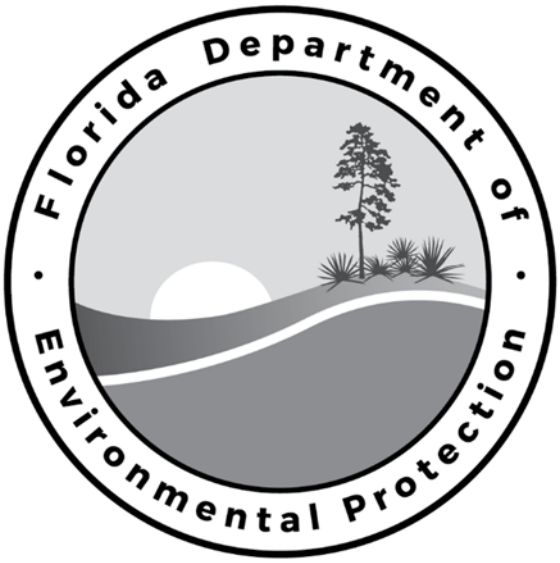


Effluent Quality Assessment of

Georgia-Pacific (Palatka Pulp & Paper)

Putnam County

NPDES # FL0002763

Sampled March 6, 8, and 10, 2017

July 2017

Biology Program

DEP Laboratory

Division of Environmental Assessment and Restoration

DEP Laboratory Quality Manual

NELAC Certification No. E31780

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Georgia-Pacific (Palatka Pulp & Paper), 215 Country Road 216, Palatka, Putnam County, Florida, 32177. NPDES #FL0002763.

Facility Overview

Georgia-Pacific (Palatka Pulp & Paper) uses a primary clarification system followed by secondary treatment consisting of facultative and aerobic lagoons. See Appendix A for a description of the facility, summary of permit limits, Administrative Order (AO) and Discharge Monitoring Report (DMR) information.

Methods

Effluent composite samples for toxicity testing were collected on March 6, 8, and 10, 2017. Effluent composite samples for biological and chemical analyses for this facility were collected on March 6, 2017. All samples were collected from the EFF-03 NPDES sampling point for Outfall D-003 by Nick Williams and Brittany Dion (FDEP Northeast Regional Operation Center).

All field and laboratory methods followed FDEP Standard Operating Procedures (see http://www.dep.state.fl.us/labs/library/lab_sops.htm and http://www.dep.state.fl.us/water/sas/sop/sops.htm for details) and met DEP quality assurance/quality control standards (see http://www.dep.state.fl.us/water/sas/qa/index.htm). Explanations of specific methods and measurements can be found in Appendix B.

All references to 62-302.530, F.A.C. are to the final surface water quality criteria table with an effective date of 08/01/2013 and a notice identification number of 13249441.

Results

Chemistry Results (See Table 1, Table 2, Table 3 and Appendix C)

- Receiving Waters for this facility fall within the Peninsular Nutrient Watershed Region for Numeric Nutrient Criteria (NNC). This FYI event can only provide single sample results, therefore, compliance should be determined with additional sampling events.
    - http://ca.dep.state.fl.us/mapdirect/?focus=nutrientcriteria

- The total ammonia concentration in the composite sample collected and preserved for chemical analysis was 1.9 mg N/L. Based on the pH, salinity, and temperature of the effluent as collected, the calculated unionized ammonia concentration was 0.037 mg/L. This value exceeds the Class III Freshwater Quality Criteria for unionized ammonia (≤ 0.02 mg/L (62-302.530 (3), F.A.C.)); however, the permitted limit of 0.11 mg/L was not exceeded.

- Alkalinity, arsenic, cadmium, chromium III, copper, iron, lead, nickel, total suspended solids, turbidity and zinc were detected in the effluent at levels that comply with Class III Freshwater Quality Criteria (62-302.530, F.A.C.) and/or permitted limits. Fluoride and silver were detected between the laboratory method detection limits (MDL) and practical quantitation limits (PQL). True color exceeded the permitted limit. The effluent's dissolved oxygen (1.37 mg/L and 1.25 mg/L) measurements taken on sampling days 2 and 3 exceeded the Class III Freshwater Quality Criterion and permitted limits. The effluent's specific conductance, measured in the laboratory on day 1 and in the field on days 2 and 3, exceeded the Class III Freshwater Quality Criterion but not the permitted limit.

Algal Growth Potential (See Table 4 and Appendix C)

- The effluent Algal Growth Potential (AGP) was 28.4 mg dry wt/L of the unicellular green alga, *Pseudokirchneriella subcapitata*, formerly known as *Selenastrum capricornutum.*
- The effluent AGP result is greater than the AGP range (6.10 to 20.0 mg dry wt/L) suggested to be representative of high productivity for freshwater (Miller et al. 1978).
- Based on an apparent salinity of 1.07 parts per thousand (ppth), an aliquot of the AGP sample was salinity adjusted to a salinity of approximately 7.12 ppth by the addition of artificial sea salts to meet the salinity requirements of the marine test species, *Dunaliella tertiolecta*.
- The salinity adjusted AGP was 40 mg dry wt/L of the saltwater species, *Dunaliella tertiolecta.*
- The analytical chemistry suggests that the effluent is nitrogen limited (Miller et al. 1978; Maloney et al. 1974).

Toxicity Test Results (See Appendix C)

- Tests were performed March 7 through 14, 2017.
- Chronic bioassay results are reported as the 25% Inhibition Concentration (IC25) and the No Observed Effect Concentration (NOEC)*

  Ceriodaphnia dubia 7-day chronic definitive bioassay – IC25: 88%
  No Observed Effect Concentration (NOEC) is 55.9%

  Pimephales promelas 7-day chronic definitive bioassay – IC25: > 100%
  No Observed Effect Concentration (NOEC) is 100%

  *NOTE: 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(61) 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(61) and/or facility permit limits.

- The bioassay samples were chronically toxic to the *Ceriodaphnia dubia* test organisms but not to the *Pimephales promelas* test organisms. The permitted limit for IC25 of ≥ 11.7% effluent for this facility was not exceeded.

Conclusion

The effluent samples collected from the EFF-3 NPDES sampling point for this facility on March 6, 8, and 10, 2017, were not chronically toxic to the test species *Pimephales promelas* during the 7-day chronic definitive bioassay. The samples were toxic to the test species *Ceriodaphnia dubia*, but did not exceed the permit limit. The aluminum concentration was 4,730 µg/L, which exceeds the MATC (maximum acceptable toxicant concentration) of 1,600 - 1,900 µg/L of aluminum reported for reproductive effects on *C. dubia* (McCauley, D. J., *et al*., 1986). The MATC is a hypothetical toxic threshold concentration which lies between the No Observed Effect Concentration (NOEC) and the Lowest Observed Effect Concentration (LOEC). These levels are also much higher than EPA's proposed freshwater ambient water quality criteria (1988) for aluminum; 1,496 µg/L acute and 87 µg/L chronic. The aluminum concentration may have been at least in part, responsible for the reduced reproduction in the *C. dubia* bioassay. The AGP result for the freshwater species (*Pseudokirchneriella subcapitata*) was greater than the AGP range (6.10-20.0 mg dry wt/L) suggested to be representative of high productivity for fresh water. Therefore, the effluent has the potential to contribute nutrient enrichment to the receiving water. Nutrient chemistry suggests that the effluent is nitrogen limited. Effluent water quality samples exceeded Class III Freshwater Criteria for specific conductance but did not exceed the permitted effluent limit. Effluent true color and dissolved oxygen exceeded permitted effluent limits.

For additional information concerning this sampling event, including bioassay bench sheets and SRT data, please contact Amelia.Rankin@dep.state.fl.us and/or Joseph.Faircloth@dep.state.fl.us.

