Effluent Quality Assessment of Georgia-Pacific Palatka Pulp & Paper Putnam County NPDES # FL0002763 Sampled July 15 & 17, 2019

Division of Environmental Assessment and Restoration
Florida Department of Environmental Protection
October 2019

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Summary of Results

Toxicity testing was cancelled because the third set of samples was not received. Specific conductance and dissolved oxygen of the effluent exceeded Class III Freshwater Quality Criteria. The analytical chemistry suggests that the effluent is nitrogen-limited.

Facility Overview

Georgia-Pacific (Palatka Pulp & Paper) is an industrial wastewater facility producing pulp and paper. A Facility Summary, including a description of the facility, summary of permit limits, and any relevant Administrative Order (AO), Consent Order (CO), and Discharge Monitoring Report (DMR) information is provided in Appendix A. The effluent is continuously discharged into the lower St. Johns River, a Class III Fresh Water (Figure1).

The lower St. Johns River falls within the Site Specific Interpretations of the Numeric Nutrient Criteria (NNC) for the St Johns River above Rice Creek segment and has a total maximum daily load (TMDL) established. For this region, the NNC thresholds, expressed as annual load, are 500,325 kg/year total phosphorus and 8,571,563 kg/year total nitrogen. This FYI event only provides single sample results. It should be noted that waterbody impairment assessments are based on longer-term data, and individual exceedances of a criterion do not indicate use impairment. http://ca.dep.state.fl.us/mapdirect/?focus=nutrientcriteria

Methods

Effluent grab and composite samples were taken from monitoring site location EFF-03 for Outfall D-003. Samples were collected by Paul Duff and Shannon Taylor. The third set of samples for chronic toxicity testing was not received due to a shipping error and the toxicity test was cancelled. There is a permit limit for settleable solids but the analysis was not scheduled.

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.

All references to 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.

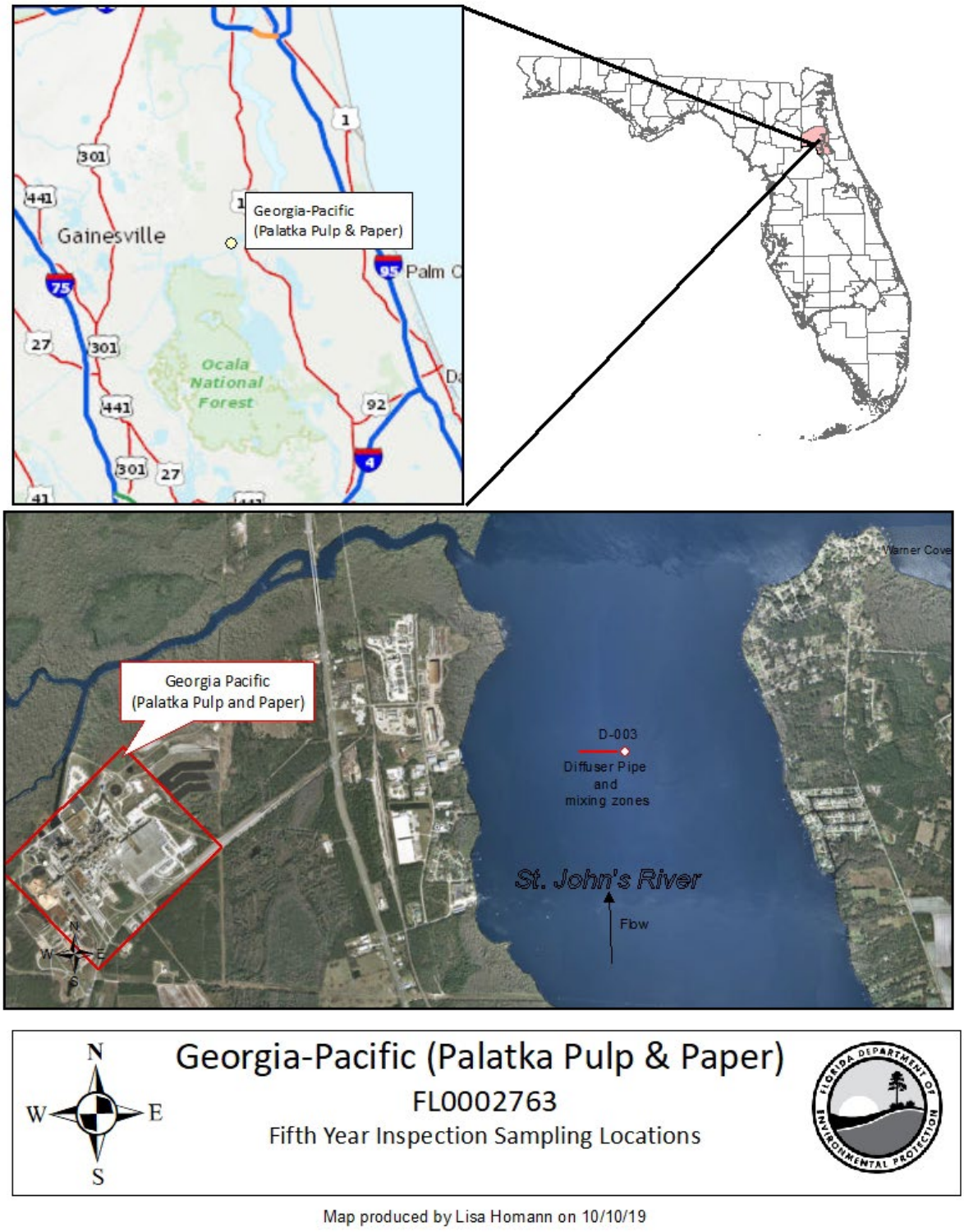


Figure 1. Map of Facility and Sampling Locations

Results

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

- Specific conductance of the effluent complied with the permit limit but exceeded Class III Freshwater Quality Criterion (62-302.530(22), F.A.C.).

- On one of two sampling dates, dissolved oxygen of the effluent exceeded Class III Freshwater Quality Criterion (62-302.533(1)(a), F.A.C.).

Analytical Water Chemistry (See Table 2 and Appendix D)

- All analytical water chemistry parameters detected in the effluent grab sample complied with effluent permit limits and Class III Freshwater Quality Criteria (62-302.530).

- 2,3,7,8-tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD) was not detected in the effluent composite sample.

- Adsorbable Organic Halides (AOX) were detected in the effluent composite sample. Compliance cannot be determined because breakthrough exceeded 25%. Also, the effluent permit limit is measured in units of pounds per day and the laboratory test measures micrograms per liter.

- Alkalinity and AOX were detected in the blank sample.

Microbiology (See Table 2 and Appendix B)

- *Escherichia coli* (*E. coli*) was not detected in the effluent sample and therefore complied with facility permit limits and Class III Freshwater Quality Criterion (62-302.530(6)(b), F.A.C.).

Toxicity Whole Effluent Test (See Table 2)

- Effluent composite samples were collected for chronic toxicity testing on three days, but the third sample was not received due to a shipping error. The test was cancelled and reported as No Result.

- 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 were detected at levels that complied with Class III Freshwater Quality Criteria (62-302.530, F.A.C.). There are no effluent permit limits for metals.

Algal Growth Potential (See Table 4 and Appendix B)

- The freshwater unicellular green alga, *Pseudokirchneriella subcapitata*, was used to determine the AGP values in the effluent sample. Based on the measured effluent

AGP (3.43 mg DryWt/L), the measured chlorophyll *a* value (110 µg/L) was relatively high based on a conversion equation derived from data for freshwater systems in the southeast, excluding Florida (Rashcke and Shultz, 1987). The analytical chemistry suggests that the effluent is nitrogen-limited (Miller et al. 1978).

- By comparing the laboratory AGP result to the predicted AGP values for inorganic nitrogen, total nitrogen, ortho-phosphate, and total phosphorus, an inference can be made that not all of the nutrients in the effluent were bio-available to the test species. To determine actual nutrient limitation, a limiting-nutrient algal growth potential test would need to be performed (Maloney et al. 1978).

Literature Cited

Maloney, T. E., Miller, W. E. and Specht, D. T. 1974. The Marine Algal Assay Procedure: Bottle Test. National Environmental Research Center Office of Research and Development. U. S. EPA, Corvallis, Oregon. 43 p.

