Effluent Quality Assessment of Clearwater Marine Aquarium Pinellas County NPDES # FL0450707 Sampled October 09, 2023

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

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Summary of Results

The dissolved oxygen (mg/L) measured in the effluent did not meet the effluent permit limit. All other analytes measured in the effluent grab sample complied with the Class III Water Quality Criteria for Marine Waters and effluent permit limits. The algal growth potential (AGP) and nutrient results do not suggest a potential for nutrient enrichment of the receiving waters. The effluent sample was not toxic to the marine organisms tested. There were two organic constituents detected in the effluent grab sample.

Facility Overview

The Clearwater Marine Aquarium is a marine animal 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 Clearwater Harbor (North), a Class III Marine Water [waterbody identification (WBID) 1528C] which flows into Hillsborough Bay (WBID 1558D) (Figure 1).

Receiving waters for this facility fall under the Estuary-Specific Numeric Interpretations of the Narrative Nutrient Criteria (NNC) for Hillsborough Bay within the Tampa Bay region. For this region, the NNC, expressed as annual load, are 1.28 tons/million cubic meters of water total phosphorus, 1.62 tons/million cubic meters of water total nitrogen, and, expressed as annual mean, 15.0 µg/L chlorophyll *a* (Subparagraph 62-302.532(1)(b)2., F.A.C.). For Class III predominantly marine waters, the daily average dissolved oxygen (DO) saturation shall not be below 42 percent in more than 10 percent of the values (Subsection 62-302.533(2), F.A.C.). This FYI event only provides single sample results. It should be noted that waterbody impairment assessments are based on longer-term data, and individual exceedances of a criterion do not indicate use impairment. http://ca.dep.state.fl.us/mapdirect/?focus=nutrientcriteria

Methods

Effluent grab samples were collected after dechlorination and prior to discharge from monitoring site location EFF-1, for Outfall D-001 on October 09, 2023.

Samples were collected by Emmalise Hunter, Hannah Teague, and Emily Conaty (Southwest District). Analyses were performed by Eurofins Environmental Testing in Orlando, Benchmark EnviroAnalytical, Inc. in Palmetto, 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.

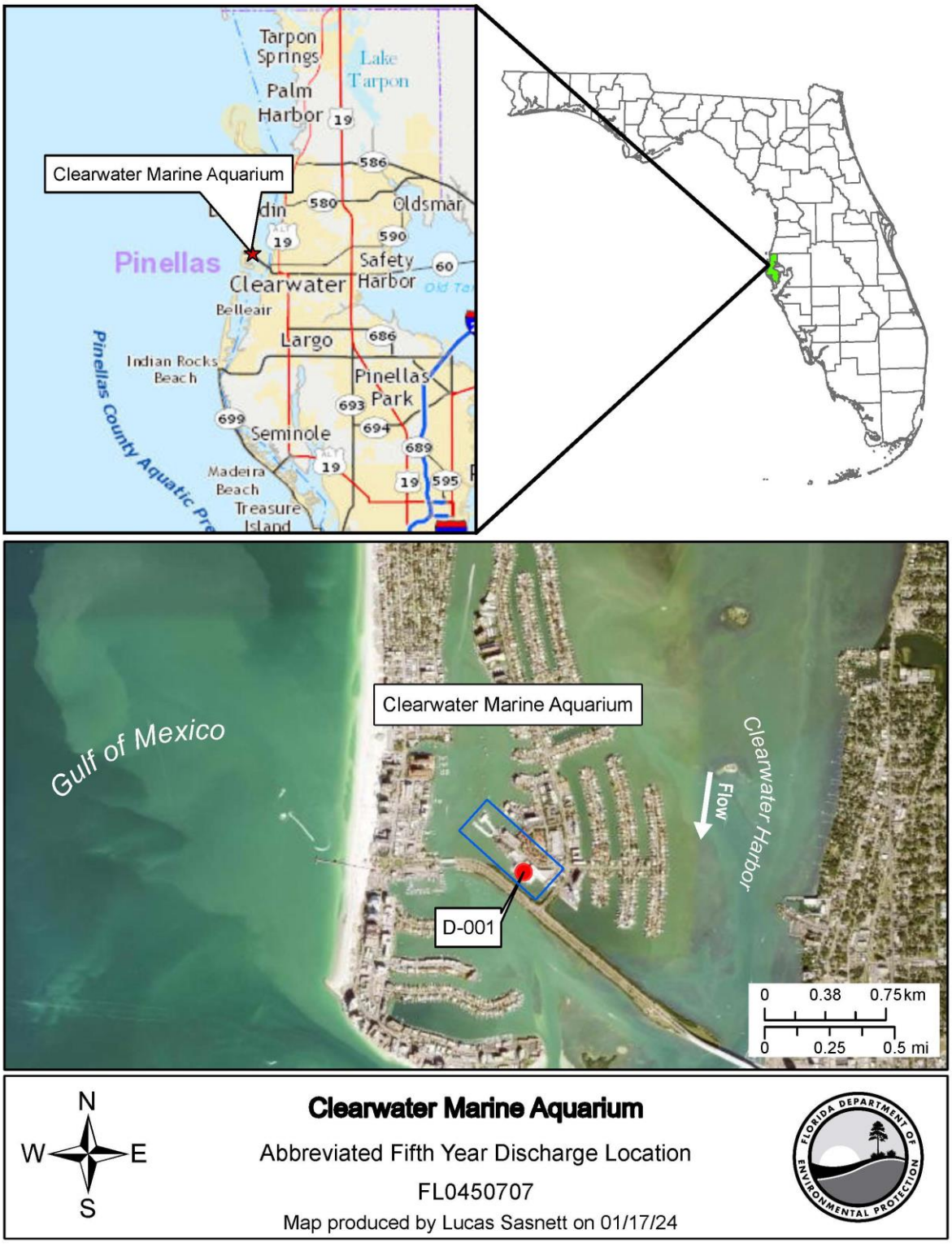


Figure 1. Map of Facility and Discharge Location

Results

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

- The dissolved oxygen (mg/L) measured in the effluent did not meet the effluent permit limit.

Analytical Water Chemistry (See Table 2 and Appendix D)

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

- Ortho-phosphate, total ammonia nitrogen, and total organic carbon were detected in the blank between the MDL and PQL.

Microbiology (See Table 2 and Appendix B)

- Effluent enterococci levels complied with the Class III Water Quality Criterion for Marine Waters and effluent permit limit.

Toxicity Whole Effluent Test (See Table 2)

- Tests were performed October 10 through October 14, 2023.

- 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 mysid, *Americamysis bahia*, was >100% effluent with 0% mortality in 100% sample. The calculated LC50 for the fish, *Menidia beryllina*, was >100% effluent with 5% 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)

- Effluent metals complied with Class III Water Quality Criteria for Marine Waters and effluent permit limits.

- Copper was detected in the blank between the MDL and PQL.

Algal Growth Potential (See Table 4 and Appendix B)

- The marine species, *Dunaliella tertiolecta*, was used to determine the AGP value in the effluent grab sample. The AGP was undetected in the effluent grab sample. The analytical chemistry suggests that the effluent is nitrogen-phosphorus co-limited (Miller et al. 1978).

