U	µg/L	0.053	0.21
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Benzo(a)anthracene	0.027 U	µg/L	0.027	0.11
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Chrysene	0.027 U	µg/L	0.027	0.11
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Di-n-octyl phthalate	0.053 U	µg/L	0.053	0.21
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.053 U	µg/L	0.053	0.21
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	2-Chlorophenol	0.053 U	µg/L	0.053	0.21

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.053 U	µg/L	0.053	0.21
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	4-Nitrophenol	11 U	µg/L	11	42
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Benzo(k)fluoranthene	0.027 U	µg/L	0.027	0.11
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.053 U	µg/L	0.053	0.21
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	N-Nitrosodimethylamine	2.1 U	µg/L	2.1	8.5
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Nitrobenzene	0.053 U	µg/L	0.053	0.21
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Pyrene	0.11 U	µg/L	0.11	0.42
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Benzo(b)fluoranthene	0.027 U	µg/L	0.027	0.11
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.053 U	µg/L	0.053	0.21
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.053 U	µg/L	0.053	0.21
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.053 U	µg/L	0.053	0.21
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.053 U	µg/L	0.053	0.21
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Benzidine	11 U	µg/L	11	42
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.027 U	µg/L	0.027	0.11
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	5.3 U	µg/L	5.3	21
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Fluoranthene	0.053 U	µg/L	0.053	0.21
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Fluorene	0.027 U	µg/L	0.027	0.11
6/24/2024 8:30	Effluent Grab	Priority Organic Pollutants	Hexachlorobutadiene	0.053 U	µg/L	0.053	0.21
6/24/2024 8:30	Effluent Grab	Nutrients	Temperature	26.9	C		
6/24/2024 8:30	Effluent Grab	Nutrients	Specific Conductance	756	µmhos/cm		
6/24/2024 8:30	Effluent Grab	Nutrients	Dissolved Oxygen mg/L	2.36	mg/L		
6/24/2024 8:30	Effluent Grab	Nutrients	pH	2	SU		
6/24/2024 9:07	Blank	Metals	Selenium	0.20 U	µg/L	0.20	0.80
6/24/2024 9:07	Blank	Metals	Sodium	0.50 U	mg/L	0.50	2.0
6/24/2024 9:07	Blank	Metals	Arsenic	0.050 U	µg/L	0.050	0.20
6/24/2024 9:07	Blank	Metals	Cadmium	0.020 U	µg/L	0.020	0.080
6/24/2024 9:07	Blank	Metals	Lead	0.20 U	µg/L	0.20	0.40
6/24/2024 9:07	Blank	Metals	Silver	0.010 U	µg/L	0.010	0.040
6/24/2024 9:07	Blank	Metals	Aluminum	5.0 U	µg/L	5.0	20
6/24/2024 9:07	Blank	Metals	Nickel	0.50 U	µg/L	0.50	2.0
6/24/2024 9:07	Blank	Metals	Copper	0.40 U	µg/L	0.40	0.80
6/24/2024 9:07	Blank	Metals	Iron	30 U	µg/L	30	120
6/24/2024 9:07	Blank	Metals	Chromium	0.40 U	µg/L	0.40	1.6
6/24/2024 9:07	Blank	Metals	Calcium	0.075 U	mg/L	0.075	0.30

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
