Effluent Quality Assessment of City of Tampa-Howard F Curren AWWTP Hillsborough County NPDES # FL0020940 Sampled November 18, 2024

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

Some nutrient samples were qualified because shipping delays caused samples to arrive late or outside the acceptable temperature range. The effluent sample was not toxic to the marine organisms tested. The marine algal growth potential (AGP) and nutrient results do not suggest a potential for nutrient enrichment of the receiving waters. There were 18 organic constituents detected in the effluent grab sample.

Facility Overview

The City of Tampa-Howard F Curren Advanced Wastewater Treatment Plant is a domestic wastewater treatment facility. A Facility Summary, including a description of the facility, summary of permit limits, and any relevant Administrative Order (AO), Consent Order (CO), and Discharge Monitoring Report (DMR) information is provided in Appendix A. The facility is under a Short Form Consent Order – OGC File No. 22-2071. The effluent is continuously discharged into Hillsborough Bay, a Class III Marine Water [waterbody identification (WBID) 1558E] (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 arithmetic 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 fifth year inspection (FYI) event only provides single sample results. It should be noted that waterbody impairment assessments are based on longer-term data, and individual exceedances of a criterion do not indicate use impairment.
http://ca.dep.state.fl.us/mapdirect/?focus=nutrientcriteria

Methods

Effluent grab and 24-hour flow proportioned composite samples were collected from monitoring site location EFA-01, for outfall D-001, on November 18, 2024. The permit specifies freshwater organisms for the toxicity bioassays; marine tests were requested and performed.

Samples were collected by Emmalise Hunter, Maggie Kratzer, and Alexandra Myers (Southwest District). Analyses were performed by Eurofins Environmental Testing in Orlando, Benchmark EnviroAnalytical, Inc. in Palmetto, and the 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.

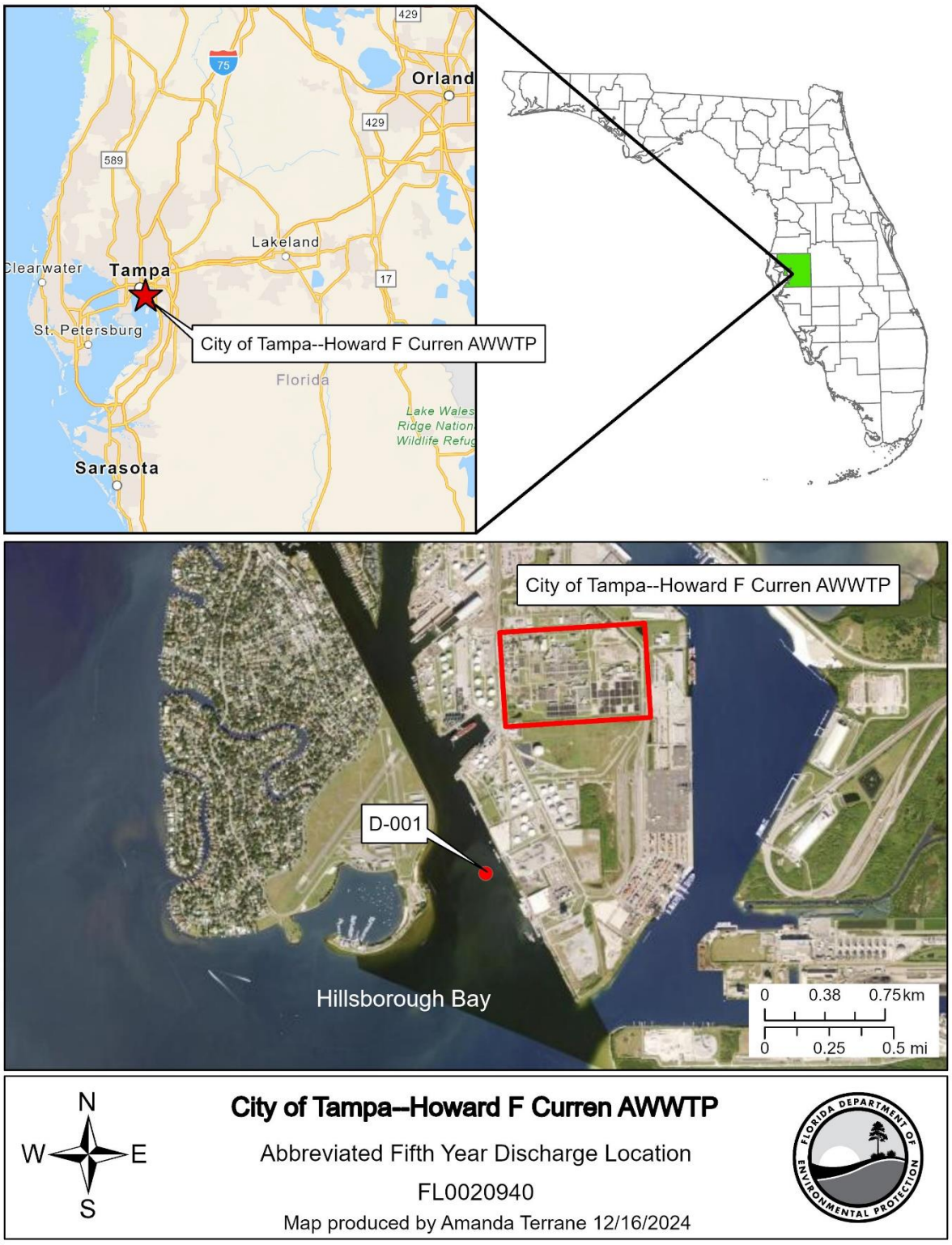


Figure 1. Map of Facility and Discharge Location

Results

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

- The dissolved oxygen measured at EFA-01 was below the minimum dissolved oxygen effluent permit limit for EFD-01.

Analytical Water Chemistry (See Table 2 and Appendix D)

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

- Results for total phosphorus, nitrate and nitrite, total kjeldahl nitrogen, and total suspended solids were Y qualified. Samples arrived out of the acceptable temperature range due to shipping delays.

- The ortho-phosphate result was Q qualified for being held beyond the normal holding time due to shipping delays.

- Ortho-phosphate and total organic carbon were detected in the field blank between the method detection limit (MDL) and practical quantitation limit (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.

- Effluent fecal coliform levels complied with the effluent permit limit.

Toxicity Whole Effluent Test (See Table 2)

- Tests were performed November 19 through November 23, 2024.

- 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 5% 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.

- Total residual chlorine (TRC) was detected in the bioassay sample in the laboratory at 0.53 mg/L. An aliquot of this sample was dechlorinated by the addition of sodium thiosulfate (0.025 N) at a rate of 0.6 mL per liter of sample to neutralize the chlorine. Bioassays were performed on the dechlorinated aliquot in addition to the bioassays performed on the original sample. The same concentration of sodium thiosulfate was added to the dechlorinated test controls. The purpose of the dechlorinated test controls was to confirm that there was no adverse effect of adding sodium thiosulfate to the sample. There was no mortality in the dechlorinated controls of either test species.

- Aliquots of the bioassay sample were salinity-adjusted according to method requirements from an apparent salinity of approximately 1 parts per thousand (ppth) to a salinity of approximately 20 ppth for the *Americamysis bahia* test and to a salinity of approximately 5 ppth for the *Menidia beryllina test*. Control mortality was within method acceptance criteria.

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

Metals (See Table 3 and Appendix D)

- Effluent metals complied with Class III Water Quality Criteria for Marine Waters. There are no effluent permit limits for metals at EFA-01.

Algal Growth Potential (See Table 4 and Appendix B)

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

- An aliquot of the AGP sample was salinity adjusted from an apparent salinity of approximately 1 part per thousand (ppth) to a salinity of approximately 6.9 ppth by the addition of marine mix salt to meet the salinity requirements of the test species *Dunaliella tertiolecta*.

Organic Constituents (See Table 5 and Appendix D)

- Atrazine (herbicide), azoxystrobin (fungicide), chlorfenapyr (insecticide), fipronil desulfinyl (insecticide), fipronil sulfide (insecticide), fludioxonil (fungicide), flutolanil (fungicide), loratadine (antihistamine), oxadiazon (herbicide), phenytoin (anti-seizure), propiconazole (fungicide), simazine (herbicide), sulfentrazone (herbicide), tebuconazole (fungicide), bromodichloromethane (chemical manufacture), bromoform (solvent), chloroform (solvent), and dibromochloromethane (chemical manufacture) 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 Marine Waters, and field parameters

Parameter	Units	Class III Criteria	Effluent Permit Limits	Effluent EFA-01
Temperature	C	-	-	28.4
pH	SU	6.5 - 8.5	6.5 - 8.5 (EFD-01)	7.3
Specific Conductance	µmhos/cm	-	-	2,049
Salinity	ppt	-	-	1 c
Dissolved Oxygen	% saturation	≥ 42	-	60.8
Dissolved Oxygen	mg/L	-	≥ 5.0 (EFD-01)	4.7

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

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

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

Analyte	Units	Class III Criteria	Effluent Permit Limits	Effluent Composite EFA-01	Effluent Grab EFA-01
Ortho-phosphate[1]	mg P/L	-	-	-	2.2 Q
Total Phosphorus	mg P/L	-	Report	2.5 Y	2.5
Total Ammonia Nitrogen	mg N/L	-	-	-	0.049
Un-ionized Ammonia (calc. salinity)	mg N/L	-	-	-	< 0.02 c
Nitrate and Nitrite	mg N/L	-	-	1.2 Y	1.4
Total Kjeldahl Nitrogen	mg N/L	-	-	1.0 Y	1.0
Organic Nitrogen	mg N/L	-	-	-	1 c
Total Nitrogen	mg N/L	-	≤ 6.0 sp	2.2 c	2.4 c
Total Organic Carbon[1]	mg C/L	-	-	-	8.5
Chlorophyll *a* - Corrected	µg/L	≤ 15.0 a	-	-	0.93 U
Phaeophytin	µg/L	-	-	-	1.0 U
CBOD, 5 day, N - inhibited	mg/L	-	≤ 10.0 sp	3.9	-
Hardness	mg CaCO3/L	-	-	-	285 c
Total Suspended Solids	mg/L	-	≤ 5.0 s (EFB-01)	2 IY	3 I
Turbidity	NTU	≤ 29 t	-	-	0.80 IA
Color (true)	PCU	-	-	-	8.3 A
Alkalinity	mg CaCO3/L	-	-	-	161
Chloride	mg Cl/L	-	-	-	210
Fluoride	mg F/L	≤ 5.0	-	-	0.66
Sulfate	mg SO4/L	-	-	-	520
Fecal Coliforms	cfu/100 mL	-	≤ 25 s	-	10 U
Escherichia coli	MPN/100 mL	-	-	-	10 U
Enterococci	MPN/100 mL	≤ 130	≤ 130	-	10 U
Bioassay - Mysid *(A. bahia)*[2]	% effluent	-	≥ 100 (EFD-01)	-	> 100
Bioassay - Fish *(M. beryllina)*[2]	% effluent	-	≥ 100 (EFD-01)	-	> 100

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
a – Annual average
c - Value is calculated
p- 24-hour flow proportioned composite
s- Single sample
t- Shall not exceed 29 NTUs above background
A - Value reported is the mean of two or more determinations

I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
Q - Sample held beyond normal holding time
U - Material analyzed for but not detected; value reported is the method detection limit
Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
1 - Analyte detected in the field blank
2- Permit specifies freshwater organisms *Ceriodaphnia dubia* and *Pimephales promelas* for the toxicity bioassays