Organic Constituents (See Table 5 and Appendix D)

- Atrazine (herbicide) and fipronil desulfinyl (insecticide) were detected in the effluent grab sample. Results were Q qualified for holding the samples beyond normal hold time.

- There are no effluent permit limits for organic constituents.

Literature Cited

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

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

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

Table 1. Measured field parameters

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

Parameter	Units	Class III Criteria	Effluent Permit Limits	EFF-1
Sample Depth	m	-	-	0.8
Temperature	C	-	Report	24.7
pH	SU	6.5 - 8.5	6.5 - 8.5	7.9
Specific Conductance	µmhos/cm	-	-	56,432
Salinity	ppth	-	-	38 c
Dissolved Oxygen	% saturation	≥ 42	-	63.3
Dissolved Oxygen	mg/L	-	≥ 4.6	4.2 e

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

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

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

Analyte	Units	Class III Criteria	Effluent Permit Limits	Effluent Grab
Ortho-phosphate[1]	mg P/L	-	-	0.066
Total Phosphorus	mg P/L	-	Report	0.072
Total Ammonia Nitrogen[1]	mg N/L	-	-	0.079
Un-ionized Ammonia (calculated salinity)	mg N/L	-	-	< 0.02 c
Nitrate and Nitrite	mg N/L	-	Report	0.80
Total Kjeldahl Nitrogen	mg N/L	-	-	0.61
Organic Nitrogen	mg N/L	-	-	0.53 c
Total Nitrogen	mg N/L	-	Report	1.41 c
Total Organic Carbon[1]	mg C/L	-	-	4.7
Chlorophyll *a* - Corrected	µg/L	≤ 15.0 a	-	6.4
Phaeophytin	µg/L	-	-	1.6 I
CBOD, 5 day, N - inhibited	mg/L	-	Report	2.0 UJ
Hardness	mg CaCO3/L	-	-	6,770 c
Total Suspended Solids	mg/L	-	Report	17
Turbidity	NTU	≤ 29 t	≤ 29	4.6
Color (true)	PCU	-	-	3.0 I
Alkalinity	mg CaCO3/L	-	-	116
Chloride	mg Cl/L	-	-	22,000
Fluoride	mg F/L	≤ 5.0	-	1.3
Sulfate	mg SO4/L	-	-	3,100
Enterococci	MPN/100 mL	≤ 130	≤ 35 s	10 U
Bioassay - Mysid *(Americamysis bahia)*	% effluent	-	>100 s	>100
Bioassay - Fish *(Menidia beryllina)*	% effluent	-	>100 s	>100

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
1 - Analyte detected in the field blank
a - Annual average
c - Value is calculated
s - Single sample
t - Shall not exceed 29 NTUs above background
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 Marine Waters, and analytical metals data

Analyte	Units	Class III Criteria	Effluent Permit Limits	Effluent Grab
Aluminum	µg/L	≤ 1500	-	67 I
Arsenic	µg/L	≤ 50	-	3.6
Cadmium	µg/L	≤ 8.8	-	0.20 U
Calcium	mg/L	-	-	450
Chromium, Total [2]	µg/L	≤ 50	-	4.0 U
Copper[1]	µg/L	≤ 3.7	≤ 3.7 s	2.4 I
Iron	µg/L	≤ 300	-	90 U
Lead	µg/L	≤ 8.5	-	2.0 U
Magnesium	mg/L	-	-	1,370
Nickel	µg/L	≤ 8.3	-	5.0 U
Potassium	mg/L	-	-	470
Selenium	µg/L	≤ 71	-	2.0 U
Silver	µg/L	≤ 2.3	-	0.040 U
Sodium	mg/L	-	-	11,500
Zinc	µg/L	≤ 86	-	20 U

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
1 - Analyte detected in the field blank
2 - Class III Marine Water Quality Criterion (62-302.530(19)(b), F.A.C.) is for chromium-VI
s - Single sample
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

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	*Dunaliella tertiolecta*	3.00 U	not applicable [3]	not applicable [3]	not applicable [3]	not applicable [3]	13.3	19.6

3 - predictions not applicable to marine matrix
U - Material analyzed for but not detected; value reported is the method detection limit

Table 5. Detected Organic Constituents

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

Analyte	Units	Class III Criteria	Effluent Permit Limits	Effluent Grab
Atrazine	ng/L	-	-	1.8 Q
Fipronil Desulfinyl	ng/L	-	-	0.12 IQ

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
Q - Sample held beyond normal holding time

Appendix A. Facility Summary

PART I: Information gathered prior to sampling event	
Prepared By: Emily Conaty	Contact Number: 813-470-5743
Facility Name (as it appears on permit): Clearwater Marine Aquarium	Former Names:
NPDES Permit Number: FL0450707	Permit Expiration Date: 7/29/2024
Physical Address: 249 Windward Passage Clearwater, FL 33767-2244	
District: Southwest	County: Pinellas
Function of Facility: The Clearwater Marine Aquarium is a marine animal facility with exhibits, housing dolphins, sea turtles, and other marine organisms.	
Facility Type: Industrial Wastewater	Permitted Capacity (MGD): N/A
Mean Flow for previous 12 months for all EXTERNAL outfalls listed in permit (list date range including months): From 08/01/2022-08/31/2023: Average Maximum Daily Flow D-001: 0.068461538 MGD	
If applicable, Mean Flow for previous 12 months for REUSE outfall(s) (list date range including months): N/A	
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-1	Flow at Outfall D-001
EFF-1	Effluent Sampling Point 1. Located after de-chlorination, prior to discharge.

Description of Permitted Outfall(s):

Surface Water Discharge D-001: An existing 0.43 million gallon (MG) 30-Day Maximum Flow permitted discharge to Clearwater Harbor, Class III Marine Waters, (WBID# 1528C). The point of discharge is located approximately at latitude 27°58' 37" N, longitude 82°49' 9" W.

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

The Clearwater Marine Aquarium is a marine animal facility with exhibits, housing dolphins, sea turtles, and other marine organisms. It rehabilitates and returns to the ocean marine animals that are able to self-sustain and houses those that are deemed unable to survive in the wild. Animals that have a permanent residence in the aquarium are also exhibited to provide awareness and education to the ongoing efforts of the aquarium. Seawater will be pumped from the cove adjacent to the property. It will then be sand filtered and stored onsite. When needed, stored water will be used to provide makeup water to all of the saltwater tanks/ exhibits in the aquarium. Water within the tanks/ exhibits will then be filtered, in a constant circulation closed loop until needed.

WASTEWATER TREATMENT:

Only water from the tanks/exhibits will be discharged to the cove. Water from the tanks/exhibits will be de-chlorinated prior to discharge into the cove. All wastewater created by backwashing of filters will be discharged to the City of Clearwater domestic wastewater system.