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.

Raschke, R.L. and Schultz, D.A. 1987. The use of the algal growth potential test for data assessment. Journal Water Pollution Control Federation.

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 Freshwater Criteria, and field parameters

Parameter	Units	Class III Criteria	Effluent Permit Limits	Effluent 7/15	Effluent 7/17
Sample Depth	m	-	-	0.5	0.4
Temperature	C	-	Report	32.6	31.6
pH	SU	6.0 - 8.5	6.0 - 8.5	8.2	8.1
Specific Conductance	umhos/cm	≤ 1,275	≤ 2,467	1361 e	1362 e
Salinity	ppt	-	-	0.7	0.7
Dissolved Oxygen	mg/L	-	-	7.1	2.4
Dissolved Oxygen	% saturation	≥ 34	-	99.6	33 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

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

Effluent limits, Class III Freshwater Criteria, and analytical water chemistry, microbiological, and toxicological data

Analyte	Units	Class III Criteria	Effluent Permit Limits	Effluent Composite	Effluent Grab
Ortho-phosphate	mg P/L	-	-	-	0.047
Total Phosphorus	mg P/L	-	Report	-	0.30
Total Ammonia	mg N/L	0.60	≤ 3.5 s	-	0.080
Un-ionized Ammonia (calculated salinity)	mg NH3/L	≤ 0.02 s	-	-	< 0.02 c
Nitrate and Nitrite	mg N/L	-	-	-	0.017
Total Kjeldahl Nitrogen	mg N/L	-	Report	-	2.6
Organic Nitrogen	mg N/L	-	-	-	2.5 c
Total Nitrogen	mg N/L	-	Report	-	2.6 c
Total Organic Carbon	mg C/L	-	-	-	41
Chlorophyll *a* - Corrected	ug/L	-	-	-	110
Phaeophytin	ug/L	-	-	-	4.9 U
CBOD, 5 day, N - inhibited	mg/L	-	-	7.1 AJ	-
Total Suspended Solids	mg/L	-	Report	14	-
Turbidity	NTU	< 29 t	≤ 55	-	24 A
Color (true)	PCU	-	≤ 1,202	-	310
Alkalinity [1]	mg CaCO3/L	≥ 20	-	-	285 A
Chloride	mg Cl/L	-	-	-	90 A
Fluoride	mg F/L	≤ 10.0	-	-	0.069 I
Sulfate	mg SO4/L	-	-	-	230 A
Adsorbable Organic Halides [1]	ug/L	-	1,641 lb/day p	790	-
2,3,7,8-TCDD	pg/L	-	0.014 p	0.82 U	-
Escherichia coli	MPN/100 mL	≤ 410	≤ 410	-	10 U
Bioassay - Water flea *(Ceriodaphnia dubia)*, IC25	% effluent	-	≥ 11.7 p	No Result O	-
Bioassay - Fish *(Cyprinella leedsi)*, IC25	% effluent	-	≥ 11.7 p	No Result O	-

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
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
O - Sampled, but analysis lost or not performed
U - Material analyzed for but not detected; value reported is the method detection limit
1 - analyte detected in blank

Table 3. Analytical metals data

Effluent limits, Class III Freshwater Criteria, and analytical metals data

Analyte	Units	Class III Criteria	Effluent Permit Limits	Effluent Grab
Hardness	mg CaCO3/L	-	-	95.7 c
Aluminum	ug/L	-	-	2910
Arsenic	ug/L	≤ 50	-	0.75
Cadmium	ug/L	≤ 0.262 b	-	0.020 U
Calcium	mg/L	-	-	30.2
Chromium, Total [2]	ug/L	≤ 83.1 b	-	0.69 I
Copper	ug/L	≤ 8.98 b	-	0.40 U
Iron	ug/L	≤ 1,000	-	250
Lead	ug/L	≤ 3.01 b	-	0.20 U
Magnesium	mg/L	-	-	4.92
Nickel	ug/L	≤ 50.2 b	-	0.95 I
Potassium	mg/L	-	-	8.5
Selenium	ug/L	≤ 5.0	-	0.20 U
Silver	ug/L	≤ 0.07	-	0.010 U
Sodium	mg/L	-	-	259
Zinc	ug/L	≤ 115 b	-	5.0 U

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

b - Value is calculated based on hardness, (62-302.530(3))

c - Value is calculated

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

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

2 - Class III Freshwater Quality Criterion (62-302.530(19)(a), F.A.C.) is for chromium-III

Table 4. Algal Growth Potential (AGP)

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

Location	Test Species	AGP (measured)	Predicted AGP (TSIN) ± 20%	Predicted AGP (OP) ± 20%	Predicted AGP (TN) ± 20%	Predicted AGP (TP) ± 20%	Inorganic N:P ratio	Total N:P ratio
Effluent Grab	*Pseudokirchneriella subcapitata*	3.43	3.7 ± 0.7	20.2 ± 4	99.4 ± 19.9	129 ± 25.8	2.1	8.7

Appendix A. Facility Summary

State of Florida
Department of Environmental Protection
Facility Introduction & Summary

PART I: Information gathered prior to sampling event	
Prepared By: Hillary Saunders	**Contact Number:** 904-256-1549
Facility Name (as it appears on permit): Georgia-Pacific (Palatka Pulp & Paper)	**Former Names:**
NPDES Permit Number: FL0002763	**Permit Expiration Date:** 12/28/22
Physical Address: 215 Country Road 216, Palatka, FL, 32177	
District: Northeast	**County:** Putnam
Function of Facility: Pulp and paper mill producing both bleached and unbleached pulp and paper utilizing the Kraft process.	
Facility Type: Industrial Wastewater	**Permitted Capacity (MGD):** 16 MGD
Mean Flow for previous 12 months for all EXTERNAL outfalls listed in permit (list date range including months): March 2018 to April 2019 – 17.6 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): EFF-3 Final Effluent after treatment prior to entering the pipeline EFF-4 Final Effluent at the pipeline valve house off Comfort Road CAL-1 Calculated	
Description of Permitted Outfall(s): The discharge to the Lower St. Johns River consists of a pump station, force main pipeline and required appurtenances for the conveyance of the effluent from the treatment lagoons to the Lower St. Johns River (Class III Fresh waters – WBID 2213L) through Outfall D-003 via a 36-inch diameter pipeline and 1043-foot-long diffuser. High purity oxygen is added at the pump station to ensure the discharge meets the dissolved oxygen criterion. The point of discharge is located approximately at latitude 29° 41' 13" N, longitude 81° 38' 24" W	
Description of Treatment Process (if multiple discharge points, include a detailed map or diagram of facility): The current wastewater treatment system consists of primary clarification followed by secondary treatment consisting of facultative and aerobic lagoons. Most of the wastewater treatment solids from the primary clarifier are pumped to sludge lagoons for draining and air drying. A small portion is pumped to a mechanical dewatering system. The dewatered cake is sent to the sludge management unit for disposal. Treated effluent, injected with high purity oxygen, is discharged to the Lower St. Johns River through a force main pipeline to Outfall D-003. Supplemental high purity oxygen system has been installed to provide oxygen to Rice Creek.	