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 Composite EFA-01	Effluent Grab EFA-01
Aluminum	µg/L	≤ 1,500	-	-	14 I
Arsenic	µg/L	≤ 50	-	-	1.31
Cadmium	µg/L	≤ 8.8	-	-	0.020 U
Calcium	mg/L	-	-	-	93.2
Chromium, Total [3]	µg/L	≤ 50	-	-	0.45 I
Copper	µg/L	≤ 3.7	≤ 3.7 sp (EFD-01)	1.89	1.62
Iron	µg/L	≤ 300	-	-	52 I
Lead	µg/L	≤ 8.5	-	-	0.20 U
Magnesium	mg/L	-	-	-	12.7
Nickel	µg/L	≤ 8.3	-	-	2.0 I
Potassium	mg/L	-	-	-	15.4
Selenium	µg/L	≤ 71	-	-	3.22
Silver	µg/L	≤ 2.3	-	-	0.010 U
Sodium	mg/L	-	-	-	354
Zinc	µg/L	≤ 86	-	-	7.1 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
U - Material analyzed for but not detected; value reported is the method detection limit
3 - Class III Marine Water Quality Criterion (62-302.530(19)(b), F.A.C.) is for chromium-VI

Table 4. Algal Growth Potential (AGP)

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

Location	Test Species	AGP (measured)	Predicted AGP (TSIN) ± 20%	Predicted AGP (OP) ± 20%	Predicted AGP (TN) ± 20%	Predicted AGP (TP) ± 20%	Inorganic N:P ratio	Total N:P ratio
Effluent Grab	*Dunaliella tertiolecta*	3.0 U *	not applicable [3]	not applicable [3]	not applicable [3]	not applicable [3]	0.7	1

* - sample salinity adjusted to 6.9 ppth

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

3 - predictions not applicable to marine matrix

Table 5. Detected Organic Constituents

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

Analyte	Units	Class III Criteria	Effluent Permit Limits	Effluent Grab EFA-01
Atrazine	ng/L	-	-	17
Azoxystrobin	ng/L	-	-	8.8
Chlorfenapyr	ng/L	-	-	1.8
Fipronil Desulfinyl	ng/L	-	-	0.17 I
Fipronil Sulfide	ng/L	-	-	0.64
Fludioxonil	ng/L	-	-	0.35 I
Flutolanil	ng/L	-	-	0.33 I
Loratadine	ng/L	-	-	4.1
Oxadiazon	ng/L	-	-	0.37 I
Phenytoin	ng/L	-	-	11 I
Propiconazole	ng/L	-	-	7.2
Simazine	ng/L	-	-	15
Sulfentrazone	ng/L	-	-	9.5
Tebuconazole	ng/L	-	-	4.8 I
Bromodichloromethane	µg/L	-	Report	78
Bromoform	µg/L	-	-	15
Chloroform	µg/L	-	-	51
Dibromochloromethane	µg/L	-	Report	72

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: Emmalise Hunter	Contact Number: 813-470-5787
Facility Name (as it appears on permit): City of Tampa – Howard F Curren Advanced Wastewater Treatment Plant (AWWTP)	Former Names: N/A
NPDES Permit Number: FL0020940	Permit Expiration Date: March 8, 2026
Physical Address: 2700 Maritime Blvd, Tampa, FL 33605-6744	
District: Southwest	County: Hillsborough
Function of Facility: An existing 96.0 million gallon per day (MGD) annual average daily flow (AADF), Type I AWWTP, two-stage, high rate (pure oxygen and fine bubble aeration) activated sludge biological nitrification/denitrification domestic wastewater treatment plant.	
Facility Type: Domestic Wastewater	Permitted Capacity (MGD): 96.0
Mean Flow for previous 12 months for all EXTERNAL outfalls listed in permit (list date range including months): (07/01/2023-07/31/2024) D-001 FLW-05: 54.4 MGD D-002 FLW-06: 0.0645 MGD D-003 FLW-07: 0.0546 MGD	
If applicable, Mean Flow for previous 12 months for REUSE outfall(s) (list date range including months): (07/01/2023-07/31/2024) R-001 FLW-01: 3.6 MGD R-002 FLW-02: 0.2 MGD	

R-003

FLW-03: 3.94 MGD

Description of type of Discharge:

☒ Continuous ☐ Intermittent ☐ Seasonal ☐ Rainfall Dependent

☐ Other, please specify:

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

Effluent Sampling: Samples will be collected from EFD-01, EFA-01, and EFB-01

Monitoring Site Number	Description of Monitoring Site
FLW-05	Flow from D-001 to Hillsborough Bay (FLW-05 = FLW-04 – FLW-07 - FLW-06 – FLW-02 – FLW-01)
FLW-01	Flow to City of Tampa Public Access Reuse System - R-001
FLW-02	Flow to City of Tampa Refuse to Energy Facility (McKay Bay Facility) R-002
FLW-04	Total plant flow measured at the headworks
FLW-06	Flow from D-002 to Hillsborough Bay (metered)
FLW-07	Flow from D-003 to Hillsborough Bay (metered)
EFA-01	After disinfection and prior to discharge to R-001, R-002, and R-003
EFB-01	after filtration and prior to disinfection
EFD-01	After dechlorination and prior to discharge to Hillsborough Bay

Reclaim Sampling:

Monitoring Site Number	Description of Monitoring Site
FLW-01	Flow to City of Tampa Public Access Reuse System - R-001
FLW-02	Flow to City of Tampa Refuse to Energy Facility (McKay Bay Facility) R-002
EFA-01	After disinfection and prior to discharge to R-001, R-002, and R-003.
EFB-01	Turbidity and TSS monitoring point after filtration and prior to disinfection.
EFD-01	After dechlorination and prior to discharge to Hillsborough Bay.

Influent Sampling:

Monitoring Site Number	Description of Monitoring Site
FLW-04	Total plant flow measured at the headworks.
INF-01	at headworks, prior to primary treatment

Description of Permitted Outfall(s):

Surface Water Discharge D-001: An existing 96.0 MGD annual average daily flow (AADF) discharge to Hillsborough Bay (Upper), Class III Marine waters, (WBID# 1558E) which is approximately 141 feet in length and discharges at a depth of approximately 29.1 feet. The point of discharge is located approximately at latitude 27□54' 41" N, longitude 82□26' 27" W.

Surface Water Discharge D-002: An existing intermittent discharge to Ybor Channel, Class III Marine waters, (WBID# 1584A2) which discharges at a depth of approximately 4.5 feet. Ybor Channel flows into WBID 1558E of Hillsborough Bay (Upper). Outfall D-002 shall only discharge as result of flows to the treatment plant in excess of approximately 100 MGD coupled with extreme high tide conditions. The point of discharge is located approximately at latitude 27□55' 12" N, longitude 82□26' 31" W.

Surface Water Discharge D-003: An existing intermittent discharge to Ybor Channel, Class III Marine waters, (WBID# 1584A2) which discharges at a depth of approximately 6.8 feet. Ybor Channel flows into WBID 1558E of Hillsborough Bay (Upper). Outfall D-003 shall only discharge as result of flows to the treatment plant in excess of approximately 100 MGD coupled with extreme high tide conditions. The point of discharge is located approximately at latitude 27□55' 12" N, longitude 82□26' 31" W.

Mixing zone: Pursuant to Rule 62-4.244, F.A.C., the permittee is hereby granted a mixing zone for Dichlorobromomethane and Dibromochloromethane for the effluent discharge at Outfalls D-001, D-002 and D-003. The permittee's discharge shall not cause a violation of the Chapter 62-302, F.A.C., Class III Water Quality Standards outside the boundaries of the mixing zones described below.

The mixing zone for Dichlorobromomethane has a circular area of 17 meters radius, with a total surface area of 908 square meters, centered over the outfall(s). The mixing zone for Dibromochloromethane has a circular area of 14 meters radius, with a total surface area of 616 square meters, centered over the outfall(s). These mixing zones include the entire water column from the surface to the bottom and otherwise complies with the physical requirements of Rule 62-4.244, F.A.C.

Land Application R-001: An existing 6.0 MGD AADF permitted capacity Part III slow-rate public access system (City of Tampa Public Access Reuse System) as described in detail in Permit Condition IV.A.2 which generally include the consisting of the City of Tampa service area.

Industrial Reuse R-002: An existing 2.3 MGD AADF permitted capacity Part VII industrial reuse system providing Part III quality reclaimed water for use as cooling water and minor irrigation at the City of Tampa Refuse to Energy Facility (McKay Bay Facility). R-002 is located approximately at latitude 27□56' 56" N, longitude 82□25' 19" W.

Industrial Reuse R-003: An existing industrial reuse system providing secondary treatment reclaimed water to a closed-loop system for heating purposes at Mosaic Fertilizer, LLC (Formerly CF Industries). R-003 is located approximately at latitude 27º 55' 02" N, longitude 82º 26' 14" W.

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

BEFORE MODIFICATION:

An existing 96.0 million gallons per day (MGD) Annual Average Daily Flow (AADF) permitted capacity Type I two-stage, high rate (pure oxygen and fine bubble aeration) activated sludge biological nitrification/denitrification domestic wastewater treatment plant. The facility has the capability to operate in several modes as described in the submitted basis of design. The facility includes the following units: Pre-aeration with odor control, mechanical screening and grit removal, primary sedimentation tanks, pure oxygen reactors, carbonaceous sedimentation tanks, nitrification reactors, final sedimentation tanks, coarse sand denitrification filters, chlorine contact chambers with post aeration, and dechlorination facilities. This plant is operated to achieve Advanced Wastewater Treatment (AWT), with high-level disinfected and dechlorinated effluent discharged to Hillsborough Bay.

The biosolids treatment facility consists of gravity sludge thickeners, anaerobic digesters, sludge storage tanks, belt filter presses, and sludge drying beds and other associated facilities. Biosolids generated by this facility are stabilized to meet Class B biosolids.

MODIFICATION:

Upgrades made to the dewatering process, which include the replacement of existing belt filter presses with centrifuges, new dewatering building with climate controlled electrical room, new sludge feed pumps, new polymer system, upgraded electrical and instrumentation, and a new sludge storage and handling area.

AFTER MODIFICATION:

An existing 96.0 million gallons per day (MGD) Annual Average Daily Flow (AADF) permitted capacity Type I two-stage, high rate (pure oxygen and fine bubble aeration) activated sludge biological nitrification/denitrification domestic wastewater treatment plant. The facility has the capability to operate in several modes as described in the submitted basis of design. The facility includes the following units: Pre-aeration with odor control, mechanical screening and grit removal, primary sedimentation tanks, pure oxygen reactors, carbonaceous sedimentation tanks , nitrification reactors, final sedimentation tanks, coarse sand denitrification filters, chlorine contact chambers with post aeration, and dechlorination facilities. This plant is operated to achieve Advanced Wastewater Treatment (AWT), with high-level disinfected and dechlorinated effluent discharged to Hillsborough Bay.

The biosolids treatment facility consists of gravity sludge thickeners, anaerobic digesters, sludge storage tanks, high solids centrifuges and supporting equipment (sludge transfer pump, polymer equipment,

conveyor), sludge drying beds and other associated facilities. Biosolids generated by this facility are stabilized to meet Class B biosolids.