Literature Cited

Miller, W. E., T. E. Maloney, and J. C. Greene. 1978. The *Selenastrum capricornutum* Printz algal assay bottle test. EPA-600/9-78-018. U. S. EPA, Cincinnati, Ohio. 126 p.

McCauley, D. J., *et al*., 1986. *Acute and Chronic toxicity of Aluminum to Ceriodaphnia dubia at Various pH's*. Center for Lake Superior Environmental Studies, University of Wisconsin, Superior, Wisconsin. 15pp)

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

Stevenson, R. J. and L. L. Bahls. 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.

Table 1. Effluent limits, Class III Freshwater Criteria and field parameters.

Georgia-Pacific (Palatka Pulp & Paper)	Units	Class III Criteria	Effluent Permit Limits	Effluent
Sample Depth	m	-	-	0.5
Temperature	°C	-	Report	19.6
pH	SU	6.0 - 8.5	6.0 - 8.5	7.6
Specific Conductance	µmhos	≤ 1,275	≤ 2,467	2,200 [1,2]
Salinity	ppt	-	-	1.14
Dissolved Oxygen	% saturation	≥ 34	-	12.7 [1]
Dissolved Oxygen	mg/L	≥ 5.0	≥ 5.0	- [1,3]

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

1 – Value exceeds Class III Water Quality Criteria but not permit limits.

2 - Measurement made in the bioassay laboratory. Specific conductance was not recorded in the field for the first sampling event, 3/6/17. Measurements for 3/8/17 and 3/10/17, respectively, are 2167 µmhos and 2168 µmhos.

3 - Measurement not recorded in the field for first sampling event, 3/6/17. Measurements for 3/8/17 and 3/10/17, respectively, are 1.37 mg/L and 1.25 mg/L.

Table 2. Effluent limits, Class III Freshwater Criteria and analytical water chemistry data.

Georgia-Pacific (Palatka Pulp & Paper)	Units	Class III Criteria	Effluent Permit Limits	Effluent
Ortho-phosphate	mg P/L	-	-	0.18
Total Phosphorus	mg P/L	-	Report	0.64
Total Ammonia	mg N/L	-	Report	1.9 [4]
Unionized Ammonia	mg/L		≤ 0.11	0.037
Nitrate and Nitrite	mg N/L	-	-	0.004 I
Total Kjeldahl Nitrogen	mg N/L	-	Report	4.5
Organic Nitrogen	mg N/L	-	-	2.6 c
Total Nitrogen	mg N/L	-	Report	4.5 c
Total Organic Carbon	mg C/L	-	-	77 A
Chlorophyll *a* - Corrected	µg/L	-	-	1.6 I
Phaeophytin	µg/L	-	-	0.73 U
Chlorophyll *a* -Uncorrected	µg/L	-	-	1.3 I
CBOD, 5 day, N - inhibited	mg/L	-	-	7.4 AJ
Total Suspended Solids	mg/L	-	44.6 [5]	6 I
Turbidity	NTU	< 29 t	≤ 55	23
Color (true)	PCU	-	≤ 1,202	1,400 [6]
Alkalinity	mg $CaCO_3$/L	≥ 20	-	487 A
Chloride	mg Cl/L	-	-	140 A
Cyanide	-	≤ 5.2	-	-
Fluoride	mg F/L	≤ 10.0	-	0.084 I
Sulfate	mg SO_4/L	-	-	430 A
Microbiology				
Fecal Coliforms	cfu/100 mL	≤ 400s #	≤ 800	4 UQ
Toxicity (IC25, Chronic Definitive, % effluent)				
Bioassay - Water flea *(Ceriodaphnia dubia)*	% effluent	≥100	≥ 11.7	88.0
Bioassay - Fish *(Pimephales promelas)*	% effluent	≥100	≥ 11.7	> 100

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
c - Value is calculated
t - Shall not exceed 29 NTUs above background
A - Value reported is the mean of two or more determinations
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
J - Estimated value
Q - Sample held beyond normal holding time
U - Material analyzed for but not detected; value reported is the method detection limit
- If 10 or fewer samples are taken within a month, the single sample limit is 400 CFU (62-302.530(6), F.A.C.)
4 – Analyte was detected in Field Blank (Total Ammonia 0.038 mg N/L).
5 – Limit in effect December – May (25.5 mg/L limit in effect June – November)
6 – Value exceeds Class III Water Quality Criteria and/or permit limits.

Table 3. Effluent limits, Class III Freshwater Criteria and analytical metals data.

Georgia-Pacific (Palatka Pulp & Paper)	Units	Class III Criteria	Effluent Permit Limits	Effluent
Hardness	mg $CaCO_3$/L	-	-	234 c
Aluminum	µg/L	-	-	4,730
Arsenic	µg/L	≤ 50	-	1.07
Cadmium	µg/L	≤ 0.508 b	-	0.115
Calcium	mg/L	-	-	80.6
Chromium, Total [7]	µg/L	≤ 173 b	-	2.2
Copper	µg/L	≤ 19.3 b	-	1.52
Iron	µg/L	≤ 1,000	-	470
Lead	µg/L	≤ 9.38 b	-	0.59
Magnesium	mg/L	-	-	7.89
Nickel	µg/L	≤ 107 b	-	2.07
Potassium	mg/L	-	-	19.4
Selenium	µg/L	≤ 5.0	-	0.20 U
Silver	µg/L	≤ 0.07	-	0.011 I
Sodium	mg/L	-	-	474
Zinc	µg/L	≤ 246 b	-	25

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
b - Value is calculated based on hardness
c - Value is calculated
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
U - Material analyzed for but not detected; value reported is the method detection limit
7 - Class III Freshwater Quality Criterion (62-302.530(19)(a), F.A.C.) is for chromium-III

Table 4. 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.

Georgia-Pacific (Palatka Pulp & Paper)								
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	*Dunaliella tertiolecta*	40.0*	not applicable[8]	not applicable[8]	not applicable[8]	not applicable[8]	10.6	7
Effluent	*Pseudokirchneriella subcapitata*	28.4	72.4 ± 14.5	77.4 ± 15.5	171.2 ± 34.2	275.2 ± 55	10.6	7

* - sample salinity adjusted to 7.12 ppth

8 - predictions not applicable to marine matrix

Appendix A

Facility Summary

State of Florida

Department of Environmental Protection

Facility Introduction & Summary

PART I: Information gathered prior to sampling event	
Prepared By: Nick Williams	**Contact Number:** 904-256-1608
Facility Name (as it appears on permit): Georgia-Pacific (Palatka Pulp & Paper)	**Former Names:** N/A
NPDES Permit Number: FL0002763	**Permit Expiration Date:** December 17th, 2017
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	**Permitted Capacity (MGD):** 47 MGD
Mean Flow for previous 12 months for all EXTERNAL outfalls listed in permit (list date range including months): 17.7 MGD (December 1st, 2015 through November 30th, 2016)	
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 <u>current</u> Effluent Limits of Outfall(s) to be Sampled: This should include any AO or CO limits the facility may be under
(Leave cell blank if not applicable)