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	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Chronic Whole Effluent Toxicity, 7-Day IC25 (*Ceriodaphnia dubia*)	percent	Min				11.7	Quarterly	24-hr FPC	EFF-3	See I.A.7 and I.A.8
Chronic Whole Effluent Toxicity, 7-Day IC25 (*Pimephales promelas*)	percent	min				11.7	Quarterly	24-hr FPC	EFF-3	See I.A.7 and I.A.8
Flow	MGD		Report	Report		Report	Continuous	Meter	EFF-3	
BOD, 5-day 20°C	mg/L			Report		Report	1 Day/Week	24-hr FPC	EFF-3	See I.A.9
BOD, 5-day 20°C	lb/day	Max		3,500 (Jun- Nov) 7,170 (Dec - May)		7,000 (Jun - Nov) 14,340 (Dec - May)	1 Day/Week	24-hr FPC	EFF-3	See I.A.9
Solids, Total Suspended	mg/L			Report		Report	1 Day/Week	24-hr FPC	EFF-3	See I.A.9
Solids, Total Suspended	lb/day	Max		5,000 (Jun - Nov) 10,000 (Dec - May)		10,000 (Jun - Nov) 17,500 (Dec - May)	1 Day/Week	24-hr FPC	EFF-3	See I.A.7 and I.A.8

pH	s.u.	Min				6.0	5 Days/Week	Grab	EFF-3	See I.A.5
		Max				8.5				
Oxygen, Dissolved (DO)	mg/L	Min				5.0	5 Days/Week	Grab	EFF-4	See I.A.10
Adsorbable Organic Halides (AOX)	mg/L	Max	449	1002		1,641	5 Days/Week	24-hr FPC	EFF-3	
Escherichia coli Bacteria	#/100mL	Max		126 410 (90th Percentile)			Monthly	Grab	EFF-3	See I.A.11
Color	PCU	Max				1202	Monthly	Grab	EFF-3	See I.A.8
Specific Conductance	µmhos/cm	Max				2467	Monthly	Grab	EFF-3	See I.A.8
Turbidity	NTU	Max				55	Monthly	Grab	EFF-3	See I.A.8
Nitrogen, Total (as N)	mg/L			Report		Report	Monthly	Grab	EFF-3	
Nitrogen, Total (as N)	lb/yr					365000	Monthly	Grab	EFF-3	See I.A.6
Nitrogen, Kjeldahl, Total (as N)	mg/L					Report	Monthly	Grab	EFF-3	
Phosphorus, Total (as P)	mg/L			Report		Report	Monthly	Grab	EFF-3	
Phosphorus, Total (as P)	lb/yr	Max	73000 (Annual Total)				Monthly	Grab	EFF-3	See I.A.6
Solids, Settleable	mL/L	Max				0.1	Monthly	Grab	EFF-3	

Nitrogen, Ammonia, Total (as N)	mg/L	Max		2.3		3.5	Weekly	Grab	EFF-3	See I.A.8
Temperature (°F), Water	Deg F	Max				Report	When Monitored	Grab	EFF-3	See I.A.12
2,3,7,8-tetrachlorodibenzo-p-dioxin	pg/L	Max		0.014		0.014	Quarterly	24-hr FPC	EFF-3	See I.A.4

PART I: Continued

Receiving Waters:	**Classification (indicate whether fresh or marine):**
Lower St. Johns River	Class III fresh waters

Toxicity Test Requirements (routine and/or additional test language, test species, salinity adjustment, etc.):
The permittee shall comply with the following requirements to evaluate whole effluent toxicity of the discharge from outfall D-003.
a. Effluent Limitation
(1) In any routine or additional follow-up test for chronic whole effluent toxicity, the 25 percent inhibition concentration (IC_{25}) shall not be less than 11.7% effluent. [Rules 62-302.530(61) and 62- 4.241(1)(b), F.A.C.]
(2) For acute whole effluent toxicity, the 96-hour LC_{50} 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 quarterly starting within 60 days of the issuance date of this permit and lasting for the duration of this permit

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

Facility Mixing Zone Details (if applicable):
The length of the mixing zones is centered along either side and ends of the 1,043-foot diffuser structure. In accordance with Rule 62-4.244, F.A.C., the permit includes mixing zones for the following water quality criteria:

Parameter	Mixing Zone Area	Mixing Zone Length
Ammonia (un-ionized)	**11,570 sq. meters**	**16.5 meters***
Turbidity	**11,570 sq. meters**	**16.5 meters***
Specific Conductance	**11,570 sq. meters**	**16.5 meters***
Color	**63,733 sq. meters**	**367 meters****
Chronic Toxicity	**11,570 sq. meters**	**16.5 meters***

* Limited to Rise of Plume upstream and downstream and to the sides of the center of the 1,043-ft diffuser for a total of 33 meters.

** The mixing zone for color is in the shape of a polygon around the pipeline diffuser consisting of an area of 63,733 square meters and extends for a distance of 367 meters in both the upstream and downstream direction.

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

Date	Parameter and Units	Limit	Result
N/A	N/A	N/A	N/A

Describe previous FYI and WQBEL study:
The previous CEI conducted as part of an FYI, was considered 'In Compliance'.

Describe previous or current Enforcement Actions (including WLs): SFCO 17-1034 – unauthorized discharges – payment received on 12/21/17
Describe any violations or problems noted in previous inspection: N/A
Discuss whether DMR trends within previous five years are improving or declining: DMR trends are improving. Exceedances have occurred most often with fecal coliform, pH, and turbidity. The most recent exceedances have been fecal coliform, with the last one in October 2017.
Additional Comments (this should include a trend of the Effluent, i.e. if the facility is now Reuse): N/A

PART II: Sampling Event Information	
Date(s) sample collected:	**Sampler(s):**
Temperature (Deg C):	**pH (SU):**
Dissolved Oxygen (mg/L):	**Conductivity (umhos/cm):**
Total Residual Chlorine (mg/L):	**Total Residual Chlorine - after Disinfection (mg/L):**
Method of Chlorination:	**Method of De-chlorination:**
Flow During Sample Collection for each outfall(MGD):	
Mean Flow for each outfall for previous 12 months based on sampling date (If samples are taken on more than one day, indicate Mean Flow for each day):	
Describe Discharge during Sampling Event: ☐ **Continuous** ☐ **Intermittent** ☐ **Seasonal** ☐ **Rainfall Dependent** ☐ **Other, please specify:**	
Describe any conditions, difficulties or abnormal events that occurred during the sample collection and any other additional comments here:	

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 (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 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 62-302.530(20), 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 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 coliform bacteria may constitute an exceedance of 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.

- **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 62-302.530(47), F.A.C., 62-302.530(48)(a) F.A.C. and/or 62-302.530(48)(b) F.A.C..

- **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 62-302.530(47), F.A.C., 62-302.530(48)(a), F.A.C. and/or 62-302.530(48)(b), F.A.C..

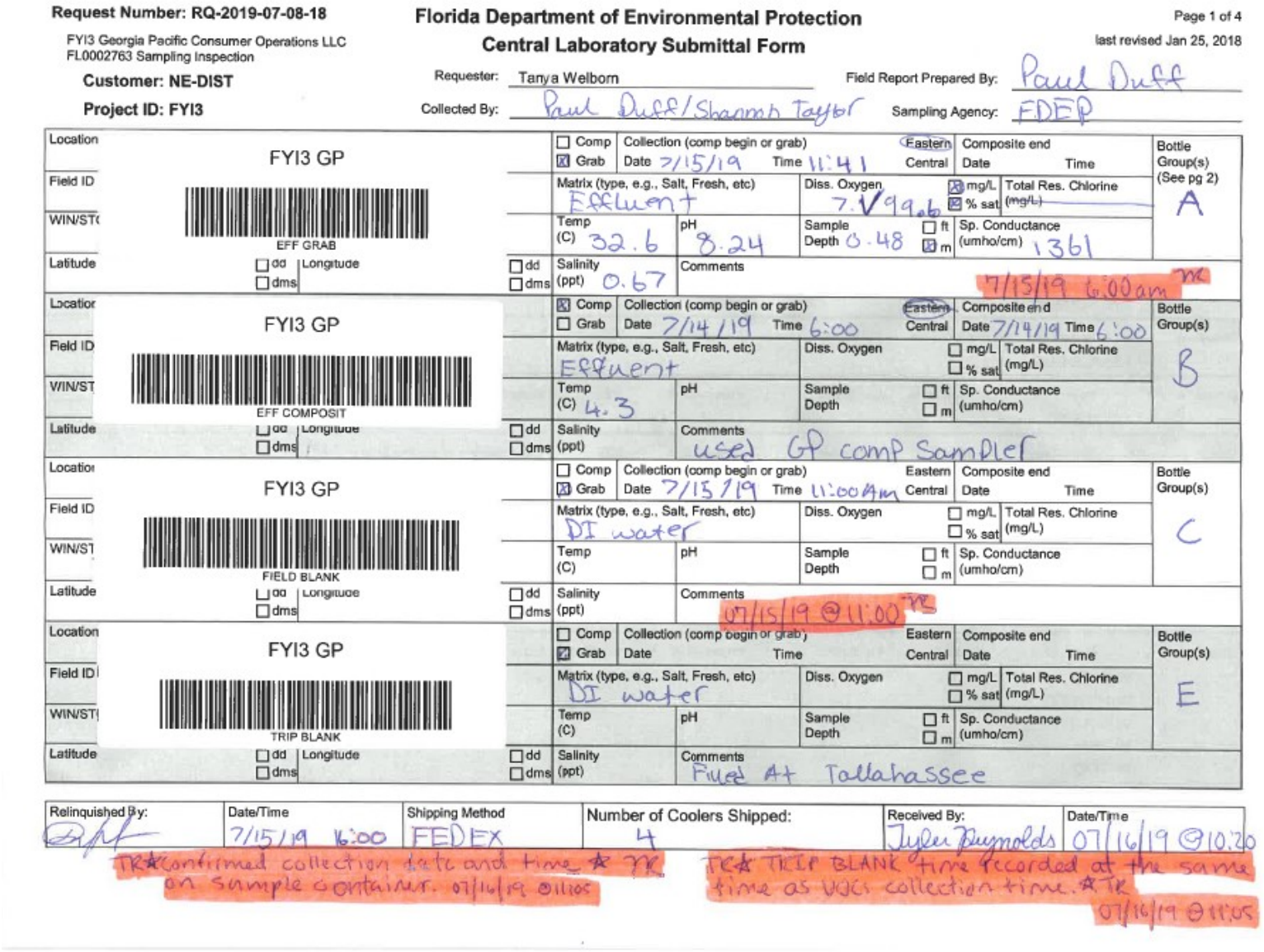
  The concentration of nutrients in a water sample may be used to calculate the expected yield of AGP under the assumption that other required nutrients (e.g. silicon, micronutrients) are present in excess (Miller *et al*. 1978). The expected amount of production is calculated as 38