PART I: Continued

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

		Effluent Limitations			Monitoring Requirements			
Parameter	Units	Max. /Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
BOD, Carbonaceous 5 day, 20C	mg/L	Max Max Max	6.25 7.5 10.0	Monthly Average Weekly Average Single Sample	Daily; 24 hours	24-hr FPC	EFA-01	See I.A.6
Solids, Total Suspended	mg/L	Max	5.0	Single Sample	Daily; 24 hours	Grab	EFB-01	See I.A.6
Nitrogen, Total	mg/L	Max Max Max	3.75 4.5 6.0	Monthly Average Weekly Average Single Sample	Daily; 24 hours	24-hr FPC	EFA-01	
Phosphorus, Total (as P)	mg/L	Max Max	Report Report	Monthly Average Single Sample	Weekly	24-hr FPC	EFA-01	
pH	s.u.	Min Max	6.5 8.5	Single Sample Single Sample	Continuous	Meter	EFD-01	See I.A.3
Coliform, Fecal	#/100mL	Max	25	Single Sample	Daily; 24 hours	Grab	EFA-01	
Oxygen, Dissolved (DO)	mg/L	Min	5.0	Single Sample	Daily; 24 hours	Grab	EFD-01	
Enterococci	#/100mL	Max Max	35 130	Monthly Geometric Mean 90th Percentile	5/Month	Grab	EFA-01	See I.A.8 and I.A.0

PART I: Continued								
List <u>current</u> Effluent Limits of Outfall(s) to be Sampled: This should include any AO or CO limits the facility may be under (Leave cell blank if not applicable)								
Copper, Total Recoverable	ug/L	Max	3.7	Single Sample	Quarterly	24-hr FPC	EFD-01	
Dichlorobromomethane	ug/L	Max	Report	Monthly Average	Monthly	Grab	EFD-01	
Dibromochloromethane	ug/L	Max	Report	Monthly Average	Monthly	Grab	EFD-01	
Chronic Whole Effluent Toxicity, 7-Day IC25 (Ceriodaphnia dubia)	percent	Min	100	Single Sample	Semi-Annually; twice per year	24-hr FPC	EFD-01	See I.A.12
Chronic Whole Effluent Toxicity, 7-Day IC25 (Pimephales promelas)	percent	Min	100	Single Sample	Semi-Annually; twice per year	24-hr FPC	EFD-01	See I.A.12

PART I: Continued	
Receiving Waters: Hillsborough Bay	Classification (indicate whether fresh or marine): Class III Marine Waters

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

11. The permittee shall comply with the following requirements to evaluate chronic whole effluent toxicity of the discharge from outfall D-001.
    a. Effluent Limitation
        (1) In any routine or additional follow-up test for chronic whole effluent toxicity, the 25 percent inhibition concentration (IC25) for reproduction or growth shall not be less than 100% effluent. [Rules 62- 302.530(61) and 62-4.241(1)(b), F.A.C.]
        (2) For acute whole effluent toxicity, the 96-hour LC50 shall not be less than 100% effluent in any test. [Rule 62-302.500(1)(a)4. and 62-4.241(1)(a), F.A.C.]
    b. Monitoring Frequency
        (1) Routine toxicity tests shall be conducted once every six months, the first starting within 60 days of the effective date of this permit and lasting for the duration of this permit.
    c. Sampling Requirements
        (1) For each routine test or additional follow-up test conducted, a total of three flow proportional 24-hr composite samples of final effluent shall be collected and used in accordance with the sampling protocol discussed in EPA-821-R-02-013, Section 8.
        (2) The first sample shall be used to initiate the test. The remaining two samples shall be collected according to the protocol and used as renewal solutions on Day 3 (48 hours) and Day 5 (96 hours) of the test.
        (3) Samples for routine and additional follow-up tests shall not be collected on the same day.
    d. Test Requirements
        (1) Routine Tests: All routine tests shall be conducted using a control (0% effluent) and a minimum of five test dilutions: 100%, 50%, 25%, 12.5%, and 6.25% final effluent.
        (2) The permittee shall conduct a daphnid, Ceriodaphnia dubia, Survival and Reproduction Test and a fathead minnow, Pimephales promelas, Larval Survival and Growth Test, concurrently.
        (3) All test species, procedures and quality assurance criteria used shall be in accordance with Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, 4th Edition, EPA-821-R-02-013. Any deviation of the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use. In the event the above method is revised, the permittee shall conduct chronic toxicity testing in accordance with the revised method.
12. The permittee shall comply with the following requirements to evaluate chronic whole effluent toxicity of the discharge from outfall D-001.
    a. Effluent Limitation
        (1) In any routine or additional follow-up test for chronic whole effluent toxicity, the 25 percent inhibition concentration (IC25) for reproduction or growth shall not be less than 100% effluent. [Rules 62- 302.530(61) and 62-4.241(1)(b), F.A.C.]
        (2) For acute whole effluent toxicity, the 96-hour LC50 shall not be less than 100% effluent in any test. [Rule 62-302.500(1)(a)4. and 62-4.241(1)(a), F.A.C.]
    b. Monitoring Frequency
        (1) Routine toxicity tests shall be conducted once every six months, the first starting within 60 days of the effective date of this permit and lasting for the duration of this permit.
    c. Sampling Requirements

(1) For each routine test or additional follow-up test conducted, a total of three flow proportional 24-hr composite samples of final effluent shall be collected and used in accordance with the sampling protocol discussed in EPA-821-R-02-013, Section 8.

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

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

d. Test Requirements

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

(2) The permittee shall conduct a daphnid, Ceriodaphnia dubia, Survival and Reproduction Test and a fathead minnow, Pimephales promelas, Larval Survival and Growth Test, concurrently.

(3) All test species, procedures and quality assurance criteria used shall be in accordance with Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, 4th Edition, EPA-821-R-02-013. Any deviation of the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use. In the event the above method is revised, the permittee shall conduct chronic toxicity testing in accordance with the revised method.

(c) The first additional follow-up test shall be conducted using a control (0% effluent) and a minimum of five dilutions: 100%, 50%, 25%, 12.5%, and 6.25% effluent. The permittee may modify the dilution series in the second additional follow-up test to more accurately bracket the toxicity such that at least two dilutions above and two dilutions below the target concentration and a control (0% effluent) are run. All test results shall be analyzed according to the procedures in EPA-821-R-02- 013.

13. In the event of three valid test failures (whether routine or additional follow-up tests) within a 12-month period, the permittee shall notify the Department within 21 days after the last day of the third test failure.

a. The permittee shall submit a plan for correction of the effluent toxicity within 60 days after the last day of the third test failure.

b. The Department shall review and approve the plan before initiation.

c. The plan shall be initiated within 30 days following the Department's written approval of the plan.

d. Progress reports shall be submitted quarterly to the Department at the address above.

e. During the implementation of the plan, the permittee shall conduct quarterly routine whole effluent toxicity tests in accordance with I.A.11.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 I.A.11.b.(1). If a routine test is invalid according to the acceptance criteria in EPA-821-R-02-013, a repeat test shall be initiated within 21 days after the last day of the invalid routine test.

f. Upon completion of four consecutive quarterly valid routine tests that demonstrate compliance with the effluent limitation in I.A.11.a.(1) above, the permittee may submit a written request to the Department to terminate the plan. The plan shall be terminated upon written verification by the Department that the facility has passed at least four consecutive quarterly valid routine whole effluent toxicity tests. If a test within the sequence of the four is deemed invalid, but is replaced by a repeat valid test initiated within 21 days after the last day of the invalid test, the invalid test will not be counted against the requirement for four consecutive quarterly valid routine tests for the purpose of terminating the plan.

14. If chronic toxicity test results indicate greater than 50% mortality within 96 hours in an effluent concentration equal to or less than the effluent concentration specified as the acute

toxicity limit in I.A.11.a.(2), the Department may revise this permit to require acute definitive whole effluent toxicity testing.

15. The additional follow-up testing and the plan do not preclude the Department taking enforcement action for acute or chronic whole effluent toxicity failures.

[62-4.241, 62-620.620(3)]

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

Short Form Consent Order – OGC File No. 22-2071

Facility Mixing Zone Details (if applicable):

Mixing zone: Pursuant to Rule 62-4.244, F.A.C., the permittee is hereby granted a mixing zone for Dichlorobromomethane and Dibromochloromethane for the effluent discharge at Outfalls D-001, D-002 and D-003. The permittee's discharge shall not cause a violation of the Chapter 62-302, F.A.C., Class III Water Quality Standards outside the boundaries of the mixing zones described below.

The mixing zone for Dichlorobromomethane has a circular area of 17 meters radius, with a total surface area of 908 square meters, centered over the outfall(s). The mixing zone for Dibromochloromethane has a circular area of 14 meters radius, with a total surface area of 616 square meters, centered over the outfall(s). These mixing zones include the entire water column from the surface to the bottom and otherwise complies with the physical requirements of Rule 62-4.244, F.A.C.

Monitoring	Date	Monitoring2	PCS	Parameter	Description	Result	Limit	Units	Statistical Base	Exceedance
D-001	7/31/24	EFB-01	B	P00530	Solids, Total Suspended	6	5.0	mg/L	MB - Maximum	E
D-001	7/31/24	EFA-01	R	P00600	Nitrogen, Total	220.1	213.2	ton/yr	5Y - 5 Year Average	E
D-001	7/31/24	EFA-01	T	P00600	Nitrogen, Total	220.1	214.2	ton/yr	5Y - 5 Year Average	E
R-001	7/31/24	EFB-01	B	P00530	Solids, Total Suspended	6	5.0	mg/L	MB - Maximum	E
D-001	6/30/24	EFA-01	R	P00600	Nitrogen, Total	220.2	213.2	ton/yr	5Y - 5 Year Average	E
D-001	6/30/24	EFA-01	T	P00600	Nitrogen, Total	220.2	214.2	ton/yr	5Y - 5 Year Average	E
MWC-05	6/30/24	MWC-05		P00400	pH	6.4	6.5-8.5	s.u.	RG - RANGE	E
D-001	5/31/24	EFA-01	A	P51005	Coliform, Fecal, % less than detection	74	75.0	percent	TM - Minimum Total Monthly	E
D-001	5/31/24	EFA-01	A	P74055	Coliform, Fecal	59	25.0	#/100mL	MB - Maximum	E
D-001	5/31/24	EFA-01	R	P00600	Nitrogen, Total	219.5	213.2	ton/yr	5Y - 5 Year Average	E
D-001	5/31/24	EFA-01	T	P00600	Nitrogen, Total	219.5	214.2	ton/yr	5Y - 5 Year Average	E
R-001	5/31/24	EFA-01	A	P51005	Coliform, Fecal, % less than detection	74	75.0	percent	TM - Minimum Total Monthly	E
R-001	5/31/24	EFA-01	A	P74055	Coliform, Fecal	59	25.0	#/100mL	MB - Maximum	E
D-001	4/30/24	EFA-01	R	P00600	Nitrogen, Total	219.3	213.2	ton/yr	5Y - 5 Year Average	E
D-001	4/30/24	EFA-01	T	P00600	Nitrogen, Total	219.3	214.2	ton/yr	5Y - 5 Year Average	E
D-001	3/31/24	EFB-01	B	P00530	Solids, Total Suspended	92	5.0	mg/L	MB - Maximum	E
D-001	3/31/24	EFA-01	R	P00600	Nitrogen, Total	218.5	213.2	ton/yr	5Y - 5 Year Average	E
D-001	3/31/24	EFA-01	T	P00600	Nitrogen, Total	218.5	214.2	ton/yr	5Y - 5 Year Average	E
D-001	3/31/24	EFD-01	P	PTRP3B	IC25 Static 7 day Chr Ceriodaphnia	83	100.0	percent	ME - Minimum	E
R-001	3/31/24	EFB-01	B	P00530	Solids, Total Suspended	9.2	5.0	mg/L	MB - Maximum	E
MWC-05	3/31/24	MWC-05		P00400	pH	5.9	6.5-8.5	s.u.	RG - RANGE	E
MWC-06	3/31/24	MWC-06		P70295	Solids, Total Dissolved (TDS)	700	500.0	mg/L	MB - Maximum	E
D-001	2/29/24	EFA-01	R	P00600	Nitrogen, Total	217.6	213.2	ton/yr	5Y - 5 Year Average	E
D-001	2/29/24	EFA-01	T	P00600	Nitrogen, Total	217.6	214.2	ton/yr	5Y - 5 Year Average	E
D-001	1/31/24	EFA-01	A	P00600	Nitrogen, Total	4.6	4.5	mg/L	WA - Weekly Average	E