			Effluent Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	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 (Daily Max)	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.9

pH	s.u.	Min				6.0 (Daily Min)	5 Days/Week	Grab	EFF-3	See I.A.5
		Max				8.5 (Daily Max)				
Oxygen, Dissolved (DO)	mg/L	Min				5.0 (Daily Min)	5 Days/Week	Grab	EFF-3	See I.A.10
Adsorbable Organic Halides (AOX)	lb/day	Max	449	1,002		1,641 (Daily Max)	3 Days/Week	24-hr FPC	EFF-3	
Coliform, Fecal	#/100mL	Max		200 (Geometric Mean)		800 (Daily Max)	Monthly	Grab	EFF-3	
Color	PCU	Max				1,202 (Daily Max)	Monthly	Grab	EFF-3	See I.A.8
Specific Conductance	µmhos/cm	Max				2,467 (Daily Max)	Monthly	Grab	EFF-3	See I.A.8
Turbidity	NTU	Max				55 (Daily Max)	Monthly	Grab	EFF-3	See I.A.8
Nitrogen, Total (as N)	mg/L			Report		Report (Daily Max)	Monthly	Grab	EFF-3	
Nitrogen, Total (as N)	lb/yr					365,000 (Annual Total)	Monthly	Grab	EFF-3	See I.A.6
Nitrogen, Kjeldahl, Total (as N)	mg/L					Report (Daily Max)	Monthly	Grab	EFF-3	
Phosphorus, Total (as P)	mg/L			Report		Report (Daily Max)	Monthly	Grab	EFF-3	
Phosphorus, Total (as P)	lb/yr	Max				73,000 (Annual Total)	Monthly	Grab	EFF-3	See I.A.6
Solids, Settleable	mL/L	Max				0.1 (Daily Max)	Monthly	Grab	EFF-3	
Nitrogen, Ammonia, Total (as N)	mg/L					Report (Daily Max)	Quarterly	Grab	EFF-3	

Ammonia, Unionized (as NH_3)	mg/L	Max				0.11 (Daily Max)	Quarterly	Calculated	CAL-1	See I.A.5 and I.A.8
Temperature (°F), Water	Deg F					Report (Daily Max)	Quarterly	Grab	EFF-3	See I.A.5
2,3,7,8-tetrachlorodibenzo-p-dioxin	pg/L	Max		0.014		0.014 (Daily Max)	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.):

a. Effluent Limitation
   (1) In any routine or additional follow-up test for chronic whole effluent toxicity, the 25 percent inhibition concentration (IC25) shall not be less than 11.7% effluent. [Rules 62-302.530(61) and 62-4.241(2)(b), F.A.C.]
   (2) For acute whole effluent toxicity, the 96-hour LC50 shall not be less than 100% effluent in any test. [Rules 62-302.500(1)(a)4 and 62-4.241(2)(a), F.A.C.]

b. Monitoring Frequency
   (1) Routine toxicity tests shall be conducted quarterly, the first starting within 60 days of the issuance 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 24-hr flow proportion 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%, 55.9%, 11.7%, 5.7%,** and **2.8%** 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 by DEP rules, the permittee shall conduct chronic toxicity testing in accordance with the revised method.
   (4) The control water and dilution water shall be moderately hard water as described in EPA-821-R-02-013, Section 7.2.3.

e. Quality Assurance Requirements
   (1) A Standard Reference Toxicant (SRT) Quality Assurance (QA) chronic toxicity test shall be conducted with each species used in the required toxicity tests either concurrently or initiated no more than 30 days before the date of each routine or additional follow-up test conducted. Additionally, the SRT test must be conducted concurrently if the test organisms are obtained from outside the test laboratory unless the test organism supplier provides control chart data from at least the last five monthly chronic toxicity tests using the same reference toxicant and test conditions. If the organism supplier provides the required SRT data, the organism supplier's SRT data and the test laboratory's monthly SRT-QA data shall be included in the reports for each companion routine or additional follow-up test required.
   (2) If the mortality in the control exceeds 20% for either species in any test, or any other test acceptability criteria are not met, the test for that species (including the control) shall be invalidated and the test repeated. Test acceptability criteria for each species are defined in EPA-821-R-02-013, Section 13.12 (***Ceriodaphnia dubia***) and Section 11.11 (***Pimephales promelas***). The repeat test shall begin within 21 days after the last day of the invalid test.
   (3) If 100% mortality occurs in all effluent concentrations for either species prior to the end of any test and the control mortality is less than 20% at that time, the test (including the control) for that species shall be terminated with the conclusion that the test fails and constitutes non-compliance.
   (4) Routine and additional follow-up tests shall be evaluated for acceptability based on the observed dose-response relationship as required by EPA-821-R-02-013, Section 10.2.6., and the evaluation shall be included with the bioassay laboratory reports.

f. Reporting Requirements

(1) Results from all required tests shall be reported on the Discharge Monitoring Report (DMR) as the calculated IC25 for each test species.

(2) A bioassay laboratory report for each routine test shall be prepared according to EPA-821-R-02-013, Section 10, Report Preparation and Test Review, and mailed or **e-mailed** to the Department at the address below **within 30 days** after the last day of the test.

(3) For additional follow-up tests, a single bioassay laboratory report shall be prepared according to EPA-821-R-02-013, Section 10, and mailed or **e-mailed within 30 days** after the last day of the second valid additional follow-up test.

(4) Data for invalid tests shall be included in the bioassay laboratory report for the repeat test.

(5) The same bioassay data shall not be reported as the results of more than one test.

(6) All bioassay laboratory reports shall be mailed or e-mailed **within 30 days** to *Jacksonville*

Florida Department of Environmental Protection – Northeast District
8800 Baymeadows Way West, Suite 100
Jacksonville, Florida 32256

g. Test Failures

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

(2) Additional Follow-up Tests:

(a) If a routine test does not meet the chronic toxicity limitation in 7.a.(1) above, the permittee shall notify the Department at the address above within 21 days after the last day of the failed routine test and conduct two additional follow-up tests on each species that failed the test in accordance with 7.d.

(b) The first test shall be initiated within 28 days after the last day of the failed routine test. The remaining additional follow-up tests shall be conducted weekly thereafter until a total of two valid additional follow-up tests are completed.

(c) The additional follow-up tests shall be conducted using a control (0% effluent) and a minimum of five dilutions: **100%, 55.9%, 11.7%, 5.7%,** and **2.8%** effluent. The permittee may modify the dilution series in the additional follow-up tests to more accurately bracket the toxicity such that at least two dilutions above and two dilutions below the target concentration and a control are run. All test results shall be analyzed according to the procedures in EPA-821-R-02-013.

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

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

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

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

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

(e) During the implementation of the plan, the permittee shall conduct quarterly routine whole effluent toxicity tests in accordance with 7.d. Additional follow-up tests are not required while the plan is in progress. Following completion or termination of the plan, the frequency of monitoring for routine and additional follow-up tests shall return to the schedule established in 7.b.(1). If a routine test is invalid according to the acceptance criteria in EPA-821-R-02-013, 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 7.a. 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.

(g) If a test within the sequence of the four is deemed invalid, but is replaced by a repeat valid test initiated within 21 days after the last day of the invalid test, the invalid test will not be counted against the requirement for four consecutive quarterly valid routine tests for the purpose of terminating the plan.

(4) If chronic toxicity test results indicate greater than 50% mortality within 96 hours in an effluent concentration equal to or less than the effluent concentration specified as the acute toxicity limit in 7.(a)(2), the Permittee shall begin acute definitive whole effluent toxicity testing within 21 days and shall notify the Department within 24 hours of the Permittee becoming aware of the test results. The Department may revise this permit to require acute definitive whole effluent toxicity testing as well as initiating a study to determine the cause of mortality.

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

[Rule 62-4.241, 62-620.620(3), F.A.C.*]*

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
12/31/2015	Turbidity (NTU)	55.0	72.4
4/30/2016	Coliform Fecal (#/100mL)	200.0	>15.0
4/30/2016	Coliform Fecal (#/100mL)	800.0	>150
4/30/2016	IC25 Statre 7day Chr Ceriodaphnia (percent)	11.7	9.2
4/30/2016	Turbidity (NTU)	55.0	98.5
6/30/2016	Coliform Fecal (#/100mL)	940	800
9/30/2016	pH (s.u.)	8.5	8.6
10/31/2016	Solids Total Suspended	10000.0	25070
10/31/2016	pH (s.u.)	6.0	5.5
11/30/2016	pH (s.u.)	6.0	5.5

Describe previous FYI and WQBEL study:

• Toxicity Test Results

Bioassay samples were not collected during this sampling event.