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 62-302.530(62), F.A.C.

- **Definition of Qualifiers**

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-2019-07-08-18

FYI3 Georgia Pacific Consumer Operations LLC
FL0002763 Sampling Inspection

Customer: NE-DIST

Project ID: FYI3

Florida Department of Environmental Protection
Central Laboratory Submittal Form

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last revised Jan 25, 2018

Requester: Tanya Welborn
Field Report Prepared By: Paul Duff
Collected By: Paul Duff/Shannon Taylor
Sampling Agency: FDEP

Location: FYI3 GP	Field ID: EFF GRAB	WIN/ST:	Latitude: ☐dd ☐dms	Longitude: ☐dd ☐dms	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 7/15/19 Time 11:41	Eastern Central	Composite end Date Time	Bottle Group(s) (See pg 2): A	Matrix (type, e.g., Salt, Fresh, etc): Effluent	Diss. Oxygen: 7.1 / 99.6 ☒ mg/L ☒ % sat	Total Res. Chlorine (mg/L):	Temp (C): 32.6	pH: 8.24	Sample Depth: 0.48 ☐ ft ☒ m	Sp. Conductance (umho/cm): 1361	Salinity (ppt): 0.67	Comments: 7/15/19 6:00am TR
Location: FYI3 GP	Field ID: EFF COMPOSIT	WIN/ST:	Latitude: ☐dd ☐dms	Longitude: ☐dd ☐dms	☒ Comp ☐ Grab	Collection (comp begin or grab) Date 7/14/19 Time 6:00	Eastern Central	Composite end Date 7/14/19 Time 6:00	Bottle Group(s): B	Matrix (type, e.g., Salt, Fresh, etc): Effluent	Diss. Oxygen: ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L):	Temp (C): 4.3	pH:	Sample Depth: ☐ ft ☐ m	Sp. Conductance (umho/cm):	Salinity (ppt):	Comments: used GP comp Sampler
Location: FYI3 GP	Field ID: FIELD BLANK	WIN/ST:	Latitude: ☐dd ☐dms	Longitude: ☐dd ☐dms	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 7/15/19 Time 11:00AM	Eastern Central	Composite end Date Time	Bottle Group(s): C	Matrix (type, e.g., Salt, Fresh, etc): DI water	Diss. Oxygen: ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L):	Temp (C):	pH:	Sample Depth: ☐ ft ☐ m	Sp. Conductance (umho/cm):	Salinity (ppt):	Comments: 07/15/19 @11:00 TR
Location: FYI3 GP	Field ID: TRIP BLANK	WIN/ST:	Latitude: ☐dd ☐dms	Longitude: ☐dd ☐dms	☐ Comp ☒ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time	Bottle Group(s): E	Matrix (type, e.g., Salt, Fresh, etc): DI water	Diss. Oxygen: ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L):	Temp (C):	pH:	Sample Depth: ☐ ft ☐ m	Sp. Conductance (umho/cm):	Salinity (ppt):	Comments: Filled At Tallahassee

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
	7/15/19 6:00	FEDEX	4	Tyler Reynolds	07/16/19 @10:20

TR★confirmed collection date and time ★ TR on sample container. 07/16/19 @11:05

TR★ TRIP BLANK time recorded at the same time as VOCs collection time.★TR 07/16/19 @11:05

Request Number: RQ-2019-07-08-18

FYI3 Georgia Pacific Consumer Operations LLC
FL0002763 Sampling Inspection

Customer: NE-DIST

Project ID: FYI3

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Page 1 of 4
last revised Jan 25, 2018

Requester: Tanya Welborn
Collected By: Paul Duff/Shannon Taylor
Field Report Prepared By: Paul Duff
Sampling Agency: FDEP

FYI3 GP
EFF COMPOSIT

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

☒ Comp ☐ Grab | Collection (comp begin or grab) Date 8:00 AM Time 7/16/19 | Eastern Central | Composite end Date 7/17/19 Time 7:00 | Bottle Group(s) (See pg 2) B

Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) 4.0 | pH | Sample Depth ☐ ft ☐ m | Sp. Conductance (umho/cm)

Salinity (ppt) | Comments: Collected in bottle at 10:24 AM 7/17/19

FYI3 GP
FIELD BLANK

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

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 7/17/19 Time 10:10 AM | Eastern Central | Composite end Date Time | Bottle Group(s) C

Matrix (type, e.g., Salt, Fresh, etc) DI water | Diss. Oxygen ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) | pH | Sample Depth ☐ ft ☐ m | Sp. Conductance (umho/cm)

Salinity (ppt) | Comments

Location YSI meter reading
Field ID
WIN/STORET #
Latitude ☐dd ☐dms Longitude ☐dd ☐dms

☐ Comp ☐ Grab | Collection (comp begin or grab) Date 10:24 Time 7/17/19 | Eastern Central | Composite end Date Time | Bottle Group(s) X

Matrix (type, e.g., Salt, Fresh, etc) Eff | Diss. Oxygen 2.4 / 33 ☑ mg/L ☑ % sat | Total Res. Chlorine (mg/L)

Temp (C) 31.57 | pH 8.06 | Sample Depth 0.4 ☑ m | Sp. Conductance (umho/cm) 1362

Salinity (ppt) 0.67 | Comments

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

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

Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) | pH | Sample Depth ☐ ft ☐ m | Sp. Conductance (umho/cm)

Salinity (ppt) | Comments

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
	7/17/19 16:00	FEDEX	3		7-18-19 9:40

