

Plant Branch

Prepared by:

TŁ TETRA TECH

Monthly Dewatering Results¹

October 2021

		Efflu	ent Concent	ration	Permit Limits			
Parameter	Units	Daily Min ²	Daily Avg ²	vg ² Daily Max ² Daily		Daily Avg	Daily Max	
Flow	MGD	0.00	0.93	0.96	***	***	***	
рН	SU	6.7	***	8.0	6.0	***	9.0	
Total Suspended Solids	mg/L	ND ³	ND	ND	***	30.0	100.0	
Oil and Grease	mg/L	ND	ND	ND	***	15.0	20.0	

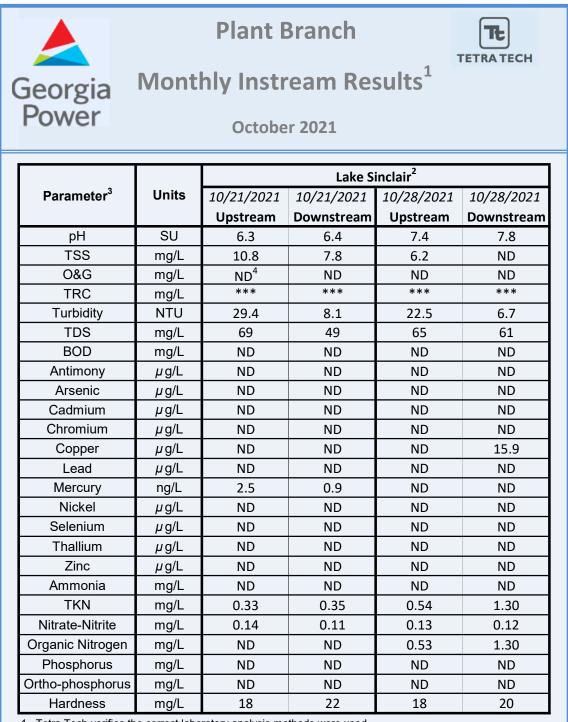
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Parameter	Units	Week 1	Week 2	Week 3	Week 4	Week 5	Daily Average	
		Sampled in September	10/7/2021	10/14/2021	10/21/2021	10/28/2021	Average	
Turbidity ⁴	NTU		0.04	0.04	0.12	0.02	0.06	
Total Residual Chlorine ⁴	mg/L		ND	ND	ND	ND	ND	
Total Dissolved Solids	mg/L		32	35	27	29	31	
Ammonia	mg/L		ND	ND	ND	ND	ND	
Total Kjeldahl Nitrogen	mg/L		ND	ND	ND	ND	ND	
Nitrate-Nitrite	mg/L		ND	ND	ND	ND	ND	
Organic Nitrogen	mg/L		ND	ND	ND	ND	ND	
Phosphorus	mg/L		ND	ND	ND	ND	ND	
Ortho-Phosphorus	mg/L		ND	ND	ND	ND	ND	
Biological Oxygen Demand	mg/L		ND	ND	ND	ND	ND	
Hardness	mg/L		4	4	3	3	4	

		Effluent Concentration ⁵					Calculated Receiving Water Concentration ⁵							Water Quality Criteria ⁶	
Parameter Units	Units	Week 1	Week 2	Week 3	Week 4	Week 5	Week 1	Week 2	Week 3	Week 4	Week 5	Average	Acute ⁷	Chronic ⁷	
		Sampled in September	10/7/2021	10/14/2021	10/21/2021	10/28/2021	Sampled in September	10/7/2021	10/14/2021	10/21/2021	10/28/2021				
Antimony ⁹	μg/L		***	***	ND	ND		***	***	***	***	***	***	640	
Arsenic	μg/L		ND	ND	ND	ND		***	***	***	***	***	340	150	
Cadmium	μg/L		ND	ND	ND	ND		***	***	***	***	***	0.94	0.43	
Chromium ⁸	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 ⁹	μg/L		ND	ND	ND	ND		***	***	***	***	***	***	5	
Thallium9	μg/L		***	***	ND	ND		***	***	***	***	***	***	0.47	
Zinc	μg/L		ND	ND	ND	ND		***	***	***	***	***	65	65	
Mercury	ng/L		ND	ND	ND	ND		***	***	***	***	***	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. ND = Not Detected (below the lab's reporting limit).

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Turbidity and total residual chlorine are monitored continuously. The value reported is the weekly maximum and the daily average is the average of the weekly maximum values reported.
Calculated Receiving Water Concentration shows the effluent concentration at the discharge once it has fully mixed in the receiving waterbody. This value is calculated as a dissolved concentration for an appropriate comparison to the numeric water quality criteria, which are also in the discharge of the weekly maximum values reported.
Calculated Receiving Water Concentration shows the effluent concentrations are not translated into Calculated Receiving Water Concentrations.
Numeric Water Quality Criteria is the maximum concentration of a parameter (calculated at a dafath transfers of 50 mgL as calculated reactiving waterbody that will be protective of the designated use per Georgia EPD's rules and regulations. Calculated Receiving Water Concentrations is for hexavalent Chromium.
Numeric water quality criterion shows is for Hexavalent Chromium.
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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.

*** = Not Applicable.

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