• Algal Growth Potential

The effluent Algal Growth Potential (AGP) was 12.9 mg dry wt/L of the unicellular green alga, *Pseudokirchneriella subcapitata*, formerly known as *Selenastrum capricornutum*. Raschke and Schultz (1987) determined that AGP values above 5.0 mg dry wt/L represent a "problem" threshold for fresh receiving waters, implying nutrient enrichment. The ratio (7.9:1) of total nitrogen to total phosphorus suggests that the effluent was nitrogen limited. (Table 1; Miller et al. 1978).

• Chemistry Results

Adsorbable organic halides, chemical oxygen demand (COD), and settleable solids analyses were performed by Test America – Savannah.

The total ammonia concentration in the grab sample collected and preserved for chemical analysis was 0.035 mg N/L. Based on the pH, salinity, and temperature of the effluent as collected, the calculated unionized ammonia concentration was <0.02 mg/L.

The effluent's dissolved oxygen (4.6 mg/L) was below the minimum limit for Class III Freshwater Quality Criterion (≥ 5.0 mg/L (62-302.530 (30), F.A.C.)) but did not exceed the facility's permitted limit. The effluent pH complied with Class III Freshwater Quality Criterion (62-302.530, F.A.C.) and/or the permitted limit (NPDES #FL0002763). Due to a field meter malfunction, the conductivity and salinity of the effluent (Table 2) is from analyses performed in the Central Laboratory. Iron, total Kjeldahl nitrogen, total nitrogen, total suspended solids, turbidity, color, chemical oxygen demand (COD), and hardness were detected in the effluent at levels that comply with Class III Freshwater Quality Criteria (62- 302.530, F.A.C.) and/or permitted limits (NPDES #FL0002763). The settleable solids result was below the detection limit for the analysis which was also the permitted limit. Arsenic, chromium-III, nickel, and zinc were detected between the laboratory method detection limits (MDL) and practical quantitation limits (PQL). The permit has a limit for biochemical oxygen demand (BOD) but the analysis run was carbonaceous biochemical oxygen demand (CBOD). Although adsorbable organic halides (AOX) were detected in the effluent, the limit was unable to be calculated as the flow for the day of sampling was not readily available.

In the trip blank, methylene chloride was detected between the laboratory method detection limit (MDL) and practical quantitation limit (PQL).

See Table 2 for results of analytes detected in the effluent, corresponding limits, and qualifiers. See Appendix B for a complete list of chemical analyses performed.

• Microbiology

Fecal coliform analyses were performed by Columbia Analytical Services - Jacksonville.

Fecal coliforms were detected in the effluent at levels which complied with Class III Freshwater Quality Criterion (62-302.530 (6), F.A.C.) and facility permit limits.

See Table 2 for results of analytes detected in the effluent, corresponding limits, and qualifiers. See Appendix B for a complete list of chemical analyses performed.

Conclusion

The effluent sample was collected from the EFF-1 NPDES sampling point for this facility on September 12, 2012. The effluent AGP result was greater than the "problem" threshold for fresh receiving waters suggesting that nutrient enrichment may be an issue. The effluent's dissolved oxygen concentration (4.6 mg/L) was below the minimum dissolved oxygen concentration criterion for Class III freshwater (≥ 5.0 mg/L (62-302.530 (30), F.A.C.)). Due to the absence of a concurrent background conductivity value and problems with the field meter used to measure conductivity, it cannot be determined if the effluent's conductivity exceeded Class III freshwater criterion.

Describe previous or current Enforcement Actions (including WLs):

No enforcement actions in last five years.

Describe any violations or problems noted in previous inspection:

Last CEI was conducted on March 26th, 2016. The facility was determined to be in compliance. Only concern was that calibration verification were not being document for equipment used to measure pH, temperature, specific conductivity, and dissolved oxygen. The lab tech provided proof they had corrected issue.

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

There do not appear to be any obvious trends for any parameters over the last five years. Most parameters fluctuate up and down, but none appear to be rising or falling in a consistent manor. Exceedances have occurred most often with fecal coliform and pH, with others (turbidity, settleable solids, dissolved oxygen) having one or two hits in the last five years. More recently pH has been below the minimum two months in a row for October and November, as well as being above the maximum for September.

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 (µmohs/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

Explanation of Measurements

(1) Quality Assurance and Quality Control

FDEP's quality assurance requirements for analytical laboratories and field activities are codified in Chapter 62-160, F.A.C., Quality Assurance (QA Rule) and in internal Standard Operating Procedures (FDEP SOPs). Methods for all analyses are on file at the FDEP Central Laboratory in Tallahassee and may be viewed on the web at http://www.dep.state.fl.us/labs/library/lab_sops.htm and/or http://www.dep.state.fl.us/water/sas/sop/sops.htm.

(2) Chemical Analyses of the Effluent

The effluent was analyzed for nutrients, metals, organic constituents (base, neutral, and acid extractables) and pesticides following FDEP SOPs. The results from these analyses were compared with Water Quality Criteria (62-302, F.A.C.) and facility permit limits.

(3) 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(61) 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(61) and/or facility permit limits. Standard reference toxicant (SRT) tests are conducted monthly to ensure quality in toxicity testing.

(4) Bacteriological Testing

High levels of fecal coliform bacteria may constitute an exceedance of 62-302.530(6) and/or facility permit limits. Fecal coliform and enterococci 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.

(5) Chlorophyll *a* Content

Chlorophyll *a* content is an estimate algal biomass. High algal biomass implies nutrient stress (Stevenson and Bahls 1999) and may constitute exceedances of 62-302.530(46), F.A.C., 62-302.530(47)(a), F.A.C., and/or 62-302.530(47)(b), F.A.C..

(6) 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. The AGP range of 6.10 to 20.0 mg dry wt/L is suggested to be representative of high productivity for freshwater (Miller et al. 1978). High AGP values may constitute exceedances of 62-302.530(46), F.A.C., 62-302.530(47)(a), F.A.C. and/or 62-302.530(47)(b), F.A.C.

The concentration of nutrients in a water sample may be used to calculate the expected yield of AGP in a low salinity sample 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 $\pm$ 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 (EPA-822-B-00-002). 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(61) F.A.C. Expected AGP is not calculated for marine samples incubated with *Dunaliella*.