6/24/2024 9:07	Blank	Metals	Zinc	5.0 U	µg/L	5.0	20
6/24/2024 9:07	Blank	Metals	Magnesium	0.040 U	mg/L	0.040	0.16
6/24/2024 9:07	Blank	Nutrients	Ammonia-N	0.002 U	mg N/L	0.0020	0.0050
6/24/2024 9:07	Blank	Nutrients	Sulfate	0.20 U	mg SO4/L	0.20	0.50
6/24/2024 9:07	Blank	Nutrients	O-Phosphate-P	0.004 U	mg P/L	0.0040	0.010
6/24/2024 9:07	Blank	Nutrients	Fluoride	0.025 U	mg F/L	0.025	0.10
6/24/2024 9:07	Blank	Nutrients	Total Alkalinity	0.65 U	mg CaCO3/L	0.65	2.5
6/24/2024 9:07	Blank	Nutrients	Color (true)	2.5 U	PCU	2.5	6.0
6/24/2024 9:07	Blank	Nutrients	NO2NO3-N	0.004 U	mg N/L	0.0040	0.010
6/24/2024 9:07	Blank	Nutrients	Total-P	0.002 U	mg P/L	0.0020	0.0050
6/24/2024 9:07	Blank	Nutrients	Turbidity	0.10 U	NTU	0.10	1.0
6/24/2024 9:07	Blank	Nutrients	Chloride	0.20 U	mg Cl/L	0.20	0.50
6/24/2024 9:07	Blank	Nutrients	Kjeldahl Nitrogen	0.080 U	mg N/L	0.080	0.20
6/24/2024 9:07	Blank	Nutrients	Organic Carbon	0.50 U	mg C/L	0.50	1.0
6/24/2024 9:07	Blank	Pesticides	Ethion	0.31 U	ng/L	0.31	1.6
6/24/2024 9:07	Blank	Pesticides	Hexazinone	0.52 U	ng/L	0.52	2.6
6/24/2024 9:07	Blank	Pesticides	Metalaxyl	0.52 U	ng/L	0.52	2.6
6/24/2024 9:07	Blank	Pesticides	Naled	2.6 U	ng/L	2.6	13
6/24/2024 9:07	Blank	Pesticides	Atrazine	0.21 U	ng/L	0.21	1.0
6/24/2024 9:07	Blank	Pesticides	Azoxystrobin	0.41 U	ng/L	0.41	2.1
6/24/2024 9:07	Blank	Pesticides	Pyriproxyfen	0.26 U	ng/L	0.26	1.7
6/24/2024 9:07	Blank	Pesticides	Sucralose	0.010 U	µg/L	0.010	0.040
6/24/2024 9:07	Blank	Pesticides	Ibuprofen	0.080 U	µg/L	0.080	0.32
6/24/2024 9:07	Blank	Pesticides	Dimethenamid	0.10 U	ng/L	0.10	0.52
6/24/2024 9:07	Blank	Pesticides	EPTC	0.52 U	ng/L	0.52	2.6
6/24/2024 9:07	Blank	Pesticides	Fenamiphos	0.47 U	ng/L	0.47	2.3
6/24/2024 9:07	Blank	Pesticides	Flutolanil	0.10 U	ng/L	0.10	0.52
6/24/2024 9:07	Blank	Pesticides	Fonofos	0.16 U	ng/L	0.16	0.78
6/24/2024 9:07	Blank	Pesticides	Molinate	0.26 U	ng/L	0.26	1.3
6/24/2024 9:07	Blank	Pesticides	Oxadiazon	0.36 U	ng/L	0.36	1.8
6/24/2024 9:07	Blank	Pesticides	Azinphos Methyl	3.1 U	ng/L	3.1	16
6/24/2024 9:07	Blank	Pesticides	Caffeine	7.8 U	ng/L	7.8	39
6/24/2024 9:07	Blank	Pesticides	Chlorfenapyr	0.31 U	ng/L	0.31	1.6
6/24/2024 9:07	Blank	Pesticides	Prodiamine	0.21 U	ng/L	0.21	1.0

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
6/24/2024 9:07	Blank	Pesticides	Propargite	0.83 U	ng/L	0.83	4.1
6/24/2024 9:07	Blank	Pesticides	Chlorpyrifos Methyl	0.10 U	ng/L	0.10	0.52
6/24/2024 9:07	Blank	Pesticides	Difenoconazole	0.62 U	ng/L	0.62	3.1
6/24/2024 9:07	Blank	Pesticides	Fenbuconazole	0.52 U	ng/L	0.52	2.6
6/24/2024 9:07	Blank	Pesticides	Fipronil Sulfide	0.10 U	ng/L	0.10	0.52
6/24/2024 9:07	Blank	Pesticides	Fluazifop-P-butyl	0.10 U	ng/L	0.10	0.52
6/24/2024 9:07	Blank	Pesticides	Myclobutanil	0.36 U	ng/L	0.36	1.8
6/24/2024 9:07	Blank	Pesticides	Napropamide	0.72 U	ng/L	0.72	3.6
6/24/2024 9:07	Blank	Pesticides	Acetochlor	0.21 U	ng/L	0.21	1.0
6/24/2024 9:07	Blank	Pesticides	Pendimethalin	1.8 U	ng/L	1.8	8.8
6/24/2024 9:07	Blank	Pesticides	Phenytoin	5.5 U	ng/L	5.5	27