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			
Parameters	Units	Max /Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max Max	0.39 0.43	Daily Maximum 30 Day Maximum	Monthly	Calculated	FLW-1	See I.A.4
Copper, Total Recoverable	µg/L	Max	3.7	Single Sample	Monthly	Grab	EFF-1	
Oxygen, Dissolved (DO)	mg/L	Min	4.6	Daily Minimum	Monthly	In Situ	EFF-1	
pH	s.u.	Min Max	6.5 8.5	Daily Minimum Daily Maximum	Monthly	In Situ	EFF-1	
Chlorine, Total Residual	mg/L	Max	0.01	Daily Maximum	Monthly	In Situ	EFF-1	See I.A.5
Temperature (C), Water	Deg C	Max	Report	Daily Maximum	Monthly	In Situ	EFF-1	
Turbidity	NTU	Max	29	Daily Maximum	Monthly	In Situ	EFF-1	
Enterococci	#/100mL	Max	35	Single Sample	Quarterly	Grab	EFF-1	See I.A.6
Nitrogen, Total	mg/L	Max	Report	Daily Maximum	Quarterly	Grab	EFF-1	
Nitrite plus Nitrate, Total 1 det. (as N)	mg/L	Max	Report	Daily Maximum	Quarterly	Grab	EFF-1	
Phosphorus, Total (as P)	mg/L	Max	Report	Daily Maximum	Quarterly	Grab	EFF-1	
BOD, Carbonaceous 5 day, 20C	mg/L	Max	Report	Daily Maximum	Quarterly	Grab	EFF-1	
Solids, Total Suspended	mg/L	Max	Report	Daily Maximum	Quarterly	Grab	EFF-1	
Acute Whole Effluent Toxicity, 96 Hour LC50 (Menidia beryllina)	percent	Min	100	Single Sample	Annually	Grab	EFF-1	See I.A.7
Acute Whole Effluent Toxicity, 96 Hour LC50 (Americamysis (Mysidopsis) bahia)	percent	Min	100	Single Sample	Annually	Grab	EFF-1	See I.A.7

PART I: Continued

Receiving Waters:	Classification (indicate whether fresh or marine):
Hillsborough Bay	Class III Marine Waters (WBID 1558D)

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

7. The permittee shall comply with the following requirements to evaluate acute whole effluent toxicity of the discharge from outfall D-001. a. Effluent Limitation (1) In any routine or additional follow-up test for acute whole effluent toxicity, the 96-hour LC50 shall not be less than 100% effluent. [Rules 62-302.200(1), 62-302.500(1)(a)4., 62-4.244(3)(a), and 62-4.241(1)(a) or (2)(a), F.A.C.]

b. Monitoring Frequency (1) Routine toxicity tests shall be conducted annually, the first starting within 60 days of the effective date of this permit and lasting for the duration of this permit.

c. Sampling Requirements (1) All tests shall be conducted on a single grab sample of final effluent.

d. Test Requirements (1) Routine Tests: All routine tests shall be conducted using a control (0% effluent) and a minimum of five dilutions: **100%, 75%, 50%**, **25%**, and **12.5%** effluent.

(2) The permittee shall conduct 96-hour acute static renewal toxicity tests using the mysid, **Americamysis (Mysidopsis) bahia**, and the inland silverside, **Menidia beryllina**, concurrently.

(3) All test species, procedures and quality assurance criteria used shall be in accordance with **Methods for Measuring Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms**, 5th Edition, EPA-821-R-02-012. 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 acute toxicity testing in accordance with the revised method.

(4) The control water and dilution water used shall be artificial seawater and diluted to the test salinity as described in EPA-821-R-02-012, Section 7.2.4. The test salinity shall be determined as follows: (a) When the salinity of the effluent is between 1 and 7 parts per thousand (ppt), the following salinity adjustment shall be used. For the **Americamysis bahia** bioassays, the effluent and the control (0% effluent) shall be adjusted to a salinity of 7 ppt for the 100% effluent test using artificial sea salts. No salinity adjustment shall be done for the **Menidia beryllina** bioassay test. The salinity of the control/dilution water (0% effluent) shall match the test salinity of the effluent. A salinity adjustment control should be prepared and included with the **Americamysis bahia** bioassay. The salinity adjustment control is intended to identify toxicity resulting from adjusting the salinity of the effluent 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 to 7 ppt at the same time that the salinity of the effluent is adjusted to 7 ppt, using the same artificial sea salts.

(b) When the salinity of the effluent is greater than 7 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 (0% effluent) shall match the test salinity of the effluent.

e. Quality Assurance Requirements (1) A standard reference toxicant (SRT) quality assurance (QA) acute 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 acute 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 10% for either species in any test, the test for that species (including the control) shall be invalidated and the test repeated. The repeat test shall begin within 14 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 10% 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 concentration-response relationship, as required by EPA-821-R-02-012, Section 12.2.6.2., and 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 Test Results: If an LC50 >100% effluent occurs in the test for the test species, ">100%" shall be entered on the DMR for that test species. If an LC50 <100% effluent occurs, the calculated LC50 effluent concentration shall be entered on the DMR for that test species.

(b) Additional Follow-up Test Results: For each additional test required, the calculated LC50 value shall be entered on the DMR for that test species.

(2) A bioassay laboratory report for the routine test shall be prepared according to EPA-821-R-02-012, Section 12, 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-02-012, Section 12, 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
swd_iw@dep.state.fl.us

g. Test Failures (1) A test fails when the test results do not meet the limits in 7.a.(1).

(2) Additional Follow-up Tests:

If a routine test does not meet the acute toxicity limitation in 7.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 7.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%, 75%, 50%, 25%, and 12.5% 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 statistically analyzed according to the procedures in EPA-821-R-02-012.

(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 7.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 7.b.(1). If a routine test is invalid according to the acceptance criteria in EPA-821-R-02-012, a repeat test shall be initiated within 14 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 7.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 14 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) The additional follow-up testing and the plan do not preclude the Department taking enforcement action for 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:

N/A

Describe previous FYI and WQBEL study:

N/A

Describe previous or current Enforcement Actions (including WLs):

N/A

Describe any violations or problems noted in previous inspection:

Last Inspection: 12/10/2020 No deficiencies noted.

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

- **Bacteriological Testing**

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

- **Algal Growth Potential (AGP)**

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

  The concentration of nutrients in a water sample may be used to calculate the expected yield of AGP under the assumption that other required nutrients (e.g. silicon, micronutrients) are present in excess (Miller *et al*. 1978). The expected amount of production is calculated as 38

times the total soluble inorganic nitrogen (nitrate and nitrite plus ammonia) under nitrogen limitation or 430 times the ortho-phosphate (OP) concentration under phosphorus limitation with an error of ± 20%. When the ratio of nitrogen to phosphorus (N: P) is less than 10:1, nitrogen limitation of algal production is likely. When the N: P ratio is 20:1 or greater, phosphorus limitation is likely (USEPA 2000). For ratios in-between, co-limitation may occur. Production of lower biomass than expected may be evidence of growth inhibition related to toxic compounds present in the water sample tested and may constitute an exceedance of Subsection 62-302.530(62), F.A.C.