(7) 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

Chemical analysis of effluent

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
3/6/2017	Effluent	AGP/LN	Algal Growth Potential	28.4	mg DryWt/L	0.3	0.9
3/6/2017	Effluent	AGP/LN	Algal Growth Potential-Salinity Adjusted	40.0	mg DryWt/L	3	3
3/6/2017	Effluent	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	7.4 AJ	mg/L	0.2	2
3/6/2017	Effluent	Chlorophyll/Grain Size/BOD	Phaeophytin-a	0.73 U	µg/L	0.73	2.2
3/6/2017	Effluent	Chlorophyll/Grain Size/BOD	Chlorophyll/Phaeophytin Ratio	2.2		0	0
3/6/2017	Effluent	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	1.6 I	µg/L	1	3.1
3/6/2017	Effluent	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	1.3 I	µg/L	0.73	2.2
3/6/2017	Effluent	Microbiology	Fecal Coliforms-Membrane Filter	4 UQ	cfu/100 mL	4	4
3/6/2017	Effluent	Toxicology	Bioassay-Chron-Def-FW-Fish, IC25	100 L	IC25		
3/6/2017	Effluent	Toxicology	Bioassay-Chron-Def-FW-C.dubia, IC25	88.0	IC25		
3/6/2017	Effluent	Toxicology	Bioassay-Chron-Def-FW-Fish, NOEC	100	NOEC		
3/6/2017	Effluent	Toxicology	Bioassay-Chron-Def-FW-C.dubia, NOEC	55.9	NOEC		
3/6/2017	Effluent	Metals	Nickel	2.07	µg/L	0.2	0.8
3/6/2017	Effluent	Metals	Magnesium	7.89	mg/L	0.04	0.16
3/6/2017	Effluent	Metals	Iron	470	µg/L	30	120
3/6/2017	Effluent	Metals	Calcium	80.6	mg/L	0.075	0.3
3/6/2017	Effluent	Metals	Silver	0.011 I	µg/L	0.01	0.04
3/6/2017	Effluent	Metals	Zinc	25	µg/L	5	20
3/6/2017	Effluent	Metals	Selenium	0.20 U	µg/L	0.2	0.8
3/6/2017	Effluent	Metals	Cadmium	0.115	µg/L	0.02	0.08
3/6/2017	Effluent	Metals	Potassium	19.4	mg/L	0.3	1.2
3/6/2017	Effluent	Metals	Arsenic	1.07	µg/L	0.05	0.2
3/6/2017	Effluent	Metals	Aluminum	4.73E+03	µg/L	9	36
3/6/2017	Effluent	Metals	Copper	1.52	µg/L	0.2	0.8
3/6/2017	Effluent	Metals	Chromium	2.2	µg/L	0.4	1.6
3/6/2017	Effluent	Metals	Sodium	474	mg/L	5	20
3/6/2017	Effluent	Metals	Lead	0.59	µg/L	0.05	0.2
3/6/2017	Effluent	Nutrients	Fluoride	0.084 I	mg F/L	0.035	0.1
3/6/2017	Effluent	Nutrients	Total-P	0.64	mg P/L	0.005	0.05
3/6/2017	Effluent	Nutrients	TSS	6 I	mg/L	2	10
3/6/2017	Effluent	Nutrients	O-Phosphate-P	0.18	mg P/L	0.004	0.01
3/6/2017	Effluent	Nutrients	Color (true)	1.4E+03	PCU	50	120

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
3/6/2017	Effluent	Nutrients	Ammonia-N	1.9	mg N/L	0.2	0.5
3/6/2017	Effluent	Nutrients	Chloride	140 A	mg Cl/L	2	5
3/6/2017	Effluent	Nutrients	Sulfate	430 A	mg SO4/L	2	5
3/6/2017	Effluent	Nutrients	NO2NO3-N	0.004 I	mg N/L	0.004	0.01
3/6/2017	Effluent	Nutrients	Turbidity	23	NTU	0.1	0.1
3/6/2017	Effluent	Nutrients	Organic Carbon	77 A	mg C/L	0.5	1
3/6/2017	Effluent	Nutrients	Kjeldahl Nitrogen	4.5	mg N/L	0.4	1
3/6/2017	Effluent	Nutrients	Total Alkalinity	487 A	mg CaCO3/L	0.65	2.5
3/6/2017	Effluent	Pesticides	Butylate	0.019 UJ	µg/L	0.019	0.076
3/6/2017	Effluent	Pesticides	Alachlor	0.057 UJ	µg/L	0.057	0.23
3/6/2017	Effluent	Pesticides	Chlorpyrifos Ethyl	0.0095 UJ	µg/L	0.0095	0.038
3/6/2017	Effluent	Pesticides	Norflurazon	0.028 UJ	µg/L	0.028	0.11
3/6/2017	Effluent	Pesticides	Prometon	0.019 UJ	µg/L	0.019	0.076
3/6/2017	Effluent	Pesticides	Sucralose	0.20	µg/L	0.01	0.04
3/6/2017	Effluent	Pesticides	Ethoprop	0.0047 UJ	µg/L	0.0047	0.019
3/6/2017	Effluent	Pesticides	Metribuzin	0.019 UJ	µg/L	0.019	0.076
3/6/2017	Effluent	Pesticides	Mevinphos	0.0095 UJ	µg/L	0.0095	0.038
3/6/2017	Effluent	Pesticides	Parathion Ethyl	0.019 UJ	µg/L	0.019	0.076
3/6/2017	Effluent	Pesticides	Prometryn	0.019 UJ	µg/L	0.019	0.076
3/6/2017	Effluent	Pesticides	Simazine	0.0095 UJ	µg/L	0.0095	0.038
3/6/2017	Effluent	Pesticides	Atrazine	0.0095 UJ	µg/L	0.0095	0.038
3/6/2017	Effluent	Pesticides	Azinphos Methyl	0.019 UJ	µg/L	0.019	0.076
3/6/2017	Effluent	Pesticides	Disulfoton	0.0047 UJ	µg/L	0.0047	0.019
3/6/2017	Effluent	Pesticides	Metalaxyl	0.038 UJ	µg/L	0.038	0.15
3/6/2017	Effluent	Pesticides	Malathion	0.0095 UJ	µg/L	0.0095	0.038
3/6/2017	Effluent	Pesticides	Fonofos	0.0095 UJ	µg/L	0.0095	0.038
3/6/2017	Effluent	Pesticides	Hexazinone	0.028 UJ	µg/L	0.028	0.11
3/6/2017	Effluent	Pesticides	Naled	0.038 UJ	µg/L	0.038	0.15
3/6/2017	Effluent	Pesticides	Parathion Methyl	0.0095 UJ	µg/L	0.0095	0.038
3/6/2017	Effluent	Pesticides	Phorate	0.0047 UJ	µg/L	0.0047	0.019
3/6/2017	Effluent	Pesticides	Ametryn	0.0095 UJ	µg/L	0.0095	0.038
3/6/2017	Effluent	Pesticides	Atrazine Desisopropyl	0.0095 UJ	µg/L	0.0095	0.038
3/6/2017	Effluent	Pesticides	Bromacil	0.038 UJ	µg/L	0.038	0.15
3/6/2017	Effluent	Pesticides	Atrazine Desethyl	0.0095 UJ	µg/L	0.0095	0.038
3/6/2017	Effluent	Pesticides	Chlorpyrifos Methyl	0.0095 UJ	µg/L	0.0095	0.038

