Georgia Power

Plant Branch

Prepared by:



Monthly Dewatering Results¹

June 2023

	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	0.00	0.70	1.37	***	***	***	
рН	SU	6.8	***	8.3	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	

Parameter	Units	Week 1 Week 2		Week 3	Week 4	Week 5	Daily	
		Sampled in May	No Discharge	6/14/2023	6/21/2023	No Discharge	Average	
Turbidity ⁴	NTU			0.1	0.1		0.1	
Total Residual Chlorine ⁴	mg/L			ND	ND		ND	
Total Dissolved Solids	mg/L			120	120		120	
Ammonia	mg/L			ND	ND		ND	
Total Kjeldahl Nitrogen	mg/L			ND	ND		ND	
Nitrate-Nitrite	mg/L			ND	ND		ND	
Organic Nitrogen	mg/L			ND	ND		ND	
Phosphorus	mg/L			ND	ND		ND	
Ortho-Phosphorus	mg/L			ND	ND		ND	
Biological Oxygen Demand	mg/L			5.7	ND		2.9	
Hardness	mg/L			38	36		37	

Effluent Concentration ⁵						Calculated Receiving Water Concentration ⁵						Water Quality Criteria ⁶		
Parameter	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 May	No Discharge	6/14/2023	6/21/2023	No Discharge	Sampled in May	No Discharge	6/14/2023	6/21/2023	No Discharge			
Antimony ⁹	μg/L			ND	ND				***	***		***	***	640
Arsenic	μg/L			ND	ND				***	***		***	340	150
Cadmium	μg/L			ND	ND				***	***		***	0.94	0.43
Chromium ⁸	μg/L			ND	ND				***	***		***	16	11
Copper	μg/L			ND	ND				***	***		***	7	5
Lead	μg/L			ND	ND				***	***		***	30	1.2
Nickel	μg/L			ND	ND				***	***		***	260	29
Selenium ⁹	μg/L			ND	ND				***	***		***	***	5
Thallium9	μg/L			ND	ND				***	***		***	***	0.47
Zinc	μg/L			ND	ND				***	***		***	65	65
Mercury	ng/L			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 Max are the lowest and highest values for any day in the month. Daily Avg is the antitmetic average of all daily values during the entire month.
ND = Not Detected (below the lab's reporting limit).
Turbidity and total residual choirne are monitored continuously. The value reported is the weekly maximum and the daily average is the average of the weekly maximum values reported.
Calculated Reaving 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 discolved form. Consistent with Georgia EPD, non-detectable effluent concentrations are not transisted into Calculated Reaving Water Concentrations.
Numeric Water Quality Criteria is the maximum concentration of a parameter (calculated as a discolve of the weeking Water Concentrations less than these criteria are protective of the waterbody.
Acute (short-term) water quality criterion shows is for Hexavalent Chromium.
Numeric water quality criterion shown are the chronic (long-term) water quality criterion to be compared with the weekly acutated receiving water concentration.
Numeric water quality criterion shown are the chronic (long-term) water quality criteria for an acute (short-term) water quality criterion.
Numeric water quality criteria shown are the chronic (long-term) water quality criteria for an interview water quality criterion.
Numeric water quality criteria shown are the chronic (long-term) water quality criteria for antimory. Selenium, and thallium since these parameters do not have an acute (short-term) water qu



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Monthly Instream Results¹

June 2023

		Lake Sinclair ²							
Parameter ³	Units	6/7/2023	6/7/2023	6/21/2023	6/21/2023				
		Upstream	Downstream	Upstream	Downstream				
рН	SU	7.0	7.3	7.5	7.2				
TSS	mg/L	ND^4	ND	ND	ND				
O&G	mg/L	ND	ND	ND	ND				
TRC	mg/L	***	***	***	***				
Turbidity	NTU	5.8	7.4	4.4	5.1				
TDS	mg/L	65	55	50	56				
BOD	mg/L	ND	2.7	ND	ND				
Antimony	μg/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	0.7	0.7	0.7	0.7				
Nickel	μg/L	ND	ND	ND	ND				
Selenium	μg/L	ND	ND	ND	ND				
Thallium	μg/L	ND	ND	ND	ND				
Zinc	μg/L	ND	ND	ND	ND				
Ammonia	mg/L	ND	ND	ND	ND				
TKN	mg/L	ND	ND	0.51	0.56				
Nitrate-Nitrite	mg/L	ND	ND	ND	ND				
Organic Nitrogen	mg/L	ND	ND	0.51	0.55				
Phosphorus	mg/L	ND	ND	ND	ND				
Ortho-phosphorus	mg/L	ND	ND	ND	ND				
Hardness	mg/L	24	21	21	20				

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.

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