D-001	1/31/24	EFA-01	R	P00600	Nitrogen, Total	216.6	213.2	ton/yr	5Y - 5 Year Average	E
D-001	1/31/24	EFA-01	T	P00600	Nitrogen, Total	216.6	214.2	ton/yr	5Y - 5 Year Average	E
D-001	12/31/23	EFB-01	B	P00530	Solids, Total Suspended	7.5	5.0	mg/L	MB - Maximum	E
D-001	12/31/23	EFA-01	A	P00600	Nitrogen, Total	6.6	6.0	mg/L	MB - Maximum	E
D-001	12/31/23	EFA-01	A	P00600	Nitrogen, Total	4.6	4.5	mg/L	WA - Weekly Average	E
D-001	12/31/23	EFA-01	R	P00600	Nitrogen, Total	214.6	213.2	ton/yr	5Y - 5 Year Average	E
R-001	12/31/23	EFB-01	B	P00530	Solids, Total Suspended	7.5	5.0	mg/L	MB - Maximum	E
MWC-05	12/31/23	MWC-05		P00400	pH	5.78	6.5-8.5	s.u.	RG - RANGE	E
MWC-06	12/31/23	MWC-06		P00400	pH	6.45	6.5-8.5	s.u.	RG - RANGE	E
D-001	11/30/23	EFA-01	R	P00600	Nitrogen, Total	213.8	213.2	tons/yr	5Y - 5 Year Average	E
D-001	10/31/23	EFA-01	A	P50060	Chlorine, Total Residual	0.88	1.0	mg/L	ME - Minimum	E
D-001	10/31/23	EFA-01	R	P00600	Nitrogen, Total	213.7	213.2	tons/yr	5Y - 5 Year Average	E
D-001	10/31/23	EFD-01	P	PTRP3B	IC25 Static 7 day Chr Ceriodaphnia	93.1	100.0	percent	ME - Minimum	E
D-001	9/30/23	EFA-01	A	P50060	Chlorine, Total Residual	0.97	1.0	mg/L	ME - Minimum	E
MWC-01	9/30/23	MWC-01		P70295	Solids, Total Dissolved (TDS)	570	500.0	mg/L	MB - Maximum	E
MWC-01	9/30/23	MWC-01		P00400	pH	6.05	6.5-8.5	s.u.	RG - RANGE	E
MWC-02	9/30/23	MWC-02		P00400	pH	5.92	6.5-8.5	s.u.	RG - RANGE	E
MWC-04	9/30/23	MWC-04		P70295	Solids, Total Dissolved (TDS)	600	500.0	mg/L	MB - Maximum	E
MWC-04	9/30/23	MWC-04		P00400	pH	5.71	6.5-8.5	s.u.	RG - RANGE	E
MWC-05	9/30/23	MWC-05		P00400	pH	5.92	6.5-8.5	s.u.	RG - RANGE	E
D-001	8/31/23	EFA-01	A	P74055	Coliform, Fecal	77	25.0	#/100mL	MB - Maximum	E
R-001	8/31/23	EFA-01	A	P74055	Coliform, Fecal	77	25.0	#/100mL	MB - Maximum	E

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

Plant Incidences:

September 2023 Fecal, contamination in sample line due to biofilm buildup.

10-16-23 Chlorine

10-24-23 Chlorine

12-17-23 TN

05-27-24 Fecal, caused by operator error.

07-17-24 TSS, caused by high flows and turbidity issues, denitrification filters were bypassed for several hours.

August 2024 TSS and TN exceedances, caused by historic high influent flows where the denitrification filters were partially bypassed for about 36 hours.

Odor Control HFC Down for Repairs 8-14-24, notified 8-13-24

Odor Control HFC Online 8-16-24 as of 6:45 AM

08-26-24 TSS

09-04-24 TN and 09-05-24 TSS, caused by extremely high flows

09-04-24 and 09-05-24 pH, extra demand for SO2 for De-chlorination due to sustained high flows

Describe previous FYI and WQBEL study:

N/A

Describe previous or current Enforcement Actions (including WLs):

- WL22-176DW29SWD (Hurricane Ian SSOs)
- WL24-107DW29SWD (QNCR – Office File Review Investigation)
- WL24-171DW29SWD (Hurricane Debby SSOs)
- This facility is on the QNCR for their 5-year average for total nitrogen and total suspended solids exceedances
- This facility is under a Toxicity Corrective Action Plan

Describe any violations or problems noted in previous inspection:

Last inspection conducted on March 30, 2023. Deficiencies noted on inspection report:

1. Exceedances for effluent quality

Monitoring	Date	Parameter	Result	Limit
D-001	3/31/2022	Coliform, Fecal, % less than detection	68	75.0 %
D-001	3/31/2022	Coliform, Fecal	79	25.0/ 100 L
R-001	3/31/2022	Coliform, Fecal, % less than detection	68	75.0 %
R-001	3/31/2022	Coliform, Fecal	79	25.0%
D-001	5/31/2022	Coliform, Fecal, % less than detection	61	75.0 %
R-001	5/31/2022	Coliform, Fecal, % less than detection	61	75.0 %
D-001	6/30/2022	Chlorine, Total Residual	0.7	1.0 mL
R-001	6/30/2022	Chlorine, Total Residual	0.96	1.0 mL
D-001	7/31/2022	Chlorine, Total Residual	0.99	1.0 mL
R-001	7/31/2022	Chlorine, Total Residual	0.99	1.0 mL
D-001	9/30/2022	Solids, Total Suspended	23	10.0 mL
D-001	9/30/2022	Solids, Total Suspended	32	5.0 mL
D-001	9/30/2022	Nitrogen, Total	6.3	6.0 mL
R-001	9/30/2022	Solids, Total Suspended	32	5.0 mL
D-001	11/30/2022	Nitrogen, Total	4.6	4.5 mL
D-001	11/30/2022	Nitrogen, Total	12.3	6.0 mL

2. Exceedances for groundwater monitoring wells

Well ID	Date	Parameter	Result	Limit
MWC-01		Solids, Total Dissolved (TDS)	877	500.0 mg/L

MWC-02	Q1 2022	Solids, Total Dissolved (TDS)	732	500.0 mg/L
MWC-03		Solids, Total Dissolved (TDS)	698	500.0 mg/L
MWC-04		Solids, Total Dissolved (TDS)	608	500.0 mg/L
MWC-03		Sulfate, Total	260	250.0 mg/L
MWC-01	Q2 2022	Solids, Total Dissolved (TDS)	770	500.0 mg/L
MWC-02		Solids, Total Dissolved (TDS)	750	500.0 mg/L
MWC-03		Solids, Total Dissolved (TDS)	860	500.0 mg/L
MWC-04		Solids, Total Dissolved (TDS)	580	500.0 mg/L
MWC-03		Sulfate, Total	300	250.0 mg/L
MWC-03	Q3 2022	Sodium, Total Recoverable	166	160.0 mg/L
MWC-01		Solids, Total Dissolved (TDS)	900	500.0 mg/L
MWC-02		Solids, Total Dissolved (TDS)	580	500.0 mg/L
MWC-03		Solids, Total Dissolved (TDS)	790	500.0 mg/L
MWC-03		Sulfate, Total	270	250.0 mg/L
MWC-01	Q4 2022	Chloride (as Cl)	290	250.0 mg/L
MWC-03		Coliform, Fecal	210	4.0 units/ 100mL
MWC-01		pH	5.93	6.5-8.5 s.u.
MWC-03		pH	5.61	6.5-8.5 s.u.
MWC-04		pH	5.72	6.5-8.5 s.u.
MWC-01		Solids, Total Dissolved (TDS)	1300	500.0 mg/L
MWC-04		Solids, Total Dissolved (TDS)	570	500.0 mg/L
MWC-01		Sulfate, Total	480	250.0 mg/L

3. Multiple unauthorized discharges noted from January 2022 – inspection date.

SSO Details Table

LOCATION	DATE DISCHARGE OCCURRED	DATE DISCHARGE REPORTED	SWO NUMBER	SPILL VOL (GAL)	SPILL VOL RECOVERED (GAL)	SPILL CHARACTERISTIC	CAUSE	AREA AFFECTED	CLEAN-UP
4405 E SLIGH AV	02/07/23	02/07/23	N/A	681	500	RAW WASTEWATER	DIRECTIONAL BORE	GROUND	Jetted the mainline, cleaned and TV inspected the mainline. Private contractors to perform repair.
3100 W. SAN CARLOS ST	02/12/23	2/13/23	2023-1286	7,800	0	RECLAIMED	PIPE FAILURE	HILLSBOROUGH BAY	Line was isolated by closing valves. Repairs to pipe.
202 S CLARK AVE	03/08/23	03/09/23	2023-2023	3,087	0	RECLAIMED	CONTRACTOR	STORMWATER COLLECTION SYSTEM	Main was isolated until repairs were completed at 11:36 PM.
1542 E 139 AV	03/27/23	03/28/23	N/A	320	300	RAW WASTEWATER	GREASE BLOCKAGE	GROUND	Jetted the mainline, cleaned and TV inspected the mainline. Removed grease and debris. Established work order for sewer inspectors.

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

DMR trends seem stable.

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

The Department received a permit modification application to address exceedances in the effluent. This permit modification will address the exceedances for total nitrogen. The Department has a long-form consent order in draft with interim limits that will cover the aforementioned warning letters.

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: 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-2024-10-07-49

FYI3 H. Curren AWWTP (FL0020940)

Customer: SW-DIST

Project ID: FYI3

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Page 1 of 4

last revised Jan 25, 2018

Requester: Benjamin Nomann

Field Report Prepared By: Emmalise Hunter

Collected By: Emmalise Hunter, Margaret Kratzer, Alexandra Myers

Sampling Agency: SWD-FDEP

Location: Howard F Curren AWWTP	☒ Comp ☐ Grab	Collection (comp begin or grab) Date 11/17/24 Time 12:00 am	Eastern Central	Composite end Date 11/18/24 Time 12:00 am						Bottle Group(s) (See pg 2): B
Field ID: EFA-01	Matrix (type, e.g., Salt, Fresh, etc): Fresh				Diss. Oxygen 4.7 (60.8) ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L) N/A				
WIN/STORET #	Temp (C) 28.4	pH 7.26			Sample Depth Point of discharge ☐ ft ☐ m	Sp. Conductance (umho/cm) 2049				
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt) 1.04	Comments							
Location: Howard F Curren AWWTP	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 11/18/24 Time 9:38 am	Eastern Central	Composite end Date Time						Bottle Group(s): D
Field ID: Equipment Blanks	Matrix (type, e.g., Salt, Fresh, etc): Fresh				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: Howard F Curren AWWTP	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 11/18/24 Time 9:10 am	Eastern Central	Composite end Date Time						Bottle Group(s): A
Field ID: EFA-01	Matrix (type, e.g., Salt, Fresh, etc): Fresh				Diss. Oxygen 4.7 (60.8) ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L) N/A				
WIN/STORET #	Temp (C) 28.4	pH 7.26			Sample Depth Point of discharge ☐ ft ☐ m	Sp. Conductance (umho/cm) 2049				
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt) 1.04	Comments							
Location: Howard F Curren AWWTP	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 11/18/24 Time 9:49 am	Eastern Central	Composite end Date Time						Bottle Group(s): C
Field ID: Field Blanks	Matrix (type, e.g., Salt, Fresh, etc): Fresh				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	11/18/24	FEDEX	4	BD	11.19.24 / 9:23

670-51578-1

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: Noel Savoie
Project Manager

Contractor Representatives Contacted: Noel Savoie

Date: 9/24/2024
Means of Contact: Email

Task Assignment Number: OV625 Maximum Cost: **$41.50** Turnaround Time: 5 BD

Sample Delivery Date: 10/22/2024

Project Name/Description:
RQ-2024-10-07-49;FYI3 H. Curren AWWTP (FL0020940)

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**

QC Instructions:

Comments: Quote #

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

Delivery Method: _____ Shipping _____

Samples Accepted by: D-Landa Date/Time 11-19-2024 @ 0930

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

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, emmalise.c.hunter@floridadep.gov

Invoice to: FDEP Micro Overflow

PO#_____

Project Name: RQ-2024-10-07-49 Howard F. Curren AWWTP

Laboratory Submission # 24110797

Sample Name	Sample Type[1] / Sample Matrix[2]	Collection		Container			Preservative[4]	Parameters for Analysis	Laboratory Sample #
		Date	Time	Qty	Capacity	Type[3]			
ENQ-EFA-01	G	11/18/24	9:18am	1	250mL	P		Entero	1
ENQ-EFA-01	G	11/18/24	9:18am	1	250mL	P		Entero	2
Fecal - EFA-01	G	11/18/24	9:18am	1	250mL	P		Fecal	3

9:10 per sampler

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

Laboratory Sample Acceptability:
pH <2 : ✓ BEA Temperature:
BEAS Temperature:

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.