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
3/6/2017	Effluent	Pesticides	Demeton	0.023 UJ	µg/L	0.023	0.091
3/6/2017	Effluent	Pesticides	Diazinon	0.0095 UJ	µg/L	0.0095	0.038
3/6/2017	Effluent	Pesticides	Ethion	0.0095 UJ	µg/L	0.0095	0.038
3/6/2017	Effluent	Pesticides	Fenamiphos	0.028 UJ	µg/L	0.028	0.11
3/6/2017	Effluent	Pesticides	Metolachlor	0.057 UJ	µg/L	0.057	0.23
3/6/2017	Effluent	Priority Organic Pollutants	2,4-Dichlorophenol	0.93 U	µg/L	0.93	3.7
3/6/2017	Effluent	Priority Organic Pollutants	Diethyl phthalate	1.9 U	µg/L	1.9	7.4
3/6/2017	Effluent	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.93 UJ	µg/L	0.93	3.7
3/6/2017	Effluent	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.93 U	µg/L	0.93	3.7
3/6/2017	Effluent	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.93 U	µg/L	0.93	3.7
3/6/2017	Effluent	Priority Organic Pollutants	Chrysene	0.19 U	µg/L	0.19	0.74
3/6/2017	Effluent	Priority Organic Pollutants	Isophorone	0.93 U	µg/L	0.93	3.7
3/6/2017	Effluent	Priority Organic Pollutants	2,4-Dinitrotoluene	0.93 U	µg/L	0.93	3.7
3/6/2017	Effluent	Priority Organic Pollutants	3,3'-Dichlorobenzidine	37 UJ	µg/L	37	150
3/6/2017	Effluent	Priority Organic Pollutants	4-Nitrophenol	14 U	µg/L	14	56
3/6/2017	Effluent	Priority Organic Pollutants	Benzo(a)pyrene	0.19 UJ	µg/L	0.19	0.74
3/6/2017	Effluent	Priority Organic Pollutants	Hexachloroethane	2.8 UJ	µg/L	2.8	11
3/6/2017	Effluent	Priority Organic Pollutants	Hexachlorobenzene	0.93 UJ	µg/L	0.93	3.7
3/6/2017	Effluent	Priority Organic Pollutants	Hexachlorobutadiene	2.8 U	µg/L	2.8	11
3/6/2017	Effluent	Priority Organic Pollutants	Naphthalene	0.19 UJ	µg/L	0.19	0.74
3/6/2017	Effluent	Priority Organic Pollutants	Acenaphthylene	0.19 UJ	µg/L	0.19	0.74
3/6/2017	Effluent	Priority Organic Pollutants	Benzidine	93 UJ	µg/L	93	370
3/6/2017	Effluent	Priority Organic Pollutants	Benzo(a)anthracene	0.19 U	µg/L	0.19	0.74
3/6/2017	Effluent	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.19 UJ	µg/L	0.19	0.74
3/6/2017	Effluent	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	1.9 U	µg/L	1.9	7.4
3/6/2017	Effluent	Priority Organic Pollutants	Di-n-butyl phthalate	1.9 UJ	µg/L	1.9	7.4
3/6/2017	Effluent	Priority Organic Pollutants	Pentachlorophenol	0.93 U	µg/L	0.93	3.7
3/6/2017	Effluent	Priority Organic Pollutants	2,6-Dinitrotoluene	0.93 U	µg/L	0.93	3.7
3/6/2017	Effluent	Priority Organic Pollutants	2-Chloronaphthalene	0.93 UJ	µg/L	0.93	3.7
3/6/2017	Effluent	Priority Organic Pollutants	Acenaphthene	0.19 UJ	µg/L	0.19	0.74
3/6/2017	Effluent	Priority Organic Pollutants	Benzo(k)fluoranthene	0.19 UJ	µg/L	0.19	0.74
3/6/2017	Effluent	Priority Organic Pollutants	Butyl benzyl phthalate	0.93 U	µg/L	0.93	3.7
3/6/2017	Effluent	Priority Organic Pollutants	Fluorene	0.19 UJ	µg/L	0.19	0.74
3/6/2017	Effluent	Priority Organic Pollutants	N-Nitrosodimethylamine	1.9 U	µg/L	1.9	7.4
3/6/2017	Effluent	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.93 UJ	µg/L	0.93	3.7

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
3/6/2017	Effluent	Priority Organic Pollutants	Dimethyl phthalate	0.93 U	µg/L	0.93	3.7
3/6/2017	Effluent	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	1.9 U	µg/L	1.9	7.4
3/6/2017	Effluent	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	2.8 U	µg/L	2.8	11
3/6/2017	Effluent	Priority Organic Pollutants	Phenol	0.93 U	µg/L	0.93	3.7
3/6/2017	Effluent	Priority Organic Pollutants	Pyrene	0.19 U	µg/L	0.19	0.74
3/6/2017	Effluent	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.93 U	µg/L	0.93	3.7
3/6/2017	Effluent	Priority Organic Pollutants	2,4-Dimethylphenol	9.3 U	µg/L	9.3	37
3/6/2017	Effluent	Priority Organic Pollutants	2-Chlorophenol	0.93 U	µg/L	0.93	3.7
3/6/2017	Effluent	Priority Organic Pollutants	Benzo(b)fluoranthene	0.19 UJ	µg/L	0.19	0.74
3/6/2017	Effluent	Priority Organic Pollutants	Hexachlorocyclopentadiene	2.8 UJ	µg/L	2.8	11
3/6/2017	Effluent	Priority Organic Pollutants	Phenanthrene	0.19 UJ	µg/L	0.19	0.74
3/6/2017	Effluent	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	2.8 U	µg/L	2.8	11
3/6/2017	Effluent	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	2.8 UJ	µg/L	2.8	11
3/6/2017	Effluent	Priority Organic Pollutants	Di-n-octyl phthalate	0.93 UJ	µg/L	0.93	3.7
3/6/2017	Effluent	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.19 UJ	µg/L	0.19	0.74
3/6/2017	Effluent	Priority Organic Pollutants	Fluoranthene	0.19 UJ	µg/L	0.19	0.74
3/6/2017	Effluent	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.19 UJ	µg/L	0.19	0.74
3/6/2017	Effluent	Priority Organic Pollutants	Nitrobenzene	1.9 UJ	µg/L	1.9	7.4
3/6/2017	Effluent	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.93 UJ	µg/L	0.93	3.7
3/6/2017	Effluent	Priority Organic Pollutants	2-Nitrophenol	0.93 UJ	µg/L	0.93	3.7
3/6/2017	Effluent	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	1.9 UJ	µg/L	1.9	7.4
3/6/2017	Effluent	Priority Organic Pollutants	Anthracene	0.19 UJ	µg/L	0.19	0.74
3/6/2017	Effluent	Priority Organic Pollutants	2,4-Dinitrophenol	14 UJ	µg/L	14	56
3/6/2017	Equipment Blank	Priority Organic Pollutants	2-Chlorophenol	0.93 U	µg/L	0.93	3.7
3/6/2017	Equipment Blank	Priority Organic Pollutants	Pyrene	0.19 U	µg/L	0.19	0.74
3/6/2017	Equipment Blank	Priority Organic Pollutants	Benzo(k)fluoranthene	0.19 U	µg/L	0.19	0.74
3/6/2017	Equipment Blank	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	2.8 U	µg/L	2.8	11
3/6/2017	Equipment Blank	Priority Organic Pollutants	Hexachlorobenzene	0.93 U	µg/L	0.93	3.7
3/6/2017	Equipment Blank	Priority Organic Pollutants	Hexachlorocyclopentadiene	2.8 U	µg/L	2.8	11
3/6/2017	Equipment Blank	Priority Organic Pollutants	Hexachloroethane	2.8 U	µg/L	2.8	11
3/6/2017	Equipment Blank	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	1.9 U	µg/L	1.9	7.4
3/6/2017	Equipment Blank	Priority Organic Pollutants	Phenanthrene	0.19 U	µg/L	0.19	0.74
3/6/2017	Equipment Blank	Priority Organic Pollutants	Benzo(a)anthracene	0.19 U	µg/L	0.19	0.74
3/6/2017	Equipment Blank	Priority Organic Pollutants	Naphthalene	0.19 U	µg/L	0.19	0.74
3/6/2017	Equipment Blank	Priority Organic Pollutants	Dimethyl phthalate	0.93 U	µg/L	0.93	3.7