- **Chlorophyll *a* Content**

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

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

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

Appendix C. Chain of Custody

Request Number: RQ-2023-09-25-38

FY13 Clearwater Marine Aquarium FL0450707

Customer: SW-DIST

Project ID: FYI3

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Page 1 of 3

last revised Jan 25, 2018

Requester: Benjamin Nomann

Collected By: E. Hunter, H. Teague, E. Conaty

Field Report Prepared By: Emmalise Hunter

Sampling Agency: FDEP - SWD

Location: Clearwater Marine Aquarium D-001	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 10-09-2023 Time 10:00am	Eastern Central	Composite end Date	Time	Bottle Group(s) (See pg 2): A				
Field ID: D-001 grab	Matrix (type, e.g., Salt, Fresh, etc): Salt		Diss. Oxygen 4.23 / 63.3	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L): N/A					
WIN/STORET #	Temp (C): 24.7	pH: 7.88	Sample Depth: 0.75	☐ ft ☒ m	Sp. Conductance (umho/cm): 56,432					
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt): 37.52	Comments							
Location: Clearwater Marine Aquarium	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 10-09-2023 Time 10:45am	Eastern Central	Composite end Date	Time	Bottle Group(s): B				
Field ID: Field Blank	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L): N/A					
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
Emmalise Hunter	10/09/23 5:00pm	FED EX		ABS	10.10.23 9:01

Daron Whitesell 10.10.23/0920

2. Tox Bioassay jugs

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

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

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

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

Contractor Representatives Contacted: Noel Savoie

Date: 9/8/2023
Means of Contact: Email

Task Assignment Number: OV481 Maximum Cost: **$41.50** Turnaround Time: 5 BD

Sample Delivery Date: 10/10/2023

Project Name/Description:
RQ-2023-09-25-38;FYI3 Clearwater Marine Aquarium FL0450707

Deliverable Number/ Parameter Group/ Method	**Sample Matrix**	**# of Samples**	**# of Containers**	**DEP ID #**	**Unit Cost**	**% Mark-up (if any)**	**Cost**
Quote/OV-CBOD-IN CBOD, nitrogen-inhibited 5210B-2011	W	1	1		$39.00		$39.00
217/Sample Disposal Fee:	1				$2.50		$2.50
Total Number of Containers Shipped:	1					**Total:**	**$41.50**

670-28281 Chain of Custody

QC Instructions:

Comments: Quote # 66018208 - 0

Samples released to Contract Lab by: _____ _____ Date/Time: _____

Delivery Method: _____Shipping_____

Samples Accepted by: _____ _____ Date/Time _____

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

10/10 0910
1.0/0-5 586

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 +

Invoice to: FDEP Micro Overflow emmalise.c.hunter@floridadep.gov

PO#_____

Project Name: Clearwater Marine Aquarium RQ 2023-09-25-38

Laboratory Submission # I3100408

Sample Name	Sample Type[1] / Sample Matrix[2]	Collection		Container			Preservative[4]	Parameters for Analysis	Laboratory Sample #
		Date	Time	Qty	Capacity	Type[3]			
Clearwater Marine Aquarium D-001		10/9/2023	12:30pm	1	100mL	P	NaThio	Enterococci	1

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:
BEAS Temperature:

	Collected / Relinquished By & Affiliation: (Print & Sign)	Date	Time	Received By& Affiliation: (Print & Sign)	Date	Time
1	Emmalise Hunter FDEP	10/9/23	12:31pm	Nathan Hadsell	10-9-23	1231
2	Relinquished By& Affiliation: (Print & Sign)	Date	Time	Received By& Affiliation: (Print & Sign)	Date	Time

Copy 08.0

Appendix D. Chemical Analysis of Effluent

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
10/9/2023 10:00	Effluent Grab	AGP/LN	Algal Growth Potential - Saltwater	3.00 U	mg DryWt/L	3.00	3.00
10/9/2023 10:00	Effluent Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	7.6	µg/L	0.70	2.1
10/9/2023 10:00	Effluent Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	6.4	µg/L	0.96	2.9
10/9/2023 10:00	Effluent Grab	Chlorophyll/Grain Size/BOD	Phaeophytin-a	1.6 I	µg/L	1.0	3.2
10/9/2023 10:00	Effluent Grab	Overflow	Carbonaceous Biochemical Oxygen Demand	2.0 UJ	mg/L	2.0	2.0
10/9/2023 10:00	Effluent Grab	Overflow	Enterococci-Quanti-Tray	10 U	MPN/100 mL	10	10
10/9/2023 10:00	Effluent Grab	Toxicology	Bioassay-Acute-Def-SW-Fish, LC50	100 L	LC50	-	-
10/9/2023 10:00	Effluent Grab	Toxicology	Bioassay-Acute-Def-SW-Mysid, LC50	100 L	LC50	-	-
10/9/2023 10:00	Effluent Grab	Metals	Sodium	1.15E+04	mg/L	50	200
10/9/2023 10:00	Effluent Grab	Metals	Aluminum	67 I	µg/L	50	200
10/9/2023 10:00	Effluent Grab	Metals	Nickel	5.0 U	µg/L	5.0	20
10/9/2023 10:00	Effluent Grab	Metals	Cadmium	0.20 U	µg/L	0.20	0.80
10/9/2023 10:00	Effluent Grab	Metals	Arsenic	3.6	µg/L	0.50	2.0
10/9/2023 10:00	Effluent Grab	Metals	Lead	2.0 U	µg/L	2.0	4.0
10/9/2023 10:00	Effluent Grab	Metals	Potassium	470	mg/L	30	120
10/9/2023 10:00	Effluent Grab	Metals	Zinc	20 U	µg/L	20	80
10/9/2023 10:00	Effluent Grab	Metals	Calcium	450	mg/L	0.22	0.90
10/9/2023 10:00	Effluent Grab	Metals	Silver	0.040 U	µg/L	0.040	0.16
10/9/2023 10:00	Effluent Grab	Metals	Chromium	4.0 U	µg/L	4.0	16
10/9/2023 10:00	Effluent Grab	Metals	Magnesium	1.37E+03	mg/L	4.0	16
10/9/2023 10:00	Effluent Grab	Metals	Iron	90 U	µg/L	90	360
10/9/2023 10:00	Effluent Grab	Metals	Selenium	2.0 U	µg/L	2.0	8.0
10/9/2023 10:00	Effluent Grab	Metals	Copper	2.4 I	µg/L	1.6	3.2
10/9/2023 10:00	Effluent Grab	Nutrients	Fluoride	1.3	mg F/L	0.12	0.50
10/9/2023 10:00	Effluent Grab	Nutrients	Organic Carbon	4.7	mg C/L	2.0	4.0
10/9/2023 10:00	Effluent Grab	Nutrients	O-Phosphate-P	0.066	mg P/L	0.0040	0.010
10/9/2023 10:00	Effluent Grab	Nutrients	Total-P	0.072	mg P/L	0.0040	0.010
10/9/2023 10:00	Effluent Grab	Nutrients	NO2NO3-N	0.80	mg N/L	0.020	0.050
10/9/2023 10:00	Effluent Grab	Nutrients	Kjeldahl Nitrogen	0.61	mg N/L	0.16	0.40
10/9/2023 10:00	Effluent Grab	Nutrients	Sulfate	3.1E+03	mg SO4/L	80	200