	Collected / Relinquished By & Affiliation: (Print & Sign)	Date	Time	Received By& Affiliation: (Print & Sign)	Date	Time
1	Emmalise Hunter	11/18/24	11:36am	Nathan Hadsell	11-18-24	11:36
2	Relinquished By& Affiliation: (Print & Sign)	Date	Time	Received By& Affiliation: (Print & Sign)	Date	Time

Rev 3.2023

Appendix D. Chemical Analysis of Effluent

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
11/18/2024 12:00	Effluent Composite	Overflow	Carbonaceous Biochemical Oxygen Demand	3.9	mg/L	2.0	2.0
11/18/2024 12:00	Effluent Composite	Metals	Copper	1.89	µg/L	0.40	0.80
11/18/2024 12:00	Effluent Composite	Nutrients	Kjeldahl Nitrogen	1.0 Y	mg N/L	0.080	0.20
11/18/2024 12:00	Effluent Composite	Nutrients	TSS	2 IY	mg/L	2.0	10
11/18/2024 12:00	Effluent Composite	Nutrients	NO2NO3-N	1.2 Y	mg N/L	0.040	0.10
11/18/2024 12:00	Effluent Composite	Nutrients	Total-P	2.5 Y	mg P/L	0.050	0.25
11/18/2024 12:00	Effluent Composite	Nutrients	Specific Conductance	2,049	µmhos/cm		
11/18/2024 12:00	Effluent Composite	Nutrients	Dissolved Oxygen mg/L	60.8	mg/L		
11/18/2024 12:00	Effluent Composite	Nutrients	Temperature	28.4	C		
11/18/2024 12:00	Effluent Composite	Nutrients	pH	7.26	SU		
11/18/2024 9:10	Effluent Grab	AGP/LN	Algal Growth Potential-Salinity Adjusted	3.0 U	mg DryWt/L	3.00	3.00
11/18/2024 9:10	Effluent Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	0.93 U	µg/L	0.93	2.8
11/18/2024 9:10	Effluent Grab	Chlorophyll/Grain Size/BOD	Phaeophytin-a	1.0 U	µg/L	1.0	3.0
11/18/2024 9:10	Effluent Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	0.68 U	µg/L	0.68	2.0
11/18/2024 9:10	Effluent Grab	Overflow	Enterococci-Quanti-Tray	10 U	MPN/100 mL	10	10
11/18/2024 9:10	Effluent Grab	Overflow	Escherichia Coli-Quanti-Tray	10 U	MPN/100 mL	10	10
11/18/2024 9:10	Effluent Grab	Overflow	Fecal Coliforms-Membrane Filter	10 U	cfu/100 mL	10	10
11/18/2024 9:10	Effluent Grab	Toxicology	Bioassay-Acute-Def-SW-Mysid, LC50	100 L	LC50		
11/18/2024 9:10	Effluent Grab	Toxicology	Bioassay-Acute-Def-SW-Fish, LC50	100 L	LC50		
11/18/2024 9:10	Effluent Grab	Metals	Arsenic	1.31	µg/L	0.050	0.20
11/18/2024 9:10	Effluent Grab	Metals	Calcium	93.2	mg/L	0.075	0.30
11/18/2024 9:10	Effluent Grab	Metals	Nickel	2.0 I	µg/L	0.50	2.0
11/18/2024 9:10	Effluent Grab	Metals	Aluminum	14 I	µg/L	5.0	20
11/18/2024 9:10	Effluent Grab	Metals	Sodium	354	mg/L	2.5	10
11/18/2024 9:10	Effluent Grab	Metals	Iron	52 I	µg/L	30	120
11/18/2024 9:10	Effluent Grab	Metals	Selenium	3.22	µg/L	0.20	0.80
11/18/2024 9:10	Effluent Grab	Metals	Silver	0.010 U	µg/L	0.010	0.040
11/18/2024 9:10	Effluent Grab	Metals	Lead	0.20 U	µg/L	0.20	0.40
11/18/2024 9:10	Effluent Grab	Metals	Chromium	0.45 I	µg/L	0.40	1.6
11/18/2024 9:10	Effluent Grab	Metals	Zinc	7.1 I	µg/L	5.0	20
11/18/2024 9:10	Effluent Grab	Metals	Copper	1.62	µg/L	0.40	0.80

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
11/18/2024 9:10	Effluent Grab	Metals	Cadmium	0.020 U	µg/L	0.020	0.080
11/18/2024 9:10	Effluent Grab	Metals	Potassium	15.4	mg/L	0.30	1.2
11/18/2024 9:10	Effluent Grab	Metals	Magnesium	12.7	mg/L	0.040	0.16
11/18/2024 9:10	Effluent Grab	Nutrients	Turbidity	0.80 IA	NTU	0.10	1.0
11/18/2024 9:10	Effluent Grab	Nutrients	Fluoride	0.66	mg F/L	0.025	0.10
11/18/2024 9:10	Effluent Grab	Nutrients	Kjeldahl Nitrogen	1.0	mg N/L	0.080	0.20
11/18/2024 9:10	Effluent Grab	Nutrients	Sulfate	520	mg SO4/L	2.0	5.0
11/18/2024 9:10	Effluent Grab	Nutrients	NO2NO3-N	1.4	mg N/L	0.040	0.10
11/18/2024 9:10	Effluent Grab	Nutrients	Color (true)	8.3 A	PCU	2.5	6.0
11/18/2024 9:10	Effluent Grab	Nutrients	Ammonia-N	0.049	mg N/L	0.0020	0.0050
11/18/2024 9:10	Effluent Grab	Nutrients	TSS	3 I	mg/L	2.0	10
11/18/2024 9:10	Effluent Grab	Nutrients	Chloride	210	mg Cl/L	2.0	5.0
11/18/2024 9:10	Effluent Grab	Nutrients	Total Alkalinity	161	mg CaCO3/L	0.65	2.5
11/18/2024 9:10	Effluent Grab	Nutrients	Total-P	2.5	mg P/L	0.050	0.25
11/18/2024 9:10	Effluent Grab	Nutrients	O-Phosphate-P	2.2 Q	mg P/L	0.080	0.20
11/18/2024 9:10	Effluent Grab	Nutrients	Organic Carbon	8.5	mg C/L	0.50	1.0
11/18/2024 9:10	Effluent Grab	Pesticides	Diazinon	0.13 UJ	ng/L	0.13	0.64
11/18/2024 9:10	Effluent Grab	Pesticides	Difenoconazole	0.62 U	ng/L	0.62	3.1
11/18/2024 9:10	Effluent Grab	Pesticides	Ethion	0.31 UJ	ng/L	0.31	1.5
11/18/2024 9:10	Effluent Grab	Pesticides	Imazalil	0.67 U	ng/L	0.67	3.4
11/18/2024 9:10	Effluent Grab	Pesticides	Iprodione	0.52 U	ng/L	0.52	2.6
11/18/2024 9:10	Effluent Grab	Pesticides	Metalaxyl	0.52 U	ng/L	0.52	2.6
11/18/2024 9:10	Effluent Grab	Pesticides	Metolachlor	0.77 U	ng/L	0.77	3.9
11/18/2024 9:10	Effluent Grab	Pesticides	Naled	2.6 UJ	ng/L	2.6	13
11/18/2024 9:10	Effluent Grab	Pesticides	Parathion Ethyl	0.15 UJ	ng/L	0.15	0.77
11/18/2024 9:10	Effluent Grab	Pesticides	Pyridaben	1.4 U	ng/L	1.4	7.2
11/18/2024 9:10	Effluent Grab	Pesticides	Triadimefon	0.15 U	ng/L	0.15	0.77
11/18/2024 9:10	Effluent Grab	Pesticides	Bromacil	0.62 U	ng/L	0.62	3.1
11/18/2024 9:10	Effluent Grab	Pesticides	Coumaphos	1.1 UJ	ng/L	1.1	5.7
11/18/2024 9:10	Effluent Grab	Pesticides	Demeton	3.6 UJ	ng/L	3.6	18
11/18/2024 9:10	Effluent Grab	Pesticides	Flutolanil	0.33 I	ng/L	0.10	0.52
11/18/2024 9:10	Effluent Grab	Pesticides	Flumioxazin	3.1 U	ng/L	3.1	15
11/18/2024 9:10	Effluent Grab	Pesticides	Ametryn	1.1 U	ng/L	1.1	5.7
11/18/2024 9:10	Effluent Grab	Pesticides	Atrazine	17	ng/L	0.21	1.0