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
3/6/2017	Equipment Blank	Priority Organic Pollutants	Di-n-butyl phthalate	1.9 U	µg/L	1.9	7.4
3/6/2017	Equipment Blank	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.19 U	µg/L	0.19	0.74
3/6/2017	Equipment Blank	Priority Organic Pollutants	Benzo(b)fluoranthene	0.19 U	µg/L	0.19	0.74
3/6/2017	Equipment Blank	Priority Organic Pollutants	Anthracene	0.19 U	µg/L	0.19	0.74
3/6/2017	Equipment Blank	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.93 U	µg/L	0.93	3.7
3/6/2017	Equipment Blank	Priority Organic Pollutants	2,4-Dimethylphenol	9.3 U	µg/L	9.3	37
3/6/2017	Equipment Blank	Priority Organic Pollutants	2,4-Dinitrophenol	14 UJ	µg/L	14	56
3/6/2017	Equipment Blank	Priority Organic Pollutants	3,3'-Dichlorobenzidine	37 U	µg/L	37	150
3/6/2017	Equipment Blank	Priority Organic Pollutants	Chrysene	0.19 U	µg/L	0.19	0.74
3/6/2017	Equipment Blank	Priority Organic Pollutants	Hexachlorobutadiene	2.8 U	µg/L	2.8	11
3/6/2017	Equipment Blank	Priority Organic Pollutants	Phenol	0.93 U	µg/L	0.93	3.7
3/6/2017	Equipment Blank	Priority Organic Pollutants	Benzo(a)pyrene	0.19 U	µg/L	0.19	0.74
3/6/2017	Equipment Blank	Priority Organic Pollutants	4-Nitrophenol	14 U	µg/L	14	56
3/6/2017	Equipment Blank	Priority Organic Pollutants	Benzidine	93 U	µg/L	93	370
3/6/2017	Equipment Blank	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.19 U	µg/L	0.19	0.74
3/6/2017	Equipment Blank	Priority Organic Pollutants	N-Nitrosodimethylamine	1.9 U	µg/L	1.9	7.4
3/6/2017	Equipment Blank	Priority Organic Pollutants	2-Chloronaphthalene	0.93 U	µg/L	0.93	3.7
3/6/2017	Equipment Blank	Priority Organic Pollutants	2-Nitrophenol	0.93 U	µg/L	0.93	3.7
3/6/2017	Equipment Blank	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.93 U	µg/L	0.93	3.7
3/6/2017	Equipment Blank	Priority Organic Pollutants	Di-n-octyl phthalate	0.93 U	µg/L	0.93	3.7
3/6/2017	Equipment Blank	Priority Organic Pollutants	Diethyl phthalate	1.9 U	µg/L	1.9	7.4
3/6/2017	Equipment Blank	Priority Organic Pollutants	Isophorone	0.93 U	µg/L	0.93	3.7
3/6/2017	Equipment Blank	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	2.8 U	µg/L	2.8	11
3/6/2017	Equipment Blank	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.93 U	µg/L	0.93	3.7
3/6/2017	Equipment Blank	Priority Organic Pollutants	2,4-Dichlorophenol	0.93 U	µg/L	0.93	3.7
3/6/2017	Equipment Blank	Priority Organic Pollutants	2,6-Dinitrotoluene	0.93 U	µg/L	0.93	3.7
3/6/2017	Equipment Blank	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.93 U	µg/L	0.93	3.7
3/6/2017	Equipment Blank	Priority Organic Pollutants	Butyl benzyl phthalate	0.93 U	µg/L	0.93	3.7
3/6/2017	Equipment Blank	Priority Organic Pollutants	Fluoranthene	0.19 U	µg/L	0.19	0.74
3/6/2017	Equipment Blank	Priority Organic Pollutants	Fluorene	0.19 U	µg/L	0.19	0.74
3/6/2017	Equipment Blank	Priority Organic Pollutants	Nitrobenzene	1.9 U	µg/L	1.9	7.4
3/6/2017	Equipment Blank	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.93 U	µg/L	0.93	3.7
3/6/2017	Equipment Blank	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.93 U	µg/L	0.93	3.7
3/6/2017	Equipment Blank	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	1.9 U	µg/L	1.9	7.4
3/6/2017	Equipment Blank	Priority Organic Pollutants	Acenaphthylene	0.19 U	µg/L	0.19	0.74

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
3/6/2017	Equipment Blank	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	1.9 U	µg/L	1.9	7.4
3/6/2017	Equipment Blank	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.19 U	µg/L	0.19	0.74
3/6/2017	Equipment Blank	Priority Organic Pollutants	Pentachlorophenol	0.93 U	µg/L	0.93	3.7
3/6/2017	Equipment Blank	Priority Organic Pollutants	2,4-Dinitrotoluene	0.93 U	µg/L	0.93	3.7
3/6/2017	Equipment Blank	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	2.8 U	µg/L	2.8	11
3/6/2017	Equipment Blank	Priority Organic Pollutants	Acenaphthene	0.19 U	µg/L	0.19	0.74
3/6/2017	Field Blank	Metals	Zinc	5.0 U	µg/L	5	20
3/6/2017	Field Blank	Metals	Cadmium	0.020 U	µg/L	0.02	0.08
3/6/2017	Field Blank	Metals	Chromium	0.40 U	µg/L	0.4	1.6
3/6/2017	Field Blank	Metals	Calcium	0.075 U	mg/L	0.075	0.3
3/6/2017	Field Blank	Metals	Potassium	0.30 U	mg/L	0.3	1.2
3/6/2017	Field Blank	Metals	Copper	0.20 U	µg/L	0.2	0.8
3/6/2017	Field Blank	Metals	Nickel	0.20 U	µg/L	0.2	0.8
3/6/2017	Field Blank	Metals	Iron	30 U	µg/L	30	120
3/6/2017	Field Blank	Metals	Magnesium	0.040 U	mg/L	0.04	0.16
3/6/2017	Field Blank	Metals	Selenium	0.20 U	µg/L	0.2	0.8
3/6/2017	Field Blank	Metals	Silver	0.010 U	µg/L	0.01	0.04
3/6/2017	Field Blank	Metals	Sodium	0.50 U	mg/L	0.5	2
3/6/2017	Field Blank	Metals	Aluminum	3.0 U	µg/L	3	12
3/6/2017	Field Blank	Metals	Lead	0.050 U	µg/L	0.05	0.2
3/6/2017	Field Blank	Metals	Arsenic	0.050 U	µg/L	0.05	0.2
3/6/2017	Field Blank	Nutrients	NO2NO3-N	0.004 U	mg N/L	0.004	0.01
3/6/2017	Field Blank	Nutrients	Sulfate	0.20 U	mg SO4/L	0.2	0.5
3/6/2017	Field Blank	Nutrients	Ammonia-N	0.038	mg N/L	0.002	0.005
3/6/2017	Field Blank	Nutrients	O-Phosphate-P	0.004 U	mg P/L	0.004	0.01
3/6/2017	Field Blank	Nutrients	Turbidity	0.10 U	NTU	0.1	0.1
3/6/2017	Field Blank	Nutrients	Total Alkalinity	0.65 U	mg CaCO3/L	0.65	2.5
3/6/2017	Field Blank	Nutrients	Chloride	0.20 U	mg Cl/L	0.2	0.5
3/6/2017	Field Blank	Nutrients	Kjeldahl Nitrogen	0.080 U	mg N/L	0.08	0.2
3/6/2017	Field Blank	Nutrients	Organic Carbon	0.50 U	mg C/L	0.5	1
3/6/2017	Field Blank	Nutrients	Total-P	0.002 U	mg P/L	0.002	0.005
3/6/2017	Field Blank	Nutrients	Color (true)	2.5 U	PCU	2.5	6
3/6/2017	Field Blank	Nutrients	Fluoride	0.035 U	mg F/L	0.035	0.1
3/6/2017	Field Blank	Pesticides	Norflurazon	0.028 U	µg/L	0.028	0.11
3/6/2017	Field Blank	Pesticides	Metalaxyl	0.038 U	µg/L	0.038	0.15