Lauren Yaeger 7.18.19 0955

Appendix D. Chemical Analysis of Effluent and Receiving Water

Date Sampled	Site	Analysis Group	Component	Result	Units	MDL	PQL
7/15/2019 6:00	Effluent Composite	Toxicology	Bioassay-Chron-Def-FW-Fish, IC25	No Result O	IC25		
7/15/2019 6:00	Effluent Composite	Toxicology	Bioassay-Chron-Def-FW-C.dubia, IC25	No Result O	IC25		
7/15/2019 6:00	Effluent Composite	Toxicology	Bioassay-Chron-Def-FW-Fish, NOEC	No Result O	NOEC		
7/15/2019 6:00	Effluent Composite	Toxicology	Bioassay-Chron-Def-FW-C.dubia, NOEC	No Result O	NOEC		
7/15/2019 6:00	Effluent Composite	Nutrients	Temperature	4.3	C		
7/17/2019 10:24	Effluent Composite	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	7.1 AJ	mg/L	0.2	2
7/17/2019 10:24	Effluent Composite	Nutrients	TSS	14	mg/L	2	10
7/17/2019 10:24	Effluent Composite	Overflow	2,3,7,8-TCDD	0.82 U	pg/L	0.82	
7/17/2019 10:24	Effluent Composite	Overflow	2,3,7,8-TCDF	0.46 U	pg/L	0.46	
7/17/2019 10:24	Effluent Composite	Overflow	Adsorbable Organic Halides	790	ug/L	6.2	
7/17/2019 10:24	Effluent Composite	Nutrients	Dissolved Oxygen	33	%Sat		
7/17/2019 10:24	Effluent Composite	Nutrients	Specific Conductance	1362	umhos/cm		
7/17/2019 10:24	Effluent Composite	Nutrients	pH	8.06			
7/17/2019 10:24	Effluent Composite	Nutrients	Temperature	31.57	C		
7/17/2019 10:24	Effluent Composite	Nutrients	Sample Depth	0.4	m		
7/17/2019 7:00	Effluent Composite	Nutrients	Temperature	4.0	C		
7/15/2019 11:41	Effluent Grab	AGP/LN	Algal Growth Potential	3.43	mg DryWt/L	0.3	0.9
7/15/2019 11:41	Effluent Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	120	ug/L	3.2	9.8
7/15/2019 11:41	Effluent Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	110	ug/L	4.5	13
7/15/2019 11:41	Effluent Grab	Chlorophyll/Grain Size/BOD	Phaeophytin-a	4.9 U	ug/L	4.9	15
7/15/2019 11:41	Effluent Grab	Overflow	Escherichia Coli-Quanti-Tray	10 U	MPN/100 mL	10	10
7/15/2019 11:41	Effluent Grab	Metals	Lead	0.20 U	ug/L	0.2	0.4
7/15/2019 11:41	Effluent Grab	Metals	Zinc	5.0 U	ug/L	5	20
7/15/2019 11:41	Effluent Grab	Metals	Iron	250	ug/L	30	120
7/15/2019 11:41	Effluent Grab	Metals	Magnesium	4.92	mg/L	0.04	0.16
7/15/2019 11:41	Effluent Grab	Metals	Chromium	0.69 I	ug/L	0.4	1.6
7/15/2019 11:41	Effluent Grab	Metals	Potassium	8.5	mg/L	0.3	1.2
7/15/2019 11:41	Effluent Grab	Metals	Aluminum	2.91E+03	ug/L	5	20
7/15/2019 11:41	Effluent Grab	Metals	Arsenic	0.75	ug/L	0.05	0.2
7/15/2019 11:41	Effluent Grab	Metals	Silver	0.010 U	ug/L	0.01	0.04

Date Sampled	Site	Analysis Group	Component	Result	Units	MDL	PQL
7/15/2019 11:41	Effluent Grab	Metals	Cadmium	0.020 U	ug/L	0.02	0.08
7/15/2019 11:41	Effluent Grab	Metals	Copper	0.40 U	ug/L	0.4	0.8
7/15/2019 11:41	Effluent Grab	Metals	Calcium	30.2	mg/L	0.075	0.3
7/15/2019 11:41	Effluent Grab	Metals	Sodium	259	mg/L	2.5	10
7/15/2019 11:41	Effluent Grab	Metals	Selenium	0.20 U	ug/L	0.2	0.8
7/15/2019 11:41	Effluent Grab	Metals	Nickel	0.95 I	ug/L	0.5	2
7/15/2019 11:41	Effluent Grab	Nutrients	Sulfate	230 A	mg SO4/L	2	6
7/15/2019 11:41	Effluent Grab	Nutrients	Color (true)	310	PCU	7.5	18
7/15/2019 11:41	Effluent Grab	Nutrients	Turbidity	24 A	NTU	0.1	0.13
7/15/2019 11:41	Effluent Grab	Nutrients	Organic Carbon	41	mg C/L	0.5	1
7/15/2019 11:41	Effluent Grab	Nutrients	Kjeldahl Nitrogen	2.6	mg N/L	0.08	0.2
7/15/2019 11:41	Effluent Grab	Nutrients	O-Phosphate-P	0.047	mg P/L	0.008	0.02
7/15/2019 11:41	Effluent Grab	Nutrients	Chloride	90 A	mg Cl/L	2	6
7/15/2019 11:41	Effluent Grab	Nutrients	Ammonia-N	0.080	mg N/L	0.004	0.01
7/15/2019 11:41	Effluent Grab	Nutrients	Fluoride	0.069 I	mg F/L	0.035	0.1
7/15/2019 11:41	Effluent Grab	Nutrients	Total Alkalinity	285 A	mg CaCO3/L	0.65	2.5
7/15/2019 11:41	Effluent Grab	Nutrients	Total-P	0.30	mg P/L	0.005	0.05
7/15/2019 11:41	Effluent Grab	Nutrients	NO2NO3-N	0.017	mg N/L	0.004	0.01
7/15/2019 11:41	Effluent Grab	Pesticides	Alachlor	0.060 U	ug/L	0.06	0.24
7/15/2019 11:41	Effluent Grab	Pesticides	Azinphos Methyl	0.091 U	ug/L	0.091	0.36
7/15/2019 11:41	Effluent Grab	Pesticides	Malathion	0.010 U	ug/L	0.01	0.04
7/15/2019 11:41	Effluent Grab	Pesticides	Bromacil	0.040 U	ug/L	0.04	0.16
7/15/2019 11:41	Effluent Grab	Pesticides	Fonofos	0.010 U	ug/L	0.01	0.04
7/15/2019 11:41	Effluent Grab	Pesticides	Mevinphos	0.010 U	ug/L	0.01	0.04
7/15/2019 11:41	Effluent Grab	Pesticides	Ametryn	0.010 U	ug/L	0.01	0.04
7/15/2019 11:41	Effluent Grab	Pesticides	Atrazine	0.010 U	ug/L	0.01	0.04
7/15/2019 11:41	Effluent Grab	Pesticides	Atrazine Desisopropyl	0.010 U	ug/L	0.01	0.04
7/15/2019 11:41	Effluent Grab	Pesticides	Butylate	0.050 U	ug/L	0.05	0.2
7/15/2019 11:41	Effluent Grab	Pesticides	Chlorpyrifos Ethyl	0.010 U	ug/L	0.01	0.04
7/15/2019 11:41	Effluent Grab	Pesticides	Hexazinone	0.070 U	ug/L	0.07	0.28
7/15/2019 11:41	Effluent Grab	Pesticides	Metolachlor	0.12 U	ug/L	0.12	0.48
7/15/2019 11:41	Effluent Grab	Pesticides	Metribuzin	0.050 U	ug/L	0.05	0.2
7/15/2019 11:41	Effluent Grab	Pesticides	Naled	0.081 UJ	ug/L	0.081	0.32
7/15/2019 11:41	Effluent Grab	Pesticides	Atrazine Desethyl	0.010 U	ug/L	0.01	0.04

