



## **Plant Branch** Monthly Dewatering Results<sup>1</sup> June 2019

	Units	Efflu	ent Concent	ration	Permit Limits			
Parameter		Daily Min <sup>3</sup>	Daily Avg <sup>3</sup>	Daily Max <sup>3</sup>	Daily Min	Daily Avg	Daily Max	
Flow	MGD	0.0	0.0	0.0	***	***	***	
pН	SU	***	***	***	6.00	***	9.00	
Total Suspended Solids	mg/L	***	***	***	***	30.0	100.0	
Oil and Grease	mg/L	***	***	***	***	15.0	20.0	

Parameter	Units		Daily			
Farailletei		Week 1	Week 2	Week 3	Week 4	Average
		No Discharge	No Discharge	No Discharge	No Discharge	
Turbidity	NTU					***
Total Dissolved Solids	mg/L					***
Ammonia	mg/L					***
Total Kjeldahl Nitrogen	mg/L					***
Nitrate-Nitrite	mg/L					***
Organic Nitrogen	mg/L					***
Phosphorus	mg/L					***
Ortho-Phosphorus	mg/L					***
Biological Oxygen Demand	mg/L					***
Hardness	mg/L					***

Parameter	Units	Effluent Concentration⁴				Calculated Receiving Water Concentration <sup>4</sup>					Water Quality Criteria⁵	
Farameter	Week 1	Units	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4	Average	Acute <sup>6</sup>	Chronic <sup>6</sup>
		No Discharge	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge	Average	Acute	Chronic
Arsenic	μg/L									***	340	150
Cadmium	μg/L									***	1	0.43
Chromium <sup>7</sup>	μg/L									***	16	11
Copper	μg/L									***	7	5
Lead	μg/L									***	30	1.2
Nickel	μg/L									***	260	29
Selenium <sup>8</sup>	μg/L									***	***	5
Zinc	μg/L									***	65	65
Mercury	ng/L									***	1400	12

- 1 Tetra Tech verifies the correct laboratory analysis methods were used, any applicable permit limits have been met and other results are protective of Georgia EPD's water quality standards.
- ND = Not Detected (below the lab's reporting limit).

  Not Delive the lab's reporting limit in the month. Daily Avg is the the arithmetic average of all daily values during the entire month.
- Daily min and Daily max are the lowest and nignest values for any day in the month. Daily Avg is the the animment average of all daily values during the entire month. Calculated Receiving Mater Concentration of the dissolved form. Consistent with Georgia EPD, non-detectable effluent concentrations are not translated into Calculated Receiving Water Concentrations.

  Numeric Water Quality Criteria is the maximum concentration of a parameter (calculated at a default, larteness of 50 mg/l. as calcium carbonate) established for the receiving waterbody that will be protective of the designated use per Georgia EPD's rules and regulations. Calculated Receiving Water Concentrations less than these criteria are protective of the waterbody.

  Acute (short-term) water quality Criterion to be compaired with the weekly calculated receiving water concentration.

  Numeric Water quality Criterion shown is for Hexavaelent Chromicu.

  The numeric water quality criterion shown is for Hexavaelent Chromicu.

  The numeric water quality criterion shown is the chronic (long-term) water quality criterion to the compaired with the vertice of the calculated receiving water concentration.

- - mg/L = milligrams per liter = parts per million; µg/L = micrograms per liter = parts per billion; ng/L = nicrograms per liter = parts per billion; ng/L = nicrograms per liter = parts per billion; ng/L = nicrograms per liter = parts per million; NSU = Standard Units; MGD = Million Gallons Day



## **Plant Branch**

Prepared by:



## **Monthly Instream Results**<sup>1</sup>

June 2019

		Lake Sinclair <sup>2</sup>							
Parameter <sup>3</sup>	Units	No Discharge	No Discharge	No Discharge	No Discharge				
		Upstream	Downstream	Upstream	Downstream				
pН	SU								
TSS	mg/L								
O&G	mg/L								
Turbidity	NTU								
TDS	mg/L								
BOD	mg/L								
Arsenic	μg/L								
Cadmium	μg/L								
Chromium	μg/L								
Copper	μg/L								
Lead	μg/L								
Mercury	μg/L								
Nickel	μg/L								
Selenium	μg/L								
Zinc	μg/L								
Ammonia	mg/L								
TKN	mg/L								
Nitrate-Nitrite	mg/L								
Organic Nitrogen	mg/L								
Phosphorus	mg/L								
Ortho-phosphorus	mg/L								
Hardness	mg/L								

- 1 Tetra Tech verifies the correct laboratory analysis methods were used.
- 2 Lake Sinclair measured upstream near lat 33.196636 and long -83.295389, and downstream near lat 33.180392 and long -83.322964
- 3 Metals results are total recoverable.
- 4 ND = Non-detect
  - mg/L = milligrams per liter = parts per million;  $\mu g/L = micrograms$  per liter = parts per billion;
  - ng/L = nanograms per liter = parts per trillion; SU = Standard Units; MGD = Million Gallons Day