6/24/2024 9:07	Blank	Pesticides	Prometryn	0.36 U	ng/L	0.36	1.8
6/24/2024 9:07	Blank	Pesticides	Pyridaben	1.4 U	ng/L	1.4	7.2
6/24/2024 9:07	Blank	Pesticides	Cyprodinil	0.21 U	ng/L	0.21	1.0
6/24/2024 9:07	Blank	Pesticides	Diazinon	0.13 U	ng/L	0.13	0.65
6/24/2024 9:07	Blank	Pesticides	Dithiopyr	1.0 U	ng/L	1.0	5.2
6/24/2024 9:07	Blank	Pesticides	Fluxapyroxad	0.26 U	ng/L	0.26	1.3
6/24/2024 9:07	Blank	Pesticides	Atrazine Desethyl	1.3 U	ng/L	1.3	6.7
6/24/2024 9:07	Blank	Pesticides	Bromacil	0.62 U	ng/L	0.62	3.1
6/24/2024 9:07	Blank	Pesticides	Carbophenothion	0.52 U	ng/L	0.52	2.6
6/24/2024 9:07	Blank	Pesticides	Chlorpyrifos Ethyl	0.31 U	ng/L	0.31	1.6
6/24/2024 9:07	Blank	Pesticides	Phorate	0.26 U	ng/L	0.26	1.3
6/24/2024 9:07	Blank	Pesticides	Propiconazole	0.62 U	ng/L	0.62	3.1
6/24/2024 9:07	Blank	Pesticides	Terbuthylazine	0.21 U	ng/L	0.21	1.0
6/24/2024 9:07	Blank	Pesticides	Triadimefon	0.16 U	ng/L	0.16	0.78
6/24/2024 9:07	Blank	Pesticides	Naproxen	0.0080 U	µg/L	0.0080	0.032
6/24/2024 9:07	Blank	Pesticides	Flumioxazin	3.1 U	ng/L	3.1	16
6/24/2024 9:07	Blank	Pesticides	Iprodione	0.52 U	ng/L	0.52	2.6
6/24/2024 9:07	Blank	Pesticides	Alachlor	0.41 UJ	ng/L	0.41	2.1
6/24/2024 9:07	Blank	Pesticides	Pronamide	0.10 U	ng/L	0.10	0.52
6/24/2024 9:07	Blank	Pesticides	Sulfentrazone	1.4 U	ng/L	1.4	7.2
6/24/2024 9:07	Blank	Pesticides	Thiobencarb	0.52 U	ng/L	0.52	2.6
6/24/2024 9:07	Blank	Pesticides	Dimethomorph	0.31 U	ng/L	0.31	1.6
6/24/2024 9:07	Blank	Pesticides	Disulfoton	0.62 U	ng/L	0.62	3.1

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
6/24/2024 9:07	Blank	Pesticides	Etridiazole	0.10 U	ng/L	0.10	0.52
6/24/2024 9:07	Blank	Pesticides	Imazalil	0.67 U	ng/L	0.67	3.4
6/24/2024 9:07	Blank	Pesticides	Malathion	0.36 U	ng/L	0.36	1.8
6/24/2024 9:07	Blank	Pesticides	Metolachlor	0.78 U	ng/L	0.78	3.9
6/24/2024 9:07	Blank	Pesticides	Butylate	0.47 U	ng/L	0.47	2.3
6/24/2024 9:07	Blank	Pesticides	Carfentrazone Ethyl	0.16 U	ng/L	0.16	0.78
6/24/2024 9:07	Blank	Pesticides	Parathion Ethyl	0.16 U	ng/L	0.16	0.78
6/24/2024 9:07	Blank	Pesticides	Parathion Methyl	0.21 U	ng/L	0.21	1.0
6/24/2024 9:07	Blank	Pesticides	Simazine	0.26 U	ng/L	0.26	1.3
6/24/2024 9:07	Blank	Pesticides	Stirophos	0.41 U	ng/L	0.41	3.3
6/24/2024 9:07	Blank	Pesticides	Terbufos	0.21 U	ng/L	0.21	1.0
6/24/2024 9:07	Blank	Pesticides	Coumaphos	1.1 U	ng/L	1.1	5.7
6/24/2024 9:07	Blank	Pesticides	Cyanazine	5.2 U	ng/L	5.2	26
6/24/2024 9:07	Blank	Pesticides	Demeton	3.6 U	ng/L	3.6	18
6/24/2024 9:07	Blank	Pesticides	Fipronil	0.21 U	ng/L	0.21	1.0
6/24/2024 9:07	Blank	Pesticides	Loratadine	0.31 U	ng/L	0.31	1.6
6/24/2024 9:07	Blank	Pesticides	Ametryn	1.1 U	ng/L	1.1	5.7
6/24/2024 9:07	Blank	Pesticides	Prometon	3.1 U	ng/L	3.1	16
6/24/2024 9:07	Blank	Pesticides	Propanil	0.10 U	ng/L	0.10	0.52
6/24/2024 9:07	Blank	Pesticides	Ethoprop	0.13 U	ng/L	0.13	0.65
6/24/2024 9:07	Blank	Pesticides	Fipronil Desulfinyl	0.10 U	ng/L	0.10	0.52
6/24/2024 9:07	Blank	Pesticides	Fipronil Sulfone	0.10 U	ng/L	0.10	0.52