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
10/9/2023 10:00	Effluent Grab	Nutrients	TSS	17	mg/L	3.0	10
10/9/2023 10:00	Effluent Grab	Nutrients	Color (true)	3.0 I	PCU	2.5	6.0
10/9/2023 10:00	Effluent Grab	Nutrients	Chloride	2.2E+04	mg Cl/L	80	200
10/9/2023 10:00	Effluent Grab	Nutrients	Turbidity	4.6	NTU	0.10	1.0
10/9/2023 10:00	Effluent Grab	Nutrients	Total Alkalinity	116	mg CaCO3/L	0.65	2.5
10/9/2023 10:00	Effluent Grab	Nutrients	Ammonia-N	0.079	mg N/L	0.0020	0.0050
10/9/2023 10:00	Effluent Grab	Pesticides	Terbufos	0.20 UQ	ng/L	0.20	1.0
10/9/2023 10:00	Effluent Grab	Pesticides	Bromacil	0.60 UQ	ng/L	0.60	3.0
10/9/2023 10:00	Effluent Grab	Pesticides	Butylate	0.45 UQ	ng/L	0.45	2.2
10/9/2023 10:00	Effluent Grab	Pesticides	Chlorpyrifos Ethyl	0.30 UQ	ng/L	0.30	1.5
10/9/2023 10:00	Effluent Grab	Pesticides	Demeton	3.5 UQ	ng/L	3.5	17
10/9/2023 10:00	Effluent Grab	Pesticides	Difenoconazole	0.60 UQ	ng/L	0.60	3.0
10/9/2023 10:00	Effluent Grab	Pesticides	EPTC	0.50 UQ	ng/L	0.50	2.5
10/9/2023 10:00	Effluent Grab	Pesticides	Fluazifop-P-butyl	0.10 UQ	ng/L	0.10	0.50
10/9/2023 10:00	Effluent Grab	Pesticides	Fluxapyroxad	0.25 UQ	ng/L	0.25	1.2
10/9/2023 10:00	Effluent Grab	Pesticides	Metalaxyl	0.50 UQ	ng/L	0.50	2.5
10/9/2023 10:00	Effluent Grab	Pesticides	Naled	2.5 UQ	ng/L	2.5	12
10/9/2023 10:00	Effluent Grab	Pesticides	Norflurazon	1.0 UQ	ng/L	1.0	5.0
10/9/2023 10:00	Effluent Grab	Pesticides	Prometon	3.0 UQ	ng/L	3.0	15
10/9/2023 10:00	Effluent Grab	Pesticides	Alachlor	0.40 UQ	ng/L	0.40	2.0
10/9/2023 10:00	Effluent Grab	Pesticides	Atrazine Desethyl	1.3 UQ	ng/L	1.3	6.5
10/9/2023 10:00	Effluent Grab	Pesticides	Disulfoton	0.60 UQ	ng/L	0.60	3.0
10/9/2023 10:00	Effluent Grab	Pesticides	Ethoprop	0.12 UQ	ng/L	0.12	0.62
10/9/2023 10:00	Effluent Grab	Pesticides	Fenbuconazole	0.50 UQ	ng/L	0.50	2.5
10/9/2023 10:00	Effluent Grab	Pesticides	Oxadiazon	0.35 UQ	ng/L	0.35	1.7
10/9/2023 10:00	Effluent Grab	Pesticides	Simazine	0.25 UQ	ng/L	0.25	1.2
10/9/2023 10:00	Effluent Grab	Pesticides	Acetochlor	0.20 UQ	ng/L	0.20	1.0
10/9/2023 10:00	Effluent Grab	Pesticides	Fenamiphos	0.45 UQ	ng/L	0.45	2.2
10/9/2023 10:00	Effluent Grab	Pesticides	Fipronil Desulfinyl	0.12 IQ	ng/L	0.10	0.50
10/9/2023 10:00	Effluent Grab	Pesticides	Fludioxonil	0.10 UQ	ng/L	0.10	0.50
10/9/2023 10:00	Effluent Grab	Pesticides	Metolachlor	0.75 UQ	ng/L	0.75	3.7
10/9/2023 10:00	Effluent Grab	Pesticides	Terbuthylazine	0.20 UQ	ng/L	0.20	1.0
10/9/2023 10:00	Effluent Grab	Pesticides	Sucralose	0.36	µg/L	0.010	0.040
10/9/2023 10:00	Effluent Grab	Pesticides	Cyanazine	5.0 UQ	ng/L	5.0	25

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
10/9/2023 10:00	Effluent Grab	Pesticides	Dithiopyr	1.0 UQ	ng/L	1.0	5.0
10/9/2023 10:00	Effluent Grab	Pesticides	Fipronil Sulfide	0.10 UQ	ng/L	0.10	0.50
10/9/2023 10:00	Effluent Grab	Pesticides	Flutolanil	0.10 UQ	ng/L	0.10	0.50
10/9/2023 10:00	Effluent Grab	Pesticides	Mevinphos	1.0 UQ	ng/L	1.0	5.0
10/9/2023 10:00	Effluent Grab	Pesticides	Molinate	0.25 UQJ	ng/L	0.25	1.2
10/9/2023 10:00	Effluent Grab	Pesticides	Pendimethalin	1.7 UQ	ng/L	1.7	8.5
10/9/2023 10:00	Effluent Grab	Pesticides	Propiconazole	0.60 UQ	ng/L	0.60	3.0
10/9/2023 10:00	Effluent Grab	Pesticides	Ametryn	1.1 UQ	ng/L	1.1	5.5
10/9/2023 10:00	Effluent Grab	Pesticides	Azoxystrobin	0.40 UQ	ng/L	0.40	2.0
10/9/2023 10:00	Effluent Grab	Pesticides	Carbophenothion	0.50 UQ	ng/L	0.50	2.5
10/9/2023 10:00	Effluent Grab	Pesticides	Ethion	0.30 UQ	ng/L	0.30	1.5
10/9/2023 10:00	Effluent Grab	Pesticides	Oxyfluorfen	0.20 UQ	ng/L	0.20	1.0
10/9/2023 10:00	Effluent Grab	Pesticides	Tebuconazole	1.4 UQ	ng/L	1.4	7.0
10/9/2023 10:00	Effluent Grab	Pesticides	Azinphos Methyl	3.0 UQ	ng/L	3.0	15
10/9/2023 10:00	Effluent Grab	Pesticides	Chlorpyrifos Methyl	0.10 UQ	ng/L	0.10	0.50
10/9/2023 10:00	Effluent Grab	Pesticides	Fipronil Sulfone	0.10 UQ	ng/L	0.10	0.50
10/9/2023 10:00	Effluent Grab	Pesticides	Imazalil	0.65 UQ	ng/L	0.65	3.2
10/9/2023 10:00	Effluent Grab	Pesticides	Metribuzin	0.40 UQ	ng/L	0.40	2.0
10/9/2023 10:00	Effluent Grab	Pesticides	Prodiamine	0.20 UQ	ng/L	0.20	1.0
10/9/2023 10:00	Effluent Grab	Pesticides	Ibuprofen	0.080 U	µg/L	0.080	0.32
10/9/2023 10:00	Effluent Grab	Pesticides	Naproxen	0.0080 U	µg/L	0.0080	0.032
10/9/2023 10:00	Effluent Grab	Pesticides	Carfentrazone Ethyl	0.15 UQ	ng/L	0.15	0.75
10/9/2023 10:00	Effluent Grab	Pesticides	Diazinon	0.12 UQ	ng/L	0.12	0.62
10/9/2023 10:00	Effluent Grab	Pesticides	Dimethenamid	0.10 UQ	ng/L	0.10	0.50
10/9/2023 10:00	Effluent Grab	Pesticides	Fipronil	0.20 UQ	ng/L	0.20	1.0
10/9/2023 10:00	Effluent Grab	Pesticides	Hexazinone	0.50 UQ	ng/L	0.50	2.5
10/9/2023 10:00	Effluent Grab	Pesticides	Iprodione	0.50 UQ	ng/L	0.50	2.5
10/9/2023 10:00	Effluent Grab	Pesticides	Malathion	0.35 UQ	ng/L	0.35	1.7
10/9/2023 10:00	Effluent Grab	Pesticides	Myclobutanil	0.35 UQ	ng/L	0.35	1.7
10/9/2023 10:00	Effluent Grab	Pesticides	Parathion Ethyl	0.15 UQ	ng/L	0.15	0.75
10/9/2023 10:00	Effluent Grab	Pesticides	Parathion Methyl	0.20 UQ	ng/L	0.20	1.0
10/9/2023 10:00	Effluent Grab	Pesticides	Phorate	0.25 UQ	ng/L	0.25	1.2
10/9/2023 10:00	Effluent Grab	Pesticides	Pronamide	0.10 UQ	ng/L	0.10	0.50
10/9/2023 10:00	Effluent Grab	Pesticides	Pyriproxyfen	0.25 UQ	ng/L	0.25	1.6