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
11/18/2024 9:10	Effluent Grab	Pesticides	Azoxystrobin	8.8	ng/L	0.41	2.1
11/18/2024 9:10	Effluent Grab	Pesticides	Parathion Methyl	0.21 UJ	ng/L	0.21	1.0
11/18/2024 9:10	Effluent Grab	Pesticides	Prometon	3.1 U	ng/L	3.1	15
11/18/2024 9:10	Effluent Grab	Pesticides	Terbufos	0.21 UJ	ng/L	0.21	1.0
11/18/2024 9:10	Effluent Grab	Pesticides	Chlorpyrifos Ethyl	0.31 UJ	ng/L	0.31	1.5
11/18/2024 9:10	Effluent Grab	Pesticides	Dithiopyr	2.1 U	ng/L	2.1	10
11/18/2024 9:10	Effluent Grab	Pesticides	Ethoprop	0.13 UJ	ng/L	0.13	0.64
11/18/2024 9:10	Effluent Grab	Pesticides	Fluxapyroxad	0.26 U	ng/L	0.26	1.3
11/18/2024 9:10	Effluent Grab	Pesticides	Alachlor	0.41 U	ng/L	0.41	2.1
11/18/2024 9:10	Effluent Grab	Pesticides	Oxadiazon	0.37 I	ng/L	0.36	1.8
11/18/2024 9:10	Effluent Grab	Pesticides	Pronamide	0.10 U	ng/L	0.10	0.52
11/18/2024 9:10	Effluent Grab	Pesticides	Propargite	0.82 U	ng/L	0.82	4.1
11/18/2024 9:10	Effluent Grab	Pesticides	Pyriproxyfen	0.26 U	ng/L	0.26	1.6
11/18/2024 9:10	Effluent Grab	Pesticides	Sulfentrazone	9.5	ng/L	1.4	7.2
11/18/2024 9:10	Effluent Grab	Pesticides	Terbuthylazine	0.21 U	ng/L	0.21	1.0
11/18/2024 9:10	Effluent Grab	Pesticides	Carbophenothion	0.52 UJ	ng/L	0.52	2.6
11/18/2024 9:10	Effluent Grab	Pesticides	Etridiazole	0.10 U	ng/L	0.10	0.52
11/18/2024 9:10	Effluent Grab	Pesticides	Fenbuconazole	0.52 U	ng/L	0.52	2.6
11/18/2024 9:10	Effluent Grab	Pesticides	Fipronil	0.21 U	ng/L	0.21	1.0
11/18/2024 9:10	Effluent Grab	Pesticides	Fipronil Sulfide	0.64	ng/L	0.10	0.52
11/18/2024 9:10	Effluent Grab	Pesticides	Fludioxonil	0.35 I	ng/L	0.10	0.52
11/18/2024 9:10	Effluent Grab	Pesticides	Myclobutanil	0.36 UJ	ng/L	0.36	1.8
11/18/2024 9:10	Effluent Grab	Pesticides	Metribuzin	0.41 U	ng/L	0.41	2.1
11/18/2024 9:10	Effluent Grab	Pesticides	Mevinphos	1.0 UJ	ng/L	1.0	5.2
11/18/2024 9:10	Effluent Grab	Pesticides	Norflurazon	1.0 U	ng/L	1.0	5.2
11/18/2024 9:10	Effluent Grab	Pesticides	Pyraflufen Ethyl	0.31 U	ng/L	0.31	1.5
11/18/2024 9:10	Effluent Grab	Pesticides	Simazine	15	ng/L	0.26	1.3
11/18/2024 9:10	Effluent Grab	Pesticides	Naproxen	0.0080 U	µg/L	0.0080	0.032
11/18/2024 9:10	Effluent Grab	Pesticides	Butylate	0.46 U	ng/L	0.46	2.3
11/18/2024 9:10	Effluent Grab	Pesticides	Cyprodinil	0.21 U	ng/L	0.21	1.0
11/18/2024 9:10	Effluent Grab	Pesticides	Disulfoton	0.62 UJ	ng/L	0.62	3.1
11/18/2024 9:10	Effluent Grab	Pesticides	Fipronil Desulfinyl	0.17 I	ng/L	0.10	0.52
11/18/2024 9:10	Effluent Grab	Pesticides	Molinate	0.26 U	ng/L	0.26	1.3
11/18/2024 9:10	Effluent Grab	Pesticides	Stirophos	0.41 UJ	ng/L	0.41	3.3

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
11/18/2024 9:10	Effluent Grab	Pesticides	Tebuconazole	4.8 I	ng/L	1.4	7.2
11/18/2024 9:10	Effluent Grab	Pesticides	Thiobencarb	0.52 U	ng/L	0.52	2.6
11/18/2024 9:10	Effluent Grab	Pesticides	Chlorfenapyr	1.8	ng/L	0.31	1.5
11/18/2024 9:10	Effluent Grab	Pesticides	Chlorpyrifos Methyl	0.10 UJ	ng/L	0.10	0.52
11/18/2024 9:10	Effluent Grab	Pesticides	Cyanazine	5.2 U	ng/L	5.2	26
11/18/2024 9:10	Effluent Grab	Pesticides	Dimethenamid	0.10 UJ	ng/L	0.10	0.52
11/18/2024 9:10	Effluent Grab	Pesticides	Fipronil Sulfone	0.26 U	ng/L	0.26	1.3
11/18/2024 9:10	Effluent Grab	Pesticides	Fonofos	0.15 UJ	ng/L	0.15	0.77
11/18/2024 9:10	Effluent Grab	Pesticides	Loratadine	4.1	ng/L	0.31	1.5
11/18/2024 9:10	Effluent Grab	Pesticides	Fluazifop-P-butyl	0.10 U	ng/L	0.10	0.52
11/18/2024 9:10	Effluent Grab	Pesticides	Acetochlor	0.21 U	ng/L	0.21	1.0
11/18/2024 9:10	Effluent Grab	Pesticides	Phorate	0.26 UJ	ng/L	0.26	1.3
11/18/2024 9:10	Effluent Grab	Pesticides	Prodiamine	0.21 U	ng/L	0.21	1.0
11/18/2024 9:10	Effluent Grab	Pesticides	Propanil	0.10 U	ng/L	0.10	0.52
11/18/2024 9:10	Effluent Grab	Pesticides	Propiconazole	7.2	ng/L	0.62	3.1
11/18/2024 9:10	Effluent Grab	Pesticides	Ibuprofen	0.080 U	µg/L	0.080	0.32
11/18/2024 9:10	Effluent Grab	Pesticides	Caffeine	7.7 U	ng/L	7.7	39
11/18/2024 9:10	Effluent Grab	Pesticides	Carfentrazone Ethyl	0.15 U	ng/L	0.15	0.77
11/18/2024 9:10	Effluent Grab	Pesticides	Dimethomorph	0.67 U	ng/L	0.67	3.4
11/18/2024 9:10	Effluent Grab	Pesticides	EPTC	0.52 U	ng/L	0.52	2.6
11/18/2024 9:10	Effluent Grab	Pesticides	Fenamiphos	0.46 UJ	ng/L	0.46	2.3
11/18/2024 9:10	Effluent Grab	Pesticides	Hexazinone	0.52 U	ng/L	0.52	2.6
11/18/2024 9:10	Effluent Grab	Pesticides	Malathion	0.36 UJ	ng/L	0.36	1.8
11/18/2024 9:10	Effluent Grab	Pesticides	Atrazine Desethyl	1.3 U	ng/L	1.3	6.7
11/18/2024 9:10	Effluent Grab	Pesticides	Azinphos Methyl	3.1 UJ	ng/L	3.1	15
11/18/2024 9:10	Effluent Grab	Pesticides	Napropamide	0.72 UJ	ng/L	0.72	3.6
11/18/2024 9:10	Effluent Grab	Pesticides	Oxyfluorfen	0.21 U	ng/L	0.21	1.0
11/18/2024 9:10	Effluent Grab	Pesticides	Pendimethalin	1.8 U	ng/L	1.8	8.8
11/18/2024 9:10	Effluent Grab	Pesticides	Phenytoin	11 I	ng/L	5.5	27
11/18/2024 9:10	Effluent Grab	Pesticides	Prometryn	0.36 U	ng/L	0.36	1.8
11/18/2024 9:10	Effluent Grab	Pesticides	Sucralose	83	µg/L	0.10	0.40
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Trichloroethene	0.20 U	µg/L	0.20	0.80
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	2-Nitrophenol	0.051 U	µg/L	0.051	0.20
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	2,4-Dinitrotoluene	0.051 U	µg/L	0.051	0.20

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.051 U	µg/L	0.051	0.20
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Hexachloroethane	0.051 UJ	µg/L	0.051	0.20
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Acenaphthene	0.026 U	µg/L	0.026	0.10
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Benzo(a)anthracene	0.026 U	µg/L	0.026	0.10
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Benzene	0.20 U	µg/L	0.20	0.80
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Chloroform	51	µg/L	0.20	0.80
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Methylene chloride	1.0 U	µg/L	1.0	4.0
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	trans-1,3-Dichloropropene	0.50 U	µg/L	0.50	2.0
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	2-Chlorophenol	0.051 U	µg/L	0.051	0.20
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.026 U	µg/L	0.026	0.10
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	N-Nitrosodimethylamine	2.0 UJ	µg/L	2.0	8.2
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Pyrene	0.10 U	µg/L	0.10	0.41
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	1,1,2-Trichloroethane	0.20 U	µg/L	0.20	0.80
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	1,2-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	1,4-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Bromodichloromethane	78	µg/L	0.20	0.80
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.1 U	µg/L	3.1	12
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.051 UJ	µg/L	0.051	0.20
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Naphthalene	0.10 U	µg/L	0.10	0.41
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Anthracene	0.051 U	µg/L	0.051	0.20
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Benzo(b)fluoranthene	0.026 U	µg/L	0.026	0.10
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	1,3-Dichlorobenzene	0.50 U	µg/L	0.50	2.0
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Bromoform	15	µg/L	0.50	2.0
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.051 UJ	µg/L	0.051	0.20
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	2,4-Dichlorophenol	0.051 U	µg/L	0.051	0.20
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	2,6-Dinitrotoluene	0.051 U	µg/L	0.051	0.20
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	3,3'-Dichlorobenzidine	10 U	µg/L	10	41
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	5.1 U	µg/L	5.1	20
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Butyl benzyl phthalate	1.0 U	µg/L	1.0	4.1
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Hexachlorobutadiene	0.051 U	µg/L	0.051	0.20
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.051 UJ	µg/L	0.051	0.20
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.051 U	µg/L	0.051	0.20
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	1,1,1-Trichloroethane	0.20 U	µg/L	0.20	0.80
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	1,1,2,2-Tetrachloroethane	0.20 U	µg/L	0.20	0.80

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	m,p-Xylene	0.50 U	µg/L	0.50	2.0
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Vinyl chloride	0.20 U	µg/L	0.20	0.80
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	2-Chloronaphthalene	0.051 U	µg/L	0.051	0.20
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	2,4-Dinitrophenol	10 UJ	µg/L	10	41
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Di-n-octyl phthalate	0.051 U	µg/L	0.051	0.20
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	4-Nitrophenol	10 U	µg/L	10	41
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.026 U	µg/L	0.026	0.10
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	cis-1,3-Dichloropropene	0.50 U	µg/L	0.50	2.0
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Tetrachloroethene	0.20 U	µg/L	0.20	0.80
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Toluene	0.50 U	µg/L	0.50	2.0
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.051 U	µg/L	0.051	0.20
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Benzo(k)fluoranthene	0.026 U	µg/L	0.026	0.10
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.051 U	µg/L	0.051	0.20
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.026 U	µg/L	0.026	0.10
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Isophorone	0.051 U	µg/L	0.051	0.20
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.051 U	µg/L	0.051	0.20
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Benzidine	10 UJ	µg/L	10	41
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Bromomethane	0.50 U	µg/L	0.50	2.0
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Chlorobenzene	0.20 U	µg/L	0.20	0.80
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Chrysene	0.026 U	µg/L	0.026	0.10
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Di-n-butyl phthalate	2.0 U	µg/L	2.0	8.2
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Diethyl phthalate	2.0 U	µg/L	2.0	8.2
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Fluoranthene	0.051 U	µg/L	0.051	0.20
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Fluorene	0.026 U	µg/L	0.026	0.10
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Hexachlorobenzene	0.051 U	µg/L	0.051	0.20
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.051 U	µg/L	0.051	0.20
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Nitrobenzene	0.051 U	µg/L	0.051	0.20
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Pentachlorophenol	0.51 U	µg/L	0.51	2.0
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Phenanthrene	0.10 U	µg/L	0.10	0.41
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Benzo(a)pyrene	0.026 U	µg/L	0.026	0.10
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	1,2-Dichloroethane	0.20 U	µg/L	0.20	0.80
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Ethylbenzene	0.20 U	µg/L	0.20	0.80
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Trichlorofluoromethane	0.20 U	µg/L	0.20	0.80
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	2,4-Dimethylphenol	0.051 UJ	µg/L	0.051	0.20