6/24/2024 9:07	Blank	Pesticides	Fludioxonil	0.10 U	ng/L	0.10	0.52
6/24/2024 9:07	Blank	Pesticides	Metribuzin	0.41 U	ng/L	0.41	2.1
6/24/2024 9:07	Blank	Pesticides	Mevinphos	1.0 U	ng/L	1.0	5.2
6/24/2024 9:07	Blank	Pesticides	Norflurazon	1.0 U	ng/L	1.0	5.2
6/24/2024 9:07	Blank	Pesticides	Oxyfluorfen	0.21 U	ng/L	0.21	1.0
6/24/2024 9:07	Blank	Pesticides	Pyraflufen Ethyl	0.31 U	ng/L	0.31	1.6
6/24/2024 9:07	Blank	Pesticides	Tebuconazole	1.4 U	ng/L	1.4	7.2
6/24/2024 9:07	Blank	Priority Organic Pollutants	Hexachlorobenzene	0.051 U	µg/L	0.051	0.20
6/24/2024 9:07	Blank	Priority Organic Pollutants	Pentachlorophenol	0.51 U	µg/L	0.51	2.0
6/24/2024 9:07	Blank	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.051 U	µg/L	0.051	0.20
6/24/2024 9:07	Blank	Priority Organic Pollutants	N-Nitrosodimethylamine	2.0 U	µg/L	2.0	8.2
6/24/2024 9:07	Blank	Priority Organic Pollutants	3,3'-Dichlorobenzidine	10 U	µg/L	10	41

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
6/24/2024 9:07	Blank	Priority Organic Pollutants	Dimethyl phthalate	0.20 U	µg/L	0.20	0.82
6/24/2024 9:07	Blank	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.026 U	µg/L	0.026	0.10
6/24/2024 9:07	Blank	Priority Organic Pollutants	Pyrene	0.10 U	µg/L	0.10	0.41
6/24/2024 9:07	Blank	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	5.1 U	µg/L	5.1	20
6/24/2024 9:07	Blank	Priority Organic Pollutants	Chrysene	0.026 U	µg/L	0.026	0.10
6/24/2024 9:07	Blank	Priority Organic Pollutants	Naphthalene	0.10 U	µg/L	0.10	0.41
6/24/2024 9:07	Blank	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.051 U	µg/L	0.051	0.20
6/24/2024 9:07	Blank	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.051 U	µg/L	0.051	0.20
6/24/2024 9:07	Blank	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.051 U	µg/L	0.051	0.20
6/24/2024 9:07	Blank	Priority Organic Pollutants	Benzo(a)pyrene	0.026 U	µg/L	0.026	0.10
6/24/2024 9:07	Blank	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.051 U	µg/L	0.051	0.20
6/24/2024 9:07	Blank	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.026 U	µg/L	0.026	0.10
6/24/2024 9:07	Blank	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.051 U	µg/L	0.051	0.20
6/24/2024 9:07	Blank	Priority Organic Pollutants	2-Nitrophenol	0.051 U	µg/L	0.051	0.20
6/24/2024 9:07	Blank	Priority Organic Pollutants	Acenaphthylene	0.026 U	µg/L	0.026	0.10
6/24/2024 9:07	Blank	Priority Organic Pollutants	Benzidine	10 U	µg/L	10	41
6/24/2024 9:07	Blank	Priority Organic Pollutants	Diethyl phthalate	2.0 U	µg/L	2.0	8.2
6/24/2024 9:07	Blank	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.051 U	µg/L	0.051	0.20
6/24/2024 9:07	Blank	Priority Organic Pollutants	Fluorene	0.026 U	µg/L	0.026	0.10
6/24/2024 9:07	Blank	Priority Organic Pollutants	Hexachlorobutadiene	0.051 U	µg/L	0.051	0.20
6/24/2024 9:07	Blank	Priority Organic Pollutants	Isophorone	0.051 U	µg/L	0.051	0.20
6/24/2024 9:07	Blank	Priority Organic Pollutants	2,4-Dinitrophenol	0.010 U	µg/L	0.010	0.041