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
10/9/2023 10:00	Effluent Grab	Pesticides	Atrazine	1.8 Q	ng/L	0.20	1.0
10/9/2023 10:00	Effluent Grab	Pesticides	Flumioxazin	3.0 UQ	ng/L	3.0	15
10/9/2023 10:00	Effluent Grab	Pesticides	Fonofos	0.15 UQ	ng/L	0.15	0.75
10/9/2023 10:00	Effluent Grab	Pesticides	Prometryn	0.35 UQ	ng/L	0.35	1.7
10/9/2023 10:00	Effluent Grab	Pesticides	Sulfentrazone	1.4 UQ	ng/L	1.4	7.0
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.050 U	µg/L	0.050	0.20
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	2-Chloronaphthalene	0.050 U	µg/L	0.050	0.20
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	2,4-Dinitrotoluene	0.050 U	µg/L	0.050	0.20
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.050 U	µg/L	0.050	0.20
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Benzo(a)anthracene	0.025 U	µg/L	0.025	0.10
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	5.0 U	µg/L	5.0	20
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Diethyl phthalate	2.0 U	µg/L	2.0	8.0
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Isophorone	0.050 U	µg/L	0.050	0.20
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	2-Nitrophenol	0.050 U	µg/L	0.050	0.20
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Anthracene	0.050 U	µg/L	0.050	0.20
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Pyrene	0.10 U	µg/L	0.10	0.40
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.025 U	µg/L	0.025	0.10
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.050 U	µg/L	0.050	0.20
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	3,3'-Dichlorobenzidine	10 U	µg/L	10	40
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Naphthalene	0.10 U	µg/L	0.10	0.40
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Fluoranthene	0.050 U	µg/L	0.050	0.20
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	4-Nitrophenol	10 U	µg/L	10	40
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Acenaphthylene	0.025 U	µg/L	0.025	0.10
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Hexachlorobenzene	0.050 U	µg/L	0.050	0.20
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Hexachlorobutadiene	0.050 U	µg/L	0.050	0.20
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	N-Nitrosodimethylamine	2.0 U	µg/L	2.0	8.0
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	2,4-Dimethylphenol	0.050 U	µg/L	0.050	0.20
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.050 U	µg/L	0.050	0.20
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	2,6-Dinitrotoluene	0.050 U	µg/L	0.050	0.20
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Benzidine	10 U	µg/L	10	40
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Benzo(a)pyrene	0.025 U	µg/L	0.025	0.10
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.025 U	µg/L	0.025	0.10
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Nitrobenzene	0.050 U	µg/L	0.050	0.20
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Pentachlorophenol	0.50 U	µg/L	0.50	2.0

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Dimethyl phthalate	0.20 U	µg/L	0.20	0.80
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Fluorene	0.025 U	µg/L	0.025	0.10
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.050 U	µg/L	0.050	0.20
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.050 U	µg/L	0.050	0.20
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Benzo(b)fluoranthene	0.025 U	µg/L	0.025	0.10
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.050 U	µg/L	0.050	0.20
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.050 U	µg/L	0.050	0.20
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Phenanthrene	0.10 U	µg/L	0.10	0.40
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Butyl benzyl phthalate	1.0 U	µg/L	1.0	4.0
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Di-n-octyl phthalate	0.050 U	µg/L	0.050	0.20
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Hexachloroethane	0.050 U	µg/L	0.050	0.20
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.025 U	µg/L	0.025	0.10
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	2-Chlorophenol	0.050 U	µg/L	0.050	0.20
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Benzo(k)fluoranthene	0.025 U	µg/L	0.025	0.10
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Chrysene	0.025 U	µg/L	0.025	0.10
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.050 U	µg/L	0.050	0.20
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Di-n-butyl phthalate	2.0 U	µg/L	2.0	8.0
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.050 U	µg/L	0.050	0.20
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.0 U	µg/L	3.0	12
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	2,4-Dichlorophenol	0.050 U	µg/L	0.050	0.20
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	2,4-Dinitrophenol	10 U	µg/L	10	40
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Acenaphthene	0.025 U	µg/L	0.025	0.10
10/9/2023 10:00	Effluent Grab	Priority Organic Pollutants	Phenol	0.050 U	µg/L	0.050	0.20
10/9/2023 10:00	Effluent Grab	Nutrients	Specific Conductance	56,432.00	µmhos/cm	-	-
10/9/2023 10:00	Effluent Grab	Nutrients	pH	7.88	SU	-	-
10/9/2023 10:00	Effluent Grab	Nutrients	Sample Depth	0.75	m	-	-
10/9/2023 10:00	Effluent Grab	Nutrients	Dissolved Oxygen %Sat	63.3	%Sat	-	-
10/9/2023 10:00	Effluent Grab	Nutrients	Temperature	24.7	C	-	-
10/9/2023 10:45	Field Blank	Metals	Calcium	0.075 U	mg/L	0.075	0.30
10/9/2023 10:45	Field Blank	Metals	Nickel	0.50 U	µg/L	0.50	2.0
10/9/2023 10:45	Field Blank	Metals	Aluminum	5.0 U	µg/L	5.0	20
10/9/2023 10:45	Field Blank	Metals	Cadmium	0.020 U	µg/L	0.020	0.080
10/9/2023 10:45	Field Blank	Metals	Copper	0.51 I	µg/L	0.40	0.80
10/9/2023 10:45	Field Blank	Metals	Lead	0.20 U	µg/L	0.20	0.40