Date Sampled	Site	Analysis Group	Component	Result	Units	MDL	PQL
7/15/2019 11:41	Effluent Grab	Pesticides	Diazinon	0.010 U	ug/L	0.01	0.04
7/15/2019 11:41	Effluent Grab	Pesticides	Simazine	0.010 U	ug/L	0.01	0.04
7/15/2019 11:41	Effluent Grab	Pesticides	Chlorpyrifos Methyl	0.010 U	ug/L	0.01	0.04
7/15/2019 11:41	Effluent Grab	Pesticides	Ethion	0.010 U	ug/L	0.01	0.04
7/15/2019 11:41	Effluent Grab	Pesticides	Fenamiphos	0.030 UJ	ug/L	0.03	0.12
7/15/2019 11:41	Effluent Grab	Pesticides	Metalaxyl	0.18 U	ug/L	0.18	0.73
7/15/2019 11:41	Effluent Grab	Pesticides	Parathion Ethyl	0.020 U	ug/L	0.02	0.081
7/15/2019 11:41	Effluent Grab	Pesticides	Prometryn	0.020 U	ug/L	0.02	0.081
7/15/2019 11:41	Effluent Grab	Pesticides	Sucralose	0.088	ug/L	0.01	0.04
7/15/2019 11:41	Effluent Grab	Pesticides	Disulfoton	0.0050 U	ug/L	0.005	0.02
7/15/2019 11:41	Effluent Grab	Pesticides	Phorate	0.0050 U	ug/L	0.005	0.02
7/15/2019 11:41	Effluent Grab	Pesticides	Prometon	0.020 U	ug/L	0.02	0.081
7/15/2019 11:41	Effluent Grab	Pesticides	Demeton	0.024 U	ug/L	0.024	0.097
7/15/2019 11:41	Effluent Grab	Pesticides	Ethoprop	0.0050 U	ug/L	0.005	0.02
7/15/2019 11:41	Effluent Grab	Pesticides	Norflurazon	0.050 U	ug/L	0.05	0.2
7/15/2019 11:41	Effluent Grab	Pesticides	Parathion Methyl	0.010 U	ug/L	0.01	0.04
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Tetrachloroethene	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Vinyl chloride	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	cis-1,3-Dichloropropene	0.50 UY	ug/L	0.5	2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.051 U	ug/L	0.051	0.2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	2,4-Dimethylphenol	0.051 U	ug/L	0.051	0.2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.1 U	ug/L	3.1	12
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.051 U	ug/L	0.051	0.2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.026 U	ug/L	0.026	0.1
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.051 U	ug/L	0.051	0.2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Chrysene	0.026 U	ug/L	0.026	0.1
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Diethyl phthalate	2.0 U	ug/L	2	8.2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Dimethyl phthalate	0.051 U	ug/L	0.051	0.2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Naphthalene	0.10 U	ug/L	0.1	0.41
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Nitrobenzene	0.051 U	ug/L	0.051	0.2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	1,2-Dichlorobenzene	0.50 UY	ug/L	0.5	2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Bromodichloromethane	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Carbon tetrachloride	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Chloroethane	0.50 UY	ug/L	0.5	2

Date Sampled	Site	Analysis Group	Component	Result	Units	MDL	PQL
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	2,4-Dichlorophenol	0.051 U	ug/L	0.051	0.2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	2,4-Dinitrotoluene	0.051 U	ug/L	0.051	0.2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	2-Chlorophenol	0.051 U	ug/L	0.051	0.2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	3,3'-Dichlorobenzidine	10 U	ug/L	10	41
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.051 U	ug/L	0.051	0.2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Benzo(a)pyrene	0.026 U	ug/L	0.026	0.1
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Di-n-butyl phthalate	2.0 U	ug/L	2	8.2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Fluoranthene	0.026 U	ug/L	0.026	0.1
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Hexachlorobutadiene	0.051 U	ug/L	0.051	0.2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Phenol	0.051 U	ug/L	0.051	0.2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	1,3-Dichlorobenzene	0.50 UY	ug/L	0.5	2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.051 U	ug/L	0.051	0.2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	0.10 U	ug/L	0.1	0.41
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Benzene	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	trans-1,3-Dichloropropene	0.50 UY	ug/L	0.5	2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Acenaphthylene	0.026 U	ug/L	0.026	0.1
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Benzidine	10 U	ug/L	10	41
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.051 U	ug/L	0.051	0.2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Pyrene	0.10 U	ug/L	0.1	0.41
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Bromomethane	0.50 UY	ug/L	0.5	2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Toluene	0.50 UY	ug/L	0.5	2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	4-Nitrophenol	10 U	ug/L	10	41
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Benzo(a)anthracene	0.026 U	ug/L	0.026	0.1
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Benzo(b)fluoranthene	0.026 U	ug/L	0.026	0.1
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Benzo(k)fluoranthene	0.026 U	ug/L	0.026	0.1
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Di-n-octyl phthalate	0.051 U	ug/L	0.051	0.2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Hexachloroethane	0.051 U	ug/L	0.051	0.2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Pentachlorophenol	0.51 U	ug/L	0.51	2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	1,1,2-Trichloroethane	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	1,1-Dichloroethane	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	1,2-Dichloropropane	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Bromoform	0.50 UY	ug/L	0.5	2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Chloroform	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.051 U	ug/L	0.051	0.2

Date Sampled	Site	Analysis Group	Component	Result	Units	MDL	PQL
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	2-Chloronaphthalene	0.051 U	ug/L	0.051	0.2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.051 U	ug/L	0.051	0.2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Butyl benzyl phthalate	1.0 U	ug/L	1	4.1
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.026 U	ug/L	0.026	0.1
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Hexachlorobenzene	0.051 U	ug/L	0.051	0.2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Phenanthrene	0.10 U	ug/L	0.1	0.41
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	1,1,1-Trichloroethane	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Chlorobenzene	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Methylene chloride	1.0 UY	ug/L	1	4
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Trichloroethene	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Trichlorofluoromethane	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	2,6-Dinitrotoluene	0.051 U	ug/L	0.051	0.2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Acenaphthene	0.026 U	ug/L	0.026	0.1
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.051 U	ug/L	0.051	0.2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	N-Nitrosodimethylamine	2.0 U	ug/L	2	8.2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.051 U	ug/L	0.051	0.2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	1,1,2,2-Tetrachloroethane	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	1,2-Dichloroethane	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Chloromethane	0.50 UYJ	ug/L	0.5	2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Dibromochloromethane	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Ethylbenzene	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	2,4-Dinitrophenol	10 U	ug/L	10	41
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	2-Nitrophenol	0.051 U	ug/L	0.051	0.2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Anthracene	0.051 U	ug/L	0.051	0.2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	5.1 UJ	ug/L	5.1	20
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Fluorene	0.026 U	ug/L	0.026	0.1
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.026 U	ug/L	0.026	0.1
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	Isophorone	0.051 U	ug/L	0.051	0.2
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	1,1-Dichloroethene	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:41	Effluent Grab	Priority Organic Pollutants	1,4-Dichlorobenzene	0.50 UY	ug/L	0.5	2
7/15/2019 11:41	Effluent Grab	Nutrients	Dissolved Oxygen	99.6	%Sat		
7/15/2019 11:41	Effluent Grab	Nutrients	Temperature	32.6	C		
7/15/2019 11:41	Effluent Grab	Nutrients	pH	8.24			
7/15/2019 11:41	Effluent Grab	Nutrients	Sample Depth	0.48	m		

Date Sampled	Site	Analysis Group	Component	Result	Units	MDL	PQL
7/15/2019 11:41	Effluent Grab	Nutrients	Specific Conductance	1361	umhos/cm		
7/15/2019 11:00	Blank	Metals	Zinc	5.0 U	ug/L	5	20
7/15/2019 11:00	Blank	Metals	Magnesium	0.040 U	mg/L	0.04	0.16
7/15/2019 11:00	Blank	Metals	Nickel	0.50 U	ug/L	0.5	2
7/15/2019 11:00	Blank	Metals	Arsenic	0.050 U	ug/L	0.05	0.2
7/15/2019 11:00	Blank	Metals	Selenium	0.20 U	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Metals	Cadmium	0.020 U	ug/L	0.02	0.08
7/15/2019 11:00	Blank	Metals	Silver	0.010 U	ug/L	0.01	0.04
7/15/2019 11:00	Blank	Metals	Sodium	0.50 U	mg/L	0.5	2
7/15/2019 11:00	Blank	Metals	Potassium	0.30 U	mg/L	0.3	1.2
7/15/2019 11:00	Blank	Metals	Iron	30 U	ug/L	30	120
7/15/2019 11:00	Blank	Metals	Copper	0.40 U	ug/L	0.4	0.8
7/15/2019 11:00	Blank	Metals	Aluminum	5.0 U	ug/L	5	20
7/15/2019 11:00	Blank	Metals	Chromium	0.40 U	ug/L	0.4	1.6
7/15/2019 11:00	Blank	Metals	Lead	0.20 U	ug/L	0.2	0.4
7/15/2019 11:00	Blank	Metals	Calcium	0.075 U	mg/L	0.075	0.3
7/15/2019 11:00	Blank	Nutrients	O-Phosphate-P	0.004 U	mg P/L	0.004	0.01
7/15/2019 11:00	Blank	Nutrients	Color (true)	2.5 U	PCU	2.5	6
7/15/2019 11:00	Blank	Nutrients	Organic Carbon	0.50 U	mg C/L	0.5	1
7/15/2019 11:00	Blank	Nutrients	Chloride	0.20 U	mg Cl/L	0.2	0.6
7/15/2019 11:00	Blank	Nutrients	Sulfate	0.20 U	mg SO4/L	0.2	0.6
7/15/2019 11:00	Blank	Nutrients	Fluoride	0.035 U	mg F/L	0.035	0.1
7/15/2019 11:00	Blank	Nutrients	Total-P	0.002 U	mg P/L	0.002	0.005
7/15/2019 11:00	Blank	Nutrients	Total Alkalinity	2.5	mg CaCO3/L	0.65	2.5
7/15/2019 11:00	Blank	Nutrients	NO2NO3-N	0.004 U	mg N/L	0.004	0.01
7/15/2019 11:00	Blank	Nutrients	Kjeldahl Nitrogen	0.080 U	mg N/L	0.08	0.2
7/15/2019 11:00	Blank	Nutrients	Turbidity	0.10 U	NTU	0.1	0.13
7/15/2019 11:00	Blank	Nutrients	Ammonia-N	0.002 U	mg N/L	0.002	0.005
7/15/2019 11:00	Blank	Pesticides	Diazinon	0.010 U	ug/L	0.01	0.04
7/15/2019 11:00	Blank	Pesticides	Disulfoton	0.0050 U	ug/L	0.005	0.02
7/15/2019 11:00	Blank	Pesticides	Hexazinone	0.071 U	ug/L	0.071	0.28
7/15/2019 11:00	Blank	Pesticides	Norflurazon	0.050 U	ug/L	0.05	0.2
7/15/2019 11:00	Blank	Pesticides	Malathion	0.010 U	ug/L	0.01	0.04
7/15/2019 11:00	Blank	Pesticides	Metribuzin	0.050 U	ug/L	0.05	0.2