6/24/2024 9:07	Blank	Priority Organic Pollutants	Acenaphthene	0.026 U	µg/L	0.026	0.10
6/24/2024 9:07	Blank	Priority Organic Pollutants	Anthracene	0.051 U	µg/L	0.051	0.20
6/24/2024 9:07	Blank	Priority Organic Pollutants	Benzo(b)fluoranthene	0.026 U	µg/L	0.026	0.10
6/24/2024 9:07	Blank	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.026 U	µg/L	0.026	0.10
6/24/2024 9:07	Blank	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.051 U	µg/L	0.051	0.20
6/24/2024 9:07	Blank	Priority Organic Pollutants	Di-n-butyl phthalate	2.0 U	µg/L	2.0	8.2
6/24/2024 9:07	Blank	Priority Organic Pollutants	Di-n-octyl phthalate	0.051 U	µg/L	0.051	0.20
6/24/2024 9:07	Blank	Priority Organic Pollutants	Hexachloroethane	0.051 U	µg/L	0.051	0.20
6/24/2024 9:07	Blank	Priority Organic Pollutants	Nitrobenzene	0.051 U	µg/L	0.051	0.20
6/24/2024 9:07	Blank	Priority Organic Pollutants	2-Chloronaphthalene	0.051 U	µg/L	0.051	0.20
6/24/2024 9:07	Blank	Priority Organic Pollutants	2-Chlorophenol	0.051 U	µg/L	0.051	0.20
6/24/2024 9:07	Blank	Priority Organic Pollutants	2,4-Dichlorophenol	0.051 U	µg/L	0.051	0.20

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
6/24/2024 9:07	Blank	Priority Organic Pollutants	2,6-Dinitrotoluene	0.051 U	µg/L	0.051	0.20
6/24/2024 9:07	Blank	Priority Organic Pollutants	Benzo(k)fluoranthene	0.026 U	µg/L	0.026	0.10
6/24/2024 9:07	Blank	Priority Organic Pollutants	Fluoranthene	0.051 U	µg/L	0.051	0.20
6/24/2024 9:07	Blank	Priority Organic Pollutants	Phenol	0.051 U	µg/L	0.051	0.20
6/24/2024 9:07	Blank	Priority Organic Pollutants	Phenanthrene	0.10 U	µg/L	0.10	0.41
6/24/2024 9:07	Blank	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.051 U	µg/L	0.051	0.20
6/24/2024 9:07	Blank	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.1 U	µg/L	3.1	12
6/24/2024 9:07	Blank	Priority Organic Pollutants	2,4-Dimethylphenol	0.051 U	µg/L	0.051	0.20
6/24/2024 9:07	Blank	Priority Organic Pollutants	2,4-Dinitrotoluene	0.051 U	µg/L	0.051	0.20
6/24/2024 9:07	Blank	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.051 U	µg/L	0.051	0.20
6/24/2024 9:07	Blank	Priority Organic Pollutants	4-Nitrophenol	10 U	µg/L	10	41
6/24/2024 9:07	Blank	Priority Organic Pollutants	Benzo(a)anthracene	0.026 U	µg/L	0.026	0.10
6/24/2024 9:07	Blank	Priority Organic Pollutants	Butyl benzyl phthalate	1.0 U	µg/L	1.0	4.1
6/24/2024 9:07	Blank	Nutrients	pH	2	SU		
6/24/2024 9:20	Blank	Nutrients	Total Alkalinity	0.65 U	mg CaCO3/L	0.65	2.5
6/24/2024 9:20	Blank	Nutrients	Chloride	0.51	mg Cl/L	0.20	0.50
6/24/2024 9:20	Blank	Nutrients	Kjeldahl Nitrogen	0.080 U	mg N/L	0.080	0.20
6/24/2024 9:20	Blank	Nutrients	Total-P	0.005	mg P/L	0.0020	0.0050
6/24/2024 9:20	Blank	Nutrients	O-Phosphate-P	0.004 U	mg P/L	0.0040	0.010
6/24/2024 9:20	Blank	Nutrients	Ammonia-N	0.002 U	mg N/L	0.0020	0.0050
6/24/2024 9:20	Blank	Nutrients	Color (true)	2.5 U	PCU	2.5	6.0
6/24/2024 9:20	Blank	Nutrients	Sulfate	0.20 U	mg SO4/L	0.20	0.50
6/24/2024 9:20	Blank	Nutrients	NO2NO3-N	0.004 U	mg N/L	0.0040	0.010
6/24/2024 9:20	Blank	Nutrients	pH	2	SU		