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
10/9/2023 10:45	Field Blank	Metals	Silver	0.010 U	µg/L	0.010	0.040
10/9/2023 10:45	Field Blank	Metals	Chromium	1.0 U	µg/L	1.0	4.0
10/9/2023 10:45	Field Blank	Metals	Magnesium	0.040 U	mg/L	0.040	0.16
10/9/2023 10:45	Field Blank	Metals	Sodium	0.50 U	mg/L	0.50	2.0
10/9/2023 10:45	Field Blank	Metals	Selenium	0.20 U	µg/L	0.20	0.80
10/9/2023 10:45	Field Blank	Metals	Potassium	0.30 U	mg/L	0.30	1.2
10/9/2023 10:45	Field Blank	Metals	Zinc	5.0 U	µg/L	5.0	20
10/9/2023 10:45	Field Blank	Metals	Arsenic	0.050 U	µg/L	0.050	0.20
10/9/2023 10:45	Field Blank	Metals	Iron	30 U	µg/L	30	120
10/9/2023 10:45	Field Blank	Nutrients	Chloride	0.20 U	mg Cl/L	0.20	0.50
10/9/2023 10:45	Field Blank	Nutrients	Ammonia-N	0.003 I	mg N/L	0.0020	0.0050
10/9/2023 10:45	Field Blank	Nutrients	Total-P	0.002 U	mg P/L	0.0020	0.0050
10/9/2023 10:45	Field Blank	Nutrients	O-Phosphate-P	0.007 I	mg P/L	0.0040	0.010
10/9/2023 10:45	Field Blank	Nutrients	Organic Carbon	0.92 I	mg C/L	0.50	1.0
10/9/2023 10:45	Field Blank	Nutrients	Color (true)	2.5 U	PCU	2.5	6.0
10/9/2023 10:45	Field Blank	Nutrients	Turbidity	0.10 U	NTU	0.10	1.0
10/9/2023 10:45	Field Blank	Nutrients	Fluoride	0.025 U	mg F/L	0.025	0.10
10/9/2023 10:45	Field Blank	Nutrients	Sulfate	0.20 U	mg SO4/L	0.20	0.50
10/9/2023 10:45	Field Blank	Nutrients	NO2NO3-N	0.004 U	mg N/L	0.0040	0.010
10/9/2023 10:45	Field Blank	Nutrients	Kjeldahl Nitrogen	0.080 U	mg N/L	0.080	0.20
10/9/2023 10:45	Field Blank	Nutrients	Total Alkalinity	0.65 U	mg CaCO3/L	0.65	2.5
10/9/2023 10:45	Field Blank	Pesticides	Ethoprop	0.13 U	ng/L	0.13	0.64
10/9/2023 10:45	Field Blank	Pesticides	Fipronil Sulfide	0.10 U	ng/L	0.10	0.52
10/9/2023 10:45	Field Blank	Pesticides	Carfentrazone Ethyl	0.15 U	ng/L	0.15	0.77
10/9/2023 10:45	Field Blank	Pesticides	Sucralose	0.010 U	µg/L	0.010	0.040
10/9/2023 10:45	Field Blank	Pesticides	Propiconazole	0.62 U	ng/L	0.62	3.1
10/9/2023 10:45	Field Blank	Pesticides	Metalaxyl	0.52 U	ng/L	0.52	2.6
10/9/2023 10:45	Field Blank	Pesticides	Mevinphos	1.0 U	ng/L	1.0	5.2
10/9/2023 10:45	Field Blank	Pesticides	Naled	2.6 U	ng/L	2.6	13
10/9/2023 10:45	Field Blank	Pesticides	Prometon	3.1 U	ng/L	3.1	15
10/9/2023 10:45	Field Blank	Pesticides	Fipronil	0.21 U	ng/L	0.21	1.0
10/9/2023 10:45	Field Blank	Pesticides	Fenamiphos	0.46 U	ng/L	0.46	2.3
10/9/2023 10:45	Field Blank	Pesticides	Hexazinone	0.52 U	ng/L	0.52	2.6
10/9/2023 10:45	Field Blank	Pesticides	Atrazine	0.21 U	ng/L	0.21	1.0

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
10/9/2023 10:45	Field Blank	Pesticides	Azinphos Methyl	3.1 U	ng/L	3.1	15
10/9/2023 10:45	Field Blank	Pesticides	Chlorpyrifos Ethyl	0.31 U	ng/L	0.31	1.5
10/9/2023 10:45	Field Blank	Pesticides	Cyanazine	5.2 U	ng/L	5.2	26
10/9/2023 10:45	Field Blank	Pesticides	Dimethenamid	0.10 U	ng/L	0.10	0.52
10/9/2023 10:45	Field Blank	Pesticides	Metolachlor	0.77 U	ng/L	0.77	3.9
10/9/2023 10:45	Field Blank	Pesticides	Ibuprofen	0.080 U	µg/L	0.080	0.32
10/9/2023 10:45	Field Blank	Pesticides	Iprodione	0.52 U	ng/L	0.52	2.6
10/9/2023 10:45	Field Blank	Pesticides	Molinate	0.26 U	ng/L	0.26	1.3
10/9/2023 10:45	Field Blank	Pesticides	Fenbuconazole	0.52 U	ng/L	0.52	2.6
10/9/2023 10:45	Field Blank	Pesticides	Fipronil Desulfinyl	0.10 U	ng/L	0.10	0.52
10/9/2023 10:45	Field Blank	Pesticides	Fluazifop-P-butyl	0.10 U	ng/L	0.10	0.52
10/9/2023 10:45	Field Blank	Pesticides	Flumioxazin	3.1 U	ng/L	3.1	15
10/9/2023 10:45	Field Blank	Pesticides	Azoxystrobin	0.41 U	ng/L	0.41	2.1
10/9/2023 10:45	Field Blank	Pesticides	Pyriproxyfen	0.26 U	ng/L	0.26	1.6
10/9/2023 10:45	Field Blank	Pesticides	Terbuthylazine	0.21 U	ng/L	0.21	1.0
10/9/2023 10:45	Field Blank	Pesticides	Malathion	0.36 U	ng/L	0.36	1.8
10/9/2023 10:45	Field Blank	Pesticides	Metribuzin	0.41 U	ng/L	0.41	2.1
10/9/2023 10:45	Field Blank	Pesticides	Myclobutanil	0.36 U	ng/L	0.36	1.8
10/9/2023 10:45	Field Blank	Pesticides	Pendimethalin	0.77 U	ng/L	0.77	3.9
10/9/2023 10:45	Field Blank	Pesticides	Dithiopyr	1.0 U	ng/L	1.0	5.2
10/9/2023 10:45	Field Blank	Pesticides	Fonofos	0.15 U	ng/L	0.15	0.77
10/9/2023 10:45	Field Blank	Pesticides	Bromacil	0.62 U	ng/L	0.62	3.1
10/9/2023 10:45	Field Blank	Pesticides	Carbophenothion	0.52 U	ng/L	0.52	2.6
10/9/2023 10:45	Field Blank	Pesticides	Ethion	0.31 U	ng/L	0.31	1.5
10/9/2023 10:45	Field Blank	Pesticides	Pronamide	0.10 U	ng/L	0.10	0.52
10/9/2023 10:45	Field Blank	Pesticides	Sulfentrazone	1.4 U	ng/L	1.4	7.2
10/9/2023 10:45	Field Blank	Pesticides	Norflurazon	1.0 U	ng/L	1.0	5.2
10/9/2023 10:45	Field Blank	Pesticides	Parathion Methyl	0.21 U	ng/L	0.21	1.0
10/9/2023 10:45	Field Blank	Pesticides	Flutolanil	0.10 U	ng/L	0.10	0.52
10/9/2023 10:45	Field Blank	Pesticides	Chlorpyrifos Methyl	0.10 U	ng/L	0.10	0.52
10/9/2023 10:45	Field Blank	Pesticides	Difenoconazole	0.62 UJ	ng/L	0.62	3.1
10/9/2023 10:45	Field Blank	Pesticides	Disulfoton	0.62 U	ng/L	0.62	3.1
10/9/2023 10:45	Field Blank	Pesticides	Naproxen	0.0080 U	µg/L	0.0080	0.032
10/9/2023 10:45	Field Blank	Pesticides	Prometryn	0.36 U	ng/L	0.36	1.8