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.051 UJ	µg/L	0.051	0.20
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Dimethyl phthalate	0.20 U	µg/L	0.20	0.82
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Phenol	0.051 U	µg/L	0.051	0.20
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Acenaphthylene	0.026 U	µg/L	0.026	0.10
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	1,1-Dichloroethane	0.20 U	µg/L	0.20	0.80
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	1,1-Dichloroethene	0.20 U	µg/L	0.20	0.80
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	1,2-Dichloropropane	0.20 U	µg/L	0.20	0.80
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Carbon tetrachloride	0.20 U	µg/L	0.20	0.80
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Chloroethane	0.50 U	µg/L	0.50	2.0
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Chloromethane	2.0 U	µg/L	2.0	8.0
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	Dibromochloromethane	72	µg/L	0.20	0.80
11/18/2024 9:10	Effluent Grab	Priority Organic Pollutants	o-Xylene	0.50 U	µg/L	0.50	2.0
11/18/2024 9:10	Effluent Grab	Nutrients	Specific Conductance	2049	µmhos/cm		
11/18/2024 9:10	Effluent Grab	Nutrients	pH	7.26	SU		
11/18/2024 9:10	Effluent Grab	Nutrients	Temperature	28.4	C		
11/18/2024 9:10	Effluent Grab	Nutrients	Dissolved Oxygen mg/L	60.8	mg/L		
11/18/2024 9:38	Equipment Blank	Metals	Copper	0.40 U	µg/L	0.40	0.80
11/18/2024 9:38	Equipment Blank	Nutrients	NO2NO3-N	0.004 UY	mg N/L	0.0040	0.010
11/18/2024 9:38	Equipment Blank	Nutrients	Kjeldahl Nitrogen	0.080 UY	mg N/L	0.080	0.20
11/18/2024 9:38	Equipment Blank	Nutrients	Total-P	0.002 UY	mg P/L	0.0020	0.0050
11/18/2024 9:49	Field Blank	Metals	Iron	30 U	µg/L	30	120
11/18/2024 9:49	Field Blank	Metals	Cadmium	0.020 U	µg/L	0.020	0.080
11/18/2024 9:49	Field Blank	Metals	Copper	0.40 U	µg/L	0.40	0.80
11/18/2024 9:49	Field Blank	Metals	Chromium	0.40 U	µg/L	0.40	1.6
11/18/2024 9:49	Field Blank	Metals	Zinc	5.0 U	µg/L	5.0	20
11/18/2024 9:49	Field Blank	Metals	Arsenic	0.050 U	µg/L	0.050	0.20
11/18/2024 9:49	Field Blank	Metals	Aluminum	5.0 U	µg/L	5.0	20
11/18/2024 9:49	Field Blank	Metals	Sodium	0.50 U	mg/L	0.50	2.0
11/18/2024 9:49	Field Blank	Metals	Calcium	0.075 U	mg/L	0.075	0.30
11/18/2024 9:49	Field Blank	Metals	Silver	0.010 U	µg/L	0.010	0.040
11/18/2024 9:49	Field Blank	Metals	Selenium	0.20 U	µg/L	0.20	0.80
11/18/2024 9:49	Field Blank	Metals	Nickel	0.50 U	µg/L	0.50	2.0
11/18/2024 9:49	Field Blank	Metals	Lead	0.20 U	µg/L	0.20	0.40
11/18/2024 9:49	Field Blank	Metals	Magnesium	0.040 U	mg/L	0.040	0.16

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
11/18/2024 9:49	Field Blank	Metals	Potassium	0.30 U	mg/L	0.30	1.2
11/18/2024 9:49	Field Blank	Nutrients	Organic Carbon	0.76 IY	mg C/L	0.50	1.0
11/18/2024 9:49	Field Blank	Nutrients	Kjeldahl Nitrogen	0.080 UY	mg N/L	0.080	0.20
11/18/2024 9:49	Field Blank	Nutrients	O-Phosphate-P	0.006 IYQ	mg P/L	0.0040	0.010
11/18/2024 9:49	Field Blank	Nutrients	Sulfate	0.20 UY	mg SO4/L	0.20	0.50
11/18/2024 9:49	Field Blank	Nutrients	Total-P	0.002 UY	mg P/L	0.0020	0.0050
11/18/2024 9:49	Field Blank	Nutrients	Chloride	0.20 U	mg Cl/L	0.20	0.50
11/18/2024 9:49	Field Blank	Nutrients	NO2NO3-N	0.004 UY	mg N/L	0.0040	0.010
11/18/2024 9:49	Field Blank	Nutrients	Turbidity	0.10 UYQ	NTU	0.10	1.0
11/18/2024 9:49	Field Blank	Nutrients	Color (true)	2.5 UYQ	PCU	2.5	6.0
11/18/2024 9:49	Field Blank	Nutrients	Fluoride	0.025 U	mg F/L	0.025	0.10
11/18/2024 9:49	Field Blank	Nutrients	Total Alkalinity	0.65 UY	mg CaCO3/L	0.65	2.5
11/18/2024 9:49	Field Blank	Nutrients	Ammonia-N	0.002 UY	mg N/L	0.0020	0.0050
11/18/2024 9:49	Field Blank	Pesticides	Azinphos Methyl	3.1 UY	ng/L	3.1	16
11/18/2024 9:49	Field Blank	Pesticides	Azoxystrobin	0.42 UY	ng/L	0.42	2.1
11/18/2024 9:49	Field Blank	Pesticides	EPTC	0.52 UY	ng/L	0.52	2.6
11/18/2024 9:49	Field Blank	Pesticides	Ethion	0.31 UYJ	ng/L	0.31	1.6
11/18/2024 9:49	Field Blank	Pesticides	Ethoprop	0.13 UY	ng/L	0.13	0.66
11/18/2024 9:49	Field Blank	Pesticides	Fludioxonil	0.10 UY	ng/L	0.10	0.52
11/18/2024 9:49	Field Blank	Pesticides	Myclobutanil	0.37 UYJ	ng/L	0.37	1.8
11/18/2024 9:49	Field Blank	Pesticides	Pyridaben	1.5 UY	ng/L	1.5	7.3
11/18/2024 9:49	Field Blank	Pesticides	Tebuconazole	1.5 UY	ng/L	1.5	7.3
11/18/2024 9:49	Field Blank	Pesticides	Terbuthylazine	0.21 UY	ng/L	0.21	1.0
11/18/2024 9:49	Field Blank	Pesticides	Thiobencarb	0.52 UY	ng/L	0.52	2.6
11/18/2024 9:49	Field Blank	Pesticides	Acetochlor	0.21 UY	ng/L	0.21	1.0
11/18/2024 9:49	Field Blank	Pesticides	Alachlor	0.42 UY	ng/L	0.42	2.1
11/18/2024 9:49	Field Blank	Pesticides	Chlorfenapyr	0.31 UY	ng/L	0.31	1.6
11/18/2024 9:49	Field Blank	Pesticides	Difenoconazole	0.63 UY	ng/L	0.63	3.1
11/18/2024 9:49	Field Blank	Pesticides	Dimethomorph	0.68 UY	ng/L	0.68	3.4
11/18/2024 9:49	Field Blank	Pesticides	Fluxapyroxad	0.26 UY	ng/L	0.26	1.3
11/18/2024 9:49	Field Blank	Pesticides	Metalaxyl	0.52 UY	ng/L	0.52	2.6
11/18/2024 9:49	Field Blank	Pesticides	Metribuzin	0.42 UY	ng/L	0.42	2.1
11/18/2024 9:49	Field Blank	Pesticides	Naled	2.6 UY	ng/L	2.6	13
11/18/2024 9:49	Field Blank	Pesticides	Pendimethalin	1.8 UY	ng/L	1.8	8.9

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
11/18/2024 9:49	Field Blank	Pesticides	Prodiamine	0.21 UY	ng/L	0.21	1.0
11/18/2024 9:49	Field Blank	Pesticides	Pyriproxyfen	0.26 UY	ng/L	0.26	1.7
11/18/2024 9:49	Field Blank	Pesticides	Stirophos	0.42 UY	ng/L	0.42	3.4
11/18/2024 9:49	Field Blank	Pesticides	Sulfentrazone	1.5 UY	ng/L	1.5	7.3
11/18/2024 9:49	Field Blank	Pesticides	Caffeine	7.9 UY	ng/L	7.9	39
11/18/2024 9:49	Field Blank	Pesticides	Fenamiphos	0.47 UY	ng/L	0.47	2.4
11/18/2024 9:49	Field Blank	Pesticides	Fonofos	0.16 UY	ng/L	0.16	0.79
11/18/2024 9:49	Field Blank	Pesticides	Napropamide	0.73 UYJ	ng/L	0.73	3.7
11/18/2024 9:49	Field Blank	Pesticides	Phenytoin	5.6 UY	ng/L	5.6	28
11/18/2024 9:49	Field Blank	Pesticides	Pronamide	0.10 UY	ng/L	0.10	0.52
11/18/2024 9:49	Field Blank	Pesticides	Propanil	0.10 UY	ng/L	0.10	0.52
11/18/2024 9:49	Field Blank	Pesticides	Simazine	0.26 UY	ng/L	0.26	1.3
11/18/2024 9:49	Field Blank	Pesticides	Cyprodinil	0.21 UY	ng/L	0.21	1.0
11/18/2024 9:49	Field Blank	Pesticides	Demeton	3.7 UY	ng/L	3.7	18
11/18/2024 9:49	Field Blank	Pesticides	Disulfoton	0.63 UY	ng/L	0.63	3.1
11/18/2024 9:49	Field Blank	Pesticides	Fenbuconazole	0.52 UY	ng/L	0.52	2.6
11/18/2024 9:49	Field Blank	Pesticides	Fipronil Sulfide	0.10 UY	ng/L	0.10	0.52
11/18/2024 9:49	Field Blank	Pesticides	Malathion	0.37 UY	ng/L	0.37	1.8
11/18/2024 9:49	Field Blank	Pesticides	Mevinphos	1.0 UY	ng/L	1.0	5.2
11/18/2024 9:49	Field Blank	Pesticides	Molinate	0.26 UY	ng/L	0.26	1.3
11/18/2024 9:49	Field Blank	Pesticides	Parathion Methyl	0.21 UY	ng/L	0.21	1.0
11/18/2024 9:49	Field Blank	Pesticides	Phorate	0.26 UY	ng/L	0.26	1.3
11/18/2024 9:49	Field Blank	Pesticides	Propiconazole	0.63 UY	ng/L	0.63	3.1
11/18/2024 9:49	Field Blank	Pesticides	Sucralose	0.010 UY	µg/L	0.010	0.040
11/18/2024 9:49	Field Blank	Pesticides	Butylate	0.47 UY	ng/L	0.47	2.4
11/18/2024 9:49	Field Blank	Pesticides	Carfentrazone Ethyl	0.16 UY	ng/L	0.16	0.79
11/18/2024 9:49	Field Blank	Pesticides	Chlorpyrifos Ethyl	0.31 UY	ng/L	0.31	1.6
11/18/2024 9:49	Field Blank	Pesticides	Coumaphos	1.1 UY	ng/L	1.1	5.8
11/18/2024 9:49	Field Blank	Pesticides	Dimethenamid	0.10 UYJ	ng/L	0.10	0.52
11/18/2024 9:49	Field Blank	Pesticides	Fipronil	0.21 UY	ng/L	0.21	1.0
11/18/2024 9:49	Field Blank	Pesticides	Prometon	3.1 UY	ng/L	3.1	16
11/18/2024 9:49	Field Blank	Pesticides	Prometryn	0.37 UY	ng/L	0.37	1.8
11/18/2024 9:49	Field Blank	Pesticides	Atrazine	0.21 UY	ng/L	0.21	1.0
11/18/2024 9:49	Field Blank	Pesticides	Cyanazine	5.2 UY	ng/L	5.2	26