Date Sampled	Site	Analysis Group	Component	Result	Units	MDL	PQL
7/15/2019 11:00	Blank	Pesticides	Mevinphos	0.010 U	ug/L	0.01	0.04
7/15/2019 11:00	Blank	Pesticides	Parathion Methyl	0.010 U	ug/L	0.01	0.04
7/15/2019 11:00	Blank	Pesticides	Sucralose	0.010 U	ug/L	0.01	0.04
7/15/2019 11:00	Blank	Pesticides	Alachlor	0.061 U	ug/L	0.061	0.24
7/15/2019 11:00	Blank	Pesticides	Butylate	0.050 U	ug/L	0.05	0.2
7/15/2019 11:00	Blank	Pesticides	Bromacil	0.040 U	ug/L	0.04	0.16
7/15/2019 11:00	Blank	Pesticides	Chlorpyrifos Methyl	0.010 U	ug/L	0.01	0.04
7/15/2019 11:00	Blank	Pesticides	Ethion	0.010 U	ug/L	0.01	0.04
7/15/2019 11:00	Blank	Pesticides	Fonofos	0.010 U	ug/L	0.01	0.04
7/15/2019 11:00	Blank	Pesticides	Naled	0.081 UJ	ug/L	0.081	0.32
7/15/2019 11:00	Blank	Pesticides	Parathion Ethyl	0.020 U	ug/L	0.02	0.081
7/15/2019 11:00	Blank	Pesticides	Atrazine Desethyl	0.010 U	ug/L	0.01	0.04
7/15/2019 11:00	Blank	Pesticides	Azinphos Methyl	0.091 U	ug/L	0.091	0.36
7/15/2019 11:00	Blank	Pesticides	Fenamiphos	0.030 UJ	ug/L	0.03	0.12
7/15/2019 11:00	Blank	Pesticides	Metolachlor	0.12 U	ug/L	0.12	0.48
7/15/2019 11:00	Blank	Pesticides	Simazine	0.010 U	ug/L	0.01	0.04
7/15/2019 11:00	Blank	Pesticides	Ametryn	0.010 U	ug/L	0.01	0.04
7/15/2019 11:00	Blank	Pesticides	Atrazine Desisopropyl	0.010 U	ug/L	0.01	0.04
7/15/2019 11:00	Blank	Pesticides	Ethoprop	0.0050 U	ug/L	0.005	0.02
7/15/2019 11:00	Blank	Pesticides	Metalaxyl	0.18 U	ug/L	0.18	0.73
7/15/2019 11:00	Blank	Pesticides	Prometon	0.020 U	ug/L	0.02	0.081
7/15/2019 11:00	Blank	Pesticides	Chlorpyrifos Ethyl	0.010 U	ug/L	0.01	0.04
7/15/2019 11:00	Blank	Pesticides	Demeton	0.024 U	ug/L	0.024	0.097
7/15/2019 11:00	Blank	Pesticides	Phorate	0.0050 U	ug/L	0.005	0.02
7/15/2019 11:00	Blank	Pesticides	Atrazine	0.010 U	ug/L	0.01	0.04
7/15/2019 11:00	Blank	Pesticides	Prometryn	0.020 U	ug/L	0.02	0.081
7/15/2019 11:00	Blank	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.026 U	ug/L	0.026	0.1
7/15/2019 11:00	Blank	Priority Organic Pollutants	Pentachlorophenol	0.51 U	ug/L	0.51	2
7/15/2019 11:00	Blank	Priority Organic Pollutants	1,1,1-Trichloroethane	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	1,3-Dichlorobenzene	0.50 UY	ug/L	0.5	2
7/15/2019 11:00	Blank	Priority Organic Pollutants	Chloroform	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	Dibromochloromethane	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	3,3'-Dichlorobenzidine	10 U	ug/L	10	41
7/15/2019 11:00	Blank	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.051 U	ug/L	0.051	0.2

Date Sampled	Site	Analysis Group	Component	Result	Units	MDL	PQL
7/15/2019 11:00	Blank	Priority Organic Pollutants	Benzo(k)fluoranthene	0.026 U	ug/L	0.026	0.1
7/15/2019 11:00	Blank	Priority Organic Pollutants	Fluorene	0.026 U	ug/L	0.026	0.1
7/15/2019 11:00	Blank	Priority Organic Pollutants	Isophorone	0.051 U	ug/L	0.051	0.2
7/15/2019 11:00	Blank	Priority Organic Pollutants	Bromodichloromethane	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	Bromoform	0.50 UY	ug/L	0.5	2
7/15/2019 11:00	Blank	Priority Organic Pollutants	Bromomethane	0.50 UY	ug/L	0.5	2
7/15/2019 11:00	Blank	Priority Organic Pollutants	Chlorobenzene	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	Ethylbenzene	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	Trichloroethene	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	Nitrobenzene	0.051 U	ug/L	0.051	0.2
7/15/2019 11:00	Blank	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.1 U	ug/L	3.1	12
7/15/2019 11:00	Blank	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.051 U	ug/L	0.051	0.2
7/15/2019 11:00	Blank	Priority Organic Pollutants	Di-n-octyl phthalate	0.051 U	ug/L	0.051	0.2
7/15/2019 11:00	Blank	Priority Organic Pollutants	N-Nitrosodimethylamine	2.0 U	ug/L	2	8.2
7/15/2019 11:00	Blank	Priority Organic Pollutants	1,2-Dichloropropane	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	trans-1,3-Dichloropropene	0.50 UY	ug/L	0.5	2
7/15/2019 11:00	Blank	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.051 U	ug/L	0.051	0.2
7/15/2019 11:00	Blank	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.051 U	ug/L	0.051	0.2
7/15/2019 11:00	Blank	Priority Organic Pollutants	2,4-Dinitrophenol	10 U	ug/L	10	41
7/15/2019 11:00	Blank	Priority Organic Pollutants	2,4-Dinitrotoluene	0.051 U	ug/L	0.051	0.2
7/15/2019 11:00	Blank	Priority Organic Pollutants	4-Nitrophenol	10 U	ug/L	10	41
7/15/2019 11:00	Blank	Priority Organic Pollutants	Anthracene	0.051 U	ug/L	0.051	0.2
7/15/2019 11:00	Blank	Priority Organic Pollutants	Phenol	0.051 U	ug/L	0.051	0.2
7/15/2019 11:00	Blank	Priority Organic Pollutants	1,1,2,2-Tetrachloroethane	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	1,4-Dichlorobenzene	0.50 UY	ug/L	0.5	2
7/15/2019 11:00	Blank	Priority Organic Pollutants	Carbon tetrachloride	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	Tetrachloroethene	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	Vinyl chloride	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	2-Chloronaphthalene	0.051 U	ug/L	0.051	0.2
7/15/2019 11:00	Blank	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.051 U	ug/L	0.051	0.2
7/15/2019 11:00	Blank	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.051 U	ug/L	0.051	0.2
7/15/2019 11:00	Blank	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	5.1 UJ	ug/L	5.1	20
7/15/2019 11:00	Blank	Priority Organic Pollutants	Butyl benzyl phthalate	1.0 U	ug/L	1	4.1
7/15/2019 11:00	Blank	Priority Organic Pollutants	Dimethyl phthalate	0.051 U	ug/L	0.051	0.2