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
10/9/2023 10:45	Field Blank	Pesticides	Tebuconazole	1.4 U	ng/L	1.4	7.2
10/9/2023 10:45	Field Blank	Pesticides	Parathion Ethyl	0.15 U	ng/L	0.15	0.77
10/9/2023 10:45	Field Blank	Pesticides	Prodiamine	0.21 U	ng/L	0.21	1.0
10/9/2023 10:45	Field Blank	Pesticides	EPTC	0.52 U	ng/L	0.52	2.6
10/9/2023 10:45	Field Blank	Pesticides	Fipronil Sulfone	0.10 U	ng/L	0.10	0.52
10/9/2023 10:45	Field Blank	Pesticides	Fludioxonil	0.10 U	ng/L	0.10	0.52
10/9/2023 10:45	Field Blank	Pesticides	Imazalil	0.67 U	ng/L	0.67	3.4
10/9/2023 10:45	Field Blank	Pesticides	Fluxapyroxad	0.26 U	ng/L	0.26	1.3
10/9/2023 10:45	Field Blank	Pesticides	Acetochlor	0.21 U	ng/L	0.21	1.0
10/9/2023 10:45	Field Blank	Pesticides	Alachlor	0.41 U	ng/L	0.41	2.1
10/9/2023 10:45	Field Blank	Pesticides	Ametryn	1.1 U	ng/L	1.1	5.7
10/9/2023 10:45	Field Blank	Pesticides	Atrazine Desethyl	1.3 U	ng/L	1.3	6.7
10/9/2023 10:45	Field Blank	Pesticides	Butylate	0.46 U	ng/L	0.46	2.3
10/9/2023 10:45	Field Blank	Pesticides	Demeton	3.6 U	ng/L	3.6	18
10/9/2023 10:45	Field Blank	Pesticides	Diazinon	0.13 U	ng/L	0.13	0.64
10/9/2023 10:45	Field Blank	Pesticides	Simazine	0.26 U	ng/L	0.26	1.3
10/9/2023 10:45	Field Blank	Pesticides	Terbufos	0.21 U	ng/L	0.21	1.0
10/9/2023 10:45	Field Blank	Pesticides	Oxadiazon	0.36 U	ng/L	0.36	1.8
10/9/2023 10:45	Field Blank	Pesticides	Oxyfluorfen	0.21 U	ng/L	0.21	1.0
10/9/2023 10:45	Field Blank	Pesticides	Phorate	0.26 U	ng/L	0.26	1.3
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	2-Nitrophenol	0.051 U	µg/L	0.051	0.20
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	5.1 U	µg/L	5.1	20
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Hexachlorobutadiene	0.051 U	µg/L	0.051	0.20
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Hexachloroethane	0.051 U	µg/L	0.051	0.20
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Phenanthrene	0.10 U	µg/L	0.10	0.41
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.051 U	µg/L	0.051	0.20
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.051 U	µg/L	0.051	0.20
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Benzo(b)fluoranthene	0.026 U	µg/L	0.026	0.10
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Butyl benzyl phthalate	1.0 U	µg/L	1.0	4.1
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Fluoranthene	0.051 U	µg/L	0.051	0.20
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Hexachlorobenzene	0.051 U	µg/L	0.051	0.20
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	2-Chlorophenol	0.051 U	µg/L	0.051	0.20
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Acenaphthylene	0.026 U	µg/L	0.026	0.10
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Benzidine	10 U	µg/L	10	41

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Benzo(a)pyrene	0.026 U	µg/L	0.026	0.10
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.051 U	µg/L	0.051	0.20
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	2-Chloronaphthalene	0.051 U	µg/L	0.051	0.20
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.1 U	µg/L	3.1	12
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	4-Nitrophenol	10 U	µg/L	10	41
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Benzo(a)anthracene	0.026 U	µg/L	0.026	0.10
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Chrysene	0.026 U	µg/L	0.026	0.10
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.051 U	µg/L	0.051	0.20
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	N-Nitrosodimethylamine	2.0 U	µg/L	2.0	8.2
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	2,6-Dinitrotoluene	0.051 U	µg/L	0.051	0.20
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.051 U	µg/L	0.051	0.20
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Acenaphthene	0.026 U	µg/L	0.026	0.10
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Anthracene	0.051 U	µg/L	0.051	0.20
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.051 U	µg/L	0.051	0.20
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Di-n-butyl phthalate	2.0 U	µg/L	2.0	8.2
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Di-n-octyl phthalate	0.051 U	µg/L	0.051	0.20
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.026 U	µg/L	0.026	0.10
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.051 U	µg/L	0.051	0.20
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Naphthalene	0.10 U	µg/L	0.10	0.41
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Pentachlorophenol	0.51 U	µg/L	0.51	2.0
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Phenol	0.051 U	µg/L	0.051	0.20
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	2,4-Dichlorophenol	0.051 U	µg/L	0.051	0.20
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	2,4-Dinitrotoluene	0.051 U	µg/L	0.051	0.20
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.051 U	µg/L	0.051	0.20
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Benzo(k)fluoranthene	0.026 U	µg/L	0.026	0.10
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Dimethyl phthalate	1.6	µg/L	0.20	0.82
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.026 U	µg/L	0.026	0.10
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Nitrobenzene	0.051 U	µg/L	0.051	0.20
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Pyrene	0.10 U	µg/L	0.10	0.41
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	2,4-Dimethylphenol	0.051 U	µg/L	0.051	0.20
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	2,4-Dinitrophenol	10 U	µg/L	10	41
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.026 U	µg/L	0.026	0.10
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Diethyl phthalate	2.0 U	µg/L	2.0	8.2
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Isophorone	0.051 U	µg/L	0.051	0.20

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.051 U	µg/L	0.051	0.20
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	3,3'-Dichlorobenzidine	10 U	µg/L	10	41
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.051 U	µg/L	0.051	0.20
10/9/2023 10:45	Field Blank	Priority Organic Pollutants	Fluorene	0.026 U	µg/L	0.026	0.10