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
11/18/2024 9:49	Field Blank	Pesticides	Chlorpyrifos Methyl	0.10 UY	ng/L	0.10	0.52
11/18/2024 9:49	Field Blank	Pesticides	Flutolanil	0.10 UY	ng/L	0.10	0.52
11/18/2024 9:49	Field Blank	Pesticides	Norflurazon	1.0 UY	ng/L	1.0	5.2
11/18/2024 9:49	Field Blank	Pesticides	Parathion Ethyl	0.16 UY	ng/L	0.16	0.79
11/18/2024 9:49	Field Blank	Pesticides	Propargite	0.84 UY	ng/L	0.84	4.2
11/18/2024 9:49	Field Blank	Pesticides	Pyraflufen Ethyl	0.31 UY	ng/L	0.31	1.6
11/18/2024 9:49	Field Blank	Pesticides	Triadimefon	0.16 UY	ng/L	0.16	0.79
11/18/2024 9:49	Field Blank	Pesticides	Naproxen	0.0080 UY	µg/L	0.0080	0.032
11/18/2024 9:49	Field Blank	Pesticides	Ibuprofen	0.080 UY	µg/L	0.080	0.32
11/18/2024 9:49	Field Blank	Pesticides	Ametryn	1.2 UY	ng/L	1.2	5.8
11/18/2024 9:49	Field Blank	Pesticides	Atrazine Desethyl	1.4 UY	ng/L	1.4	6.8
11/18/2024 9:49	Field Blank	Pesticides	Carbophenothion	0.52 UY	ng/L	0.52	2.6
11/18/2024 9:49	Field Blank	Pesticides	Diazinon	0.13 UY	ng/L	0.13	0.66
11/18/2024 9:49	Field Blank	Pesticides	Dithiopyr	2.1 UY	ng/L	2.1	10
11/18/2024 9:49	Field Blank	Pesticides	Etridiazole	0.10 UY	ng/L	0.10	0.52
11/18/2024 9:49	Field Blank	Pesticides	Fipronil Desulfinyl	0.10 UY	ng/L	0.10	0.52
11/18/2024 9:49	Field Blank	Pesticides	Flumioxazin	3.1 UY	ng/L	3.1	16
11/18/2024 9:49	Field Blank	Pesticides	Imazalil	0.68 UY	ng/L	0.68	3.4
11/18/2024 9:49	Field Blank	Pesticides	Iprodione	0.52 UY	ng/L	0.52	2.6
11/18/2024 9:49	Field Blank	Pesticides	Loratadine	0.31 UY	ng/L	0.31	1.6
11/18/2024 9:49	Field Blank	Pesticides	Metolachlor	0.79 UY	ng/L	0.79	3.9
11/18/2024 9:49	Field Blank	Pesticides	Oxadiazon	0.37 UY	ng/L	0.37	1.8
11/18/2024 9:49	Field Blank	Pesticides	Terbufos	0.21 UY	ng/L	0.21	1.0
11/18/2024 9:49	Field Blank	Pesticides	Bromacil	0.63 UY	ng/L	0.63	3.1
11/18/2024 9:49	Field Blank	Pesticides	Fipronil Sulfone	0.26 UY	ng/L	0.26	1.3
11/18/2024 9:49	Field Blank	Pesticides	Fluazifop-P-butyl	0.10 UY	ng/L	0.10	0.52
11/18/2024 9:49	Field Blank	Pesticides	Hexazinone	0.52 UY	ng/L	0.52	2.6
11/18/2024 9:49	Field Blank	Pesticides	Oxyfluorfen	0.21 UY	ng/L	0.21	1.0
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Benzidine	10 UYJ	µg/L	10	41
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.051 UY	µg/L	0.051	0.20
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Benzo(a)pyrene	0.026 UY	µg/L	0.026	0.10
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.051 UY	µg/L	0.051	0.20
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.051 UY	µg/L	0.051	0.20
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	2,4-Dinitrotoluene	0.051 UY	µg/L	0.051	0.20

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.051 UYJ	µg/L	0.051	0.20
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	N-Nitrosodimethylamine	2.0 UYJ	µg/L	2.0	8.2
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.051 UY	µg/L	0.051	0.20
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Pyrene	0.10 UY	µg/L	0.10	0.41
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	4-Nitrophenol	10 UY	µg/L	10	41
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Hexachlorobenzene	0.051 UY	µg/L	0.051	0.20
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Phenanthrene	0.10 UY	µg/L	0.10	0.41
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Phenol	0.051 UY	µg/L	0.051	0.20
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	2-Chlorophenol	0.051 UY	µg/L	0.051	0.20
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	2,4-Dichlorophenol	0.051 UY	µg/L	0.051	0.20
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	2,4-Dimethylphenol	0.051 UYJ	µg/L	0.051	0.20
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Chrysene	0.026 UY	µg/L	0.026	0.10
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Diethyl phthalate	0.001 UYJ	µg/L	1.0E-03	1.0E-03
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Fluorene	0.026 UY	µg/L	0.026	0.10
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.026 UY	µg/L	0.026	0.10
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Isophorone	0.051 UY	µg/L	0.051	0.20
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Pentachlorophenol	0.51 UY	µg/L	0.51	2.0
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	2-Nitrophenol	0.051 UY	µg/L	0.051	0.20
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	2,4-Dinitrophenol	10 UY	µg/L	10	41
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.051 UYJ	µg/L	0.051	0.20
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.051 UY	µg/L	0.051	0.20
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.026 UY	µg/L	0.026	0.10
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.051 UY	µg/L	0.051	0.20
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	5.1 UY	µg/L	5.1	20
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Di-n-butyl phthalate	2.0 UY	µg/L	2.0	8.2
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Di-n-octyl phthalate	0.051 UY	µg/L	0.051	0.20
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.026 UY	µg/L	0.026	0.10
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Fluoranthene	0.051 UY	µg/L	0.051	0.20
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.051 UYJ	µg/L	0.051	0.20
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	3,3'-Dichlorobenzidine	10 UY	µg/L	10	41
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Acenaphthene	0.026 UY	µg/L	0.026	0.10
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Anthracene	0.051 UY	µg/L	0.051	0.20
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Hexachloroethane	0.051 UYJ	µg/L	0.051	0.20
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Dibromochloromethane	0.20 UY	µg/L	0.20	0.80

Date_Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	2-Chloronaphthalene	0.051 UY	µg/L	0.051	0.20
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Benzo(a)anthracene	0.026 UY	µg/L	0.026	0.10
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Benzo(b)fluoranthene	0.026 UY	µg/L	0.026	0.10
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Benzo(k)fluoranthene	0.026 UY	µg/L	0.026	0.10
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Hexachlorobutadiene	0.051 UY	µg/L	0.051	0.20
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Nitrobenzene	0.051 UY	µg/L	0.051	0.20
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.1 UY	µg/L	3.1	12
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	2,6-Dinitrotoluene	0.051 UY	µg/L	0.051	0.20
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Acenaphthylene	0.026 UY	µg/L	0.026	0.10
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.051 UYJ	µg/L	0.051	0.20
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Butyl benzyl phthalate	1.0 UY	µg/L	1.0	4.1
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Dimethyl phthalate	0.20 UY	µg/L	0.20	0.82
11/18/2024 9:49	Field Blank	Priority Organic Pollutants	Naphthalene	0.10 UY	µg/L	0.10	0.41
11/18/2024 9:10	Trip Blank	Priority Organic Pollutants	trans-1,3-Dichloropropene	0.50 UY	µg/L	0.50	2.0
11/18/2024 9:10	Trip Blank	Priority Organic Pollutants	Tetrachloroethene	0.20 UY	µg/L	0.20	0.80
11/18/2024 9:10	Trip Blank	Priority Organic Pollutants	o-Xylene	0.50 UY	µg/L	0.50	2.0
11/18/2024 9:10	Trip Blank	Priority Organic Pollutants	Ethylbenzene	0.20 UY	µg/L	0.20	0.80
11/18/2024 9:10	Trip Blank	Priority Organic Pollutants	Bromomethane	0.50 UY	µg/L	0.50	2.0
11/18/2024 9:10	Trip Blank	Priority Organic Pollutants	1,4-Dichlorobenzene	0.50 UY	µg/L	0.50	2.0
11/18/2024 9:10	Trip Blank	Priority Organic Pollutants	1,2-Dichloroethane	0.20 UY	µg/L	0.20	0.80
11/18/2024 9:10	Trip Blank	Priority Organic Pollutants	1,1,2,2-Tetrachloroethane	0.20 UY	µg/L	0.20	0.80
11/18/2024 9:10	Trip Blank	Priority Organic Pollutants	1,3-Dichlorobenzene	0.50 UY	µg/L	0.50	2.0
11/18/2024 9:10	Trip Blank	Priority Organic Pollutants	Bromoform	0.50 UY	µg/L	0.50	2.0
11/18/2024 9:10	Trip Blank	Priority Organic Pollutants	1,1-Dichloroethane	0.20 UY	µg/L	0.20	0.80
11/18/2024 9:10	Trip Blank	Priority Organic Pollutants	1,1-Dichloroethene	0.20 UY	µg/L	0.20	0.80
11/18/2024 9:10	Trip Blank	Priority Organic Pollutants	cis-1,3-Dichloropropene	0.50 UY	µg/L	0.50	2.0
11/18/2024 9:10	Trip Blank	Priority Organic Pollutants	Methylene chloride	1.0 UY	µg/L	1.0	4.0
11/18/2024 9:10	Trip Blank	Priority Organic Pollutants	Toluene	0.50 UY	µg/L	0.50	2.0
11/18/2024 9:10	Trip Blank	Priority Organic Pollutants	Trichlorofluoromethane	0.20 UY	µg/L	0.20	0.80
11/18/2024 9:10	Trip Blank	Priority Organic Pollutants	1,2-Dichloropropane	0.20 UY	µg/L	0.20	0.80
11/18/2024 9:10	Trip Blank	Priority Organic Pollutants	Chloroethane	0.50 UY	µg/L	0.50	2.0
11/18/2024 9:10	Trip Blank	Priority Organic Pollutants	Dibromochloromethane	0.20 UY	µg/L	0.20	0.80
11/18/2024 9:10	Trip Blank	Priority Organic Pollutants	1,1,1-Trichloroethane	0.20 UY	µg/L	0.20	0.80
11/18/2024 9:10	Trip Blank	Priority Organic Pollutants	Trichloroethene	0.20 UY	µg/L	0.20	0.80

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11/18/2024 9:10	Trip Blank	Priority Organic Pollutants	1,2-Dichlorobenzene	0.50 UY	µg/L	0.50	2.0
11/18/2024 9:10	Trip Blank	Priority Organic Pollutants	Chloroform	0.20 UY	µg/L	0.20	0.80
11/18/2024 9:10	Trip Blank	Priority Organic Pollutants	m,p-Xylene	0.50 UY	µg/L	0.50	2.0
11/18/2024 9:10	Trip Blank	Priority Organic Pollutants	Vinyl chloride	0.20 UY	µg/L	0.20	0.80
11/18/2024 9:10	Trip Blank	Priority Organic Pollutants	Benzene	0.20 UY	µg/L	0.20	0.80
11/18/2024 9:10	Trip Blank	Priority Organic Pollutants	1,1,2-Trichloroethane	0.20 UY	µg/L	0.20	0.80
11/18/2024 9:10	Trip Blank	Priority Organic Pollutants	Bromodichloromethane	0.20 UY	µg/L	0.20	0.80
11/18/2024 9:10	Trip Blank	Priority Organic Pollutants	Carbon tetrachloride	0.20 UY	µg/L	0.20	0.80
11/18/2024 9:10	Trip Blank	Priority Organic Pollutants	Chlorobenzene	0.20 UY	µg/L	0.20	0.80
11/18/2024 9:10	Trip Blank	Priority Organic Pollutants	Chloromethane	2.0 UY	µg/L	2.0	8.0