Date Sampled	Site	Analysis Group	Component	Result	Units	MDL	PQL
7/15/2019 11:00	Blank	Priority Organic Pollutants	Hexachlorobenzene	0.051 U	ug/L	0.051	0.2
7/15/2019 11:00	Blank	Priority Organic Pollutants	Phenanthrene	0.10 U	ug/L	0.1	0.41
7/15/2019 11:00	Blank	Priority Organic Pollutants	Pyrene	0.10 U	ug/L	0.1	0.41
7/15/2019 11:00	Blank	Priority Organic Pollutants	1,1,2-Trichloroethane	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	1,1-Dichloroethane	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	1,1-Dichloroethene	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	1,2-Dichloroethane	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	2,4-Dichlorophenol	0.051 U	ug/L	0.051	0.2
7/15/2019 11:00	Blank	Priority Organic Pollutants	2-Chlorophenol	0.051 U	ug/L	0.051	0.2
7/15/2019 11:00	Blank	Priority Organic Pollutants	Acenaphthene	0.026 U	ug/L	0.026	0.1
7/15/2019 11:00	Blank	Priority Organic Pollutants	Acenaphthylene	0.026 U	ug/L	0.026	0.1
7/15/2019 11:00	Blank	Priority Organic Pollutants	Benzo(a)anthracene	0.026 U	ug/L	0.026	0.1
7/15/2019 11:00	Blank	Priority Organic Pollutants	Di-n-butyl phthalate	2.0 U	ug/L	2	8.2
7/15/2019 11:00	Blank	Priority Organic Pollutants	Diethyl phthalate	2.0 U	ug/L	2	8.2
7/15/2019 11:00	Blank	Priority Organic Pollutants	Fluoranthene	0.026 U	ug/L	0.026	0.1
7/15/2019 11:00	Blank	Priority Organic Pollutants	Hexachloroethane	0.051 U	ug/L	0.051	0.2
7/15/2019 11:00	Blank	Priority Organic Pollutants	1,2-Dichlorobenzene	0.50 UY	ug/L	0.5	2
7/15/2019 11:00	Blank	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.051 U	ug/L	0.051	0.2
7/15/2019 11:00	Blank	Priority Organic Pollutants	Chrysene	0.026 U	ug/L	0.026	0.1
7/15/2019 11:00	Blank	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.026 U	ug/L	0.026	0.1
7/15/2019 11:00	Blank	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.051 U	ug/L	0.051	0.2
7/15/2019 11:00	Blank	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	0.10 U	ug/L	0.1	0.41
7/15/2019 11:00	Blank	Priority Organic Pollutants	Chloroethane	0.50 UY	ug/L	0.5	2
7/15/2019 11:00	Blank	Priority Organic Pollutants	Chloromethane	0.50 UY	ug/L	0.5	2
7/15/2019 11:00	Blank	Priority Organic Pollutants	Toluene	0.50 UY	ug/L	0.5	2
7/15/2019 11:00	Blank	Priority Organic Pollutants	Trichlorofluoromethane	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	cis-1,3-Dichloropropene	0.50 UY	ug/L	0.5	2
7/15/2019 11:00	Blank	Priority Organic Pollutants	2,4-Dimethylphenol	0.051 U	ug/L	0.051	0.2
7/15/2019 11:00	Blank	Priority Organic Pollutants	2,6-Dinitrotoluene	0.051 U	ug/L	0.051	0.2
7/15/2019 11:00	Blank	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.051 U	ug/L	0.051	0.2
7/15/2019 11:00	Blank	Priority Organic Pollutants	Benzidine	10 U	ug/L	10	41
7/15/2019 11:00	Blank	Priority Organic Pollutants	Benzo(a)pyrene	0.026 U	ug/L	0.026	0.1
7/15/2019 11:00	Blank	Priority Organic Pollutants	Benzo(b)fluoranthene	0.026 U	ug/L	0.026	0.1
7/15/2019 11:00	Blank	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.026 U	ug/L	0.026	0.1

Date Sampled	Site	Analysis Group	Component	Result	Units	MDL	PQL
7/15/2019 11:00	Blank	Priority Organic Pollutants	Hexachlorobutadiene	0.051 U	ug/L	0.051	0.2
7/15/2019 11:00	Blank	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.051 U	ug/L	0.051	0.2
7/15/2019 11:00	Blank	Priority Organic Pollutants	Naphthalene	0.10 U	ug/L	0.1	0.41
7/15/2019 11:00	Blank	Priority Organic Pollutants	Benzene	0.20 UY	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	Methylene chloride	1.0 UY	ug/L	1	4
7/15/2019 11:00	Blank	Priority Organic Pollutants	2-Nitrophenol	0.051 U	ug/L	0.051	0.2
7/15/2019 11:00	Blank	Priority Organic Pollutants	Benzene	0.20 U	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	Toluene	0.50 U	ug/L	0.5	2
7/15/2019 11:00	Blank	Priority Organic Pollutants	trans-1,3-Dichloropropene	0.50 U	ug/L	0.5	2
7/15/2019 11:00	Blank	Priority Organic Pollutants	Trichlorofluoromethane	0.20 U	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	1,4-Dichlorobenzene	0.50 U	ug/L	0.5	2
7/15/2019 11:00	Blank	Priority Organic Pollutants	Tetrachloroethene	0.20 U	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	Chloromethane	0.50 U	ug/L	0.5	2
7/15/2019 11:00	Blank	Priority Organic Pollutants	1,2-Dichloropropane	0.20 U	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	1,3-Dichlorobenzene	0.50 U	ug/L	0.5	2
7/15/2019 11:00	Blank	Priority Organic Pollutants	Bromoform	0.50 U	ug/L	0.5	2
7/15/2019 11:00	Blank	Priority Organic Pollutants	1,2-Dichlorobenzene	0.50 U	ug/L	0.5	2
7/15/2019 11:00	Blank	Priority Organic Pollutants	Chlorobenzene	0.20 U	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	Chloroform	0.20 U	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	Ethylbenzene	0.20 U	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	1,1,2,2-Tetrachloroethane	0.20 U	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	1,1,2-Trichloroethane	0.20 U	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	1,1-Dichloroethane	0.20 U	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	Dibromochloromethane	0.20 U	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	cis-1,3-Dichloropropene	0.50 U	ug/L	0.5	2
7/15/2019 11:00	Blank	Priority Organic Pollutants	1,1,1-Trichloroethane	0.20 U	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	1,2-Dichloroethane	0.20 U	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	Carbon tetrachloride	0.20 U	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	Trichloroethene	0.20 U	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	Vinyl chloride	0.20 U	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	Bromodichloromethane	0.20 U	ug/L	0.2	0.8
7/15/2019 11:00	Blank	Priority Organic Pollutants	Bromomethane	0.50 U	ug/L	0.5	2
7/15/2019 11:00	Blank	Priority Organic Pollutants	Chloroethane	0.50 U	ug/L	0.5	2
7/15/2019 11:00	Blank	Priority Organic Pollutants	Methylene chloride	1.0 U	ug/L	1	4

Date Sampled	Site	Analysis Group	Component	Result	Units	MDL	PQL
7/15/2019 11:00	Blank	Priority Organic Pollutants	1,1-Dichloroethene	0.20 U	ug/L	0.2	0.8
7/17/2019 10:10	Blank	Overflow	Adsorbable Organic Halides	22 J	ug/L	6.2	
7/17/2019 10:10	Blank	Overflow	2,3,7,8-TCDD	0.32 U	pg/L	0.32	
7/17/2019 10:10	Blank	Overflow	2,3,7,8-TCDF	0.19 U	pg/L	0.19	