



Plant Branch Monthly Dewatering Results¹ June 2020

	Units	Efflu	ent Concent	ration	Permit Limits			
Parameter		Daily Min ²	Daily Avg ²	Daily Max ²	Daily Min	Daily Avg	Daily Max	
Flow	MGD	0.75	1.62	1.70	***	***	***	
pН	SU	6.9	***	8.2	6.0	***	9.0	
Total Suspended Solids	mg/L	ND ³	ND	ND	***	30.0	100.0	
Oil and Grease	mg/L	ND	3.2	7.1	***	15.0	20.0	

Parameter	Units		Daily			
Parameter	Units	Week 1	Week 2	Week 3	Week 4	Average
		6/4/2020	6/11/2020	6/18/2020	6/25/2020	
Turbidity	NTU	0.0	0.2	0.3	0.5	0.2
Total Dissolved Solids	mg/L	ND	ND	18	10	7
Ammonia	mg/L	ND	ND	ND	ND	***
Total Kjeldahl Nitrogen	mg/L	ND	ND	ND	ND	***
Nitrate-Nitrite	mg/L	ND	ND	ND	ND	***
Organic Nitrogen	mg/L	ND	ND	ND	ND	***
Phosphorus	mg/L	ND	ND	ND	ND	***
Ortho-Phosphorus	mg/L	ND	ND	ND	ND	***
Biological Oxygen Demand mg/L		ND	ND	ND	ND	***
Hardness	mg/L	ND	ND	ND	ND	***

Parameter Units		Effluent Cor	ncentration ⁴		Calculated Receiving Water Concentration ⁴					Water Quality Criteria⁵		
Farameter	W	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4	Average	Acute ⁶	Chronic ⁶
		6/4/2020	6/11/2020	6/18/2020	6/25/2020	6/4/2020	6/11/2020	6/18/2020	6/25/2020	Average	Acute C	Chronic
Arsenic	μg/L	ND	ND	ND	ND	***	***	***	***	***	340	150
Cadmium	μg/L	ND	ND	ND	ND	***	***	***	***	***	1	0.43
Chromium ⁷	μg/L	ND	ND	ND	ND	***	***	***	***	***	16	11
Copper	μg/L	ND	ND	ND	ND	***	***	***	***	***	7	5
Lead	μg/L	ND	ND	ND	ND	***	***	***	***	***	30	1.2
Nickel	μg/L	ND	ND	ND	ND	***	***	***	***	***	260	29
Selenium ⁸	μg/L	ND	ND	ND	ND	***	***	***	***	***	***	5
Zinc	μg/L	ND	ND	ND	ND	***	***	***	***	***	65	65
Mercury	ng/L	ND	ND	0.5	ND	***	***	0.2500	***	0.0625	1400	12

- 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.
- Daily Min and Daily Max are the lowest and highest values for any day in the month. Daily Avg is the arithmetic average of all daily values during the entire month.
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- 8 The numeric water quality criterion shown is the chronic (long-term) water quality criterion for selenium since this parameter does not have an acute (short-term) water quality criterion.

 *** In the numeric water quality criterion shown is the chronic (long-term) water quality criterion for selenium since this parameter does not have an acute (short-term) water quality criterion.
 - mg/L = milligrams per liter = parts per million; µg/L = micrograms per liter = parts per billion; ng/L = nanograms per liter = parts per trillion; SU = Standard Units; MGD = Million Gallons Day



Plant Branch

Prepared by:



Monthly Instream Results¹

June 2020

		Lake Sinclair ²						
Parameter ³	Units	6/4/2020	6/4/2020	6/18/2020	6/18/2020			
		Upstream	Downstream	Upstream	Downstream			
рН	SU	8.8	8.0	6.8	7.2			
TSS	mg/L	ND^4	ND	6.0	ND			
O&G	mg/L	ND	ND	ND	ND			
Turbidity	NTU	6.6	4.4	8.1	4.9			
TDS	mg/L	46	33	46	28			
BOD	mg/L	ND	ND	ND	ND			
Arsenic	μg/L	ND	ND	ND	ND			
Cadmium	μg/L	ND	ND	ND	ND			
Chromium	μg/L	ND	ND	ND	ND			
Copper	μg/L	ND	ND	ND	ND			
Lead	μg/L	ND	ND	ND	ND			
Mercury	ng/L	1.3	ND	0.7	0.6			
Nickel	μg/L	ND	ND	ND	ND			
Selenium	μg/L	ND	ND	ND	ND			
Zinc	μg/L	ND	ND	ND	ND			
Ammonia	mg/L	ND	ND	ND	ND			
TKN	mg/L	0.50	0.55	ND	ND			
Nitrate-Nitrite	mg/L	ND	ND	ND	ND			
Organic Nitrogen	mg/L	0.50	0.55	ND	ND			
Phosphorus	mg/L	ND	ND	ND	ND			
Ortho-phosphorus	mg/L	ND	ND	ND	ND			
Hardness	mg/L	17	16	22	17			

- 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

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