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
3/6/2017	Field Blank	Pesticides	Hexazinone	0.028 U	µg/L	0.028	0.11
3/6/2017	Field Blank	Pesticides	Fenamiphos	0.028 UJ	µg/L	0.028	0.11
3/6/2017	Field Blank	Pesticides	Chlorpyrifos Ethyl	0.0095 U	µg/L	0.0095	0.038
3/6/2017	Field Blank	Pesticides	Disulfoton	0.0047 U	µg/L	0.0047	0.019
3/6/2017	Field Blank	Pesticides	Parathion Methyl	0.0095 U	µg/L	0.0095	0.038
3/6/2017	Field Blank	Pesticides	Malathion	0.0095 U	µg/L	0.0095	0.038
3/6/2017	Field Blank	Pesticides	Alachlor	0.057 U	µg/L	0.057	0.23
3/6/2017	Field Blank	Pesticides	Phorate	0.0047 U	µg/L	0.0047	0.019
3/6/2017	Field Blank	Pesticides	Ethion	0.0095 U	µg/L	0.0095	0.038
3/6/2017	Field Blank	Pesticides	Butylate	0.019 U	µg/L	0.019	0.076
3/6/2017	Field Blank	Pesticides	Atrazine Desisopropyl	0.0095 U	µg/L	0.0095	0.038
3/6/2017	Field Blank	Pesticides	Simazine	0.0095 U	µg/L	0.0095	0.038
3/6/2017	Field Blank	Pesticides	Naled	0.038 U	µg/L	0.038	0.15
3/6/2017	Field Blank	Pesticides	Parathion Ethyl	0.019 U	µg/L	0.019	0.076
3/6/2017	Field Blank	Pesticides	Prometon	0.019 U	µg/L	0.019	0.076
3/6/2017	Field Blank	Pesticides	Prometryn	0.019 U	µg/L	0.019	0.076
3/6/2017	Field Blank	Pesticides	Sucralose	0.010 U	µg/L	0.01	0.04
3/6/2017	Field Blank	Pesticides	Sucralose	0.010 U	µg/L	0.01	0.04
3/6/2017	Field Blank	Pesticides	Atrazine	0.0095 U	µg/L	0.0095	0.038
3/6/2017	Field Blank	Pesticides	Fonofos	0.0095 U	µg/L	0.0095	0.038
3/6/2017	Field Blank	Pesticides	Metolachlor	0.057 U	µg/L	0.057	0.23
3/6/2017	Field Blank	Pesticides	Mevinphos	0.0095 U	µg/L	0.0095	0.038
3/6/2017	Field Blank	Pesticides	Ametryn	0.0095 U	µg/L	0.0095	0.038
3/6/2017	Field Blank	Pesticides	Demeton	0.023 U	µg/L	0.023	0.091
3/6/2017	Field Blank	Pesticides	Diazinon	0.0095 U	µg/L	0.0095	0.038
3/6/2017	Field Blank	Pesticides	Ethoprop	0.0047 U	µg/L	0.0047	0.019
3/6/2017	Field Blank	Pesticides	Atrazine Desethyl	0.0095 U	µg/L	0.0095	0.038
3/6/2017	Field Blank	Pesticides	Azinphos Methyl	0.019 U	µg/L	0.019	0.076
3/6/2017	Field Blank	Pesticides	Bromacil	0.038 UJ	µg/L	0.038	0.15
3/6/2017	Field Blank	Pesticides	Chlorpyrifos Methyl	0.0095 U	µg/L	0.0095	0.038
3/6/2017	Field Blank	Pesticides	Metribuzin	0.019 U	µg/L	0.019	0.076
3/6/2017	Trip Blank	Priority Organic Pollutants	1,2-Dichlorobenzene	0.50 U	µg/L	0.5	2
3/6/2017	Trip Blank	Priority Organic Pollutants	trans-1,3-Dichloropropene	0.20 U	µg/L	0.2	0.8
3/6/2017	Trip Blank	Priority Organic Pollutants	Methylene chloride	3.1 I	µg/L	1	4
3/6/2017	Trip Blank	Priority Organic Pollutants	1,2-Dichloroethane	0.20 U	µg/L	0.2	0.8

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
3/6/2017	Trip Blank	Priority Organic Pollutants	Dibromochloromethane	0.20 U	µg/L	0.2	0.8
3/6/2017	Trip Blank	Priority Organic Pollutants	Trichloroethene	0.20 U	µg/L	0.2	0.8
3/6/2017	Trip Blank	Priority Organic Pollutants	Chloroform	0.20 U	µg/L	0.2	0.8
3/6/2017	Trip Blank	Priority Organic Pollutants	Chlorobenzene	0.20 U	µg/L	0.2	0.8
3/6/2017	Trip Blank	Priority Organic Pollutants	Carbon tetrachloride	0.20 U	µg/L	0.2	0.8
3/6/2017	Trip Blank	Priority Organic Pollutants	1,1-Dichloroethane	0.20 U	µg/L	0.2	0.8
3/6/2017	Trip Blank	Priority Organic Pollutants	1,1,2,2-Tetrachloroethane	0.50 U	µg/L	0.5	2
3/6/2017	Trip Blank	Priority Organic Pollutants	1,1-Dichloroethene	0.20 U	µg/L	0.2	0.8
3/6/2017	Trip Blank	Priority Organic Pollutants	Bromomethane	0.50 U	µg/L	0.5	2
3/6/2017	Trip Blank	Priority Organic Pollutants	Chloromethane	0.50 U	µg/L	0.5	2
3/6/2017	Trip Blank	Priority Organic Pollutants	cis-1,3-Dichloropropene	0.20 U	µg/L	0.2	0.8
3/6/2017	Trip Blank	Priority Organic Pollutants	Benzene	0.20 U	µg/L	0.2	0.8
3/6/2017	Trip Blank	Priority Organic Pollutants	Bromodichloromethane	0.20 U	µg/L	0.2	0.8
3/6/2017	Trip Blank	Priority Organic Pollutants	Trichlorofluoromethane	0.20 U	µg/L	0.2	0.8
3/6/2017	Trip Blank	Priority Organic Pollutants	Vinyl chloride	0.20 U	µg/L	0.2	0.8
3/6/2017	Trip Blank	Priority Organic Pollutants	1,1,1-Trichloroethane	0.20 U	µg/L	0.2	0.8
3/6/2017	Trip Blank	Priority Organic Pollutants	1,1,2-Trichloroethane	0.20 U	µg/L	0.2	0.8
3/6/2017	Trip Blank	Priority Organic Pollutants	1,2-Dichloropropane	0.20 U	µg/L	0.2	0.8
3/6/2017	Trip Blank	Priority Organic Pollutants	1,3-Dichlorobenzene	0.50 U	µg/L	0.5	2
3/6/2017	Trip Blank	Priority Organic Pollutants	1,4-Dichlorobenzene	0.50 U	µg/L	0.5	2
3/6/2017	Trip Blank	Priority Organic Pollutants	Chloroethane	0.50 U	µg/L	0.5	2
3/6/2017	Trip Blank	Priority Organic Pollutants	Ethylbenzene	0.20 U	µg/L	0.2	0.8
3/6/2017	Trip Blank	Priority Organic Pollutants	Toluene	0.50 U	µg/L	0.5	2
3/6/2017	Trip Blank	Priority Organic Pollutants	Bromoform	0.20 U	µg/L	0.2	0.8
3/6/2017	Trip Blank	Priority Organic Pollutants	Tetrachloroethene	0.20 U	µg/L	0.2	0.8

EPA End Sheet

The Bioassay of Georgia-Pacific effluent sampled on March 6, 8, and 10, 2017. NPDES #FL0002763.

Fill Out This Section For All Surface Water Discharger Inspections(CEI, CSI, CBI, PAI, XSI-RI Optional)

Transaction Code	NPDES NUMBER	YR/MO/DA	Insp Type	Inspector	Fac Type
1 N 2 5	3 F L 0 0 0 2 7 6 3	11 12 17 03 06	18 B	19 S	20 2

Remarks

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The Priority Pollutants Analysis of Georgia-Pacific effluent sampled on March 6, 8, and 10, 2017. NPDES #FL0002763.

Fill Out This Section For All Surface Water Discharger Inspections(CEI, CSI, CBI, PAI, XSI-RI Optional)

Transaction Code	NPDES NUMBER	YR/MO/DA	Insp Type	Inspector	Fac Type
1 N 2 5	3 F L 0 0 0 2 7 6 3	11 12 17 03 06	18 X	19 S	20 2

Remarks

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Biological Analyses of Georgia-Pacific effluent sampled on March 6, 8, and 10, 2017. NPDES #FL0002763.

Fill Out This Section For All Surface Water Discharger Inspections(CEI, CSI, CBI, PAI, XSI-RI Optional)

Transaction Code	NPDES NUMBER	YR/MO/DA	Insp Type	Inspector	Fac Type
1 N 2 5	3 F L 0 0 0 2 7 6 3	11 12 17 03 06	18 S	19 S	20 2

Remarks

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