



August 2024

		Efflu	ent Concent	ration	Permit Limits			
Parameter	Units	Daily Min <sup>2</sup>	Daily Avg <sup>2</sup>	Daily Max <sup>2</sup>	Daily Min	Daily Avg	Daily Max	
Flow	MGD	0.00	0.39	0.57	***	***	***	
pН	SU	7.0	***	7.9	6.0	***	9.0	
Total Suspended Solids	mg/L	ND <sup>3</sup>	ND	ND	***	30.0	100.0	
Oil and Grease	mg/L	ND	ND	ND	***	15.0	20.0	

	Units						
Parameter		Week 1	Week 2	Week 3	Week 4	Week 5	Daily
		No Discharge	No Discharge	No Discharge	8/21/2024	8/28/2024	Average
Turbidity <sup>4</sup>	NTU				0.1	0.1	0.1
Total Residual Chlorine <sup>4</sup>	mg/L				ND	ND	ND
Total Dissolved Solids	mg/L				146	82	114
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				2.8	ND	1.4
Hardness	mg/L				23	26	25

		Effluent Concentration <sup>5</sup>					Calculated Receiving Water Concentration <sup>5</sup>					Water Quality Criteria <sup>6</sup>		
Parameter	Units	Week 1	Week 2	Week 3	Week 4	Week 5	Week 1	Week 2	Week 3	Week 4	Week 5			
		No Discharge	No Discharge	No Discharge	8/21/2024	8/28/2024	No Discharge	No Discharge	No Discharge	8/21/2024	8/28/2024	Average	Acute <sup>7</sup>	Chronic <sup>7</sup>
Antimony <sup>9</sup>	μg/L				ND	ND				***	***	***	***	640
Arsenic	μg/L				ND	ND				***	***	***	340	150
Cadmium	μg/L				ND	ND				***	***	***	0.94	0.43
Chromium <sup>8</sup>	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 <sup>9</sup>	μg/L				ND	ND				***	***	***	***	5
Thallium <sup>9</sup>	μg/L				ND	ND				***	***	***	***	0.47
Zinc	μg/L				ND	ND				***	***	***	65	65
Mercury	ng/L				ND	ND				***	***	***	1400	12

Georgia Power



## **Plant Branch**

Prepared by:



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

August 2024

		Lake Sinclair <sup>2</sup>						
Parameter <sup>3</sup>	Units	8/21/2024	8/21/2024	8/28/2024	8/28/2024			
		Upstream	Downstream	Upstream	Downstream			
рН	SU	7.1	7.2	7.8	7.6			
TSS	mg/L	$ND^4$	ND	ND	ND			
O&G	mg/L	ND	ND	ND	ND			
TRC	mg/L	***	***	***	***			
Turbidity	NTU	5.7	4.8	2.9	2.7			
TDS	mg/L	55	54	58	65			
BOD	mg/L	2.2	ND	2.2	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	ND	ND	0.8	0.9			
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	0.62	1.80			
Nitrate-Nitrite	mg/L	0.05	ND	ND	ND			
Organic Nitrogen	mg/L	ND	ND	0.62	1.80			
Phosphorus	mg/L	ND	ND	ND	ND			
Ortho-phosphorus	mg/L	ND	ND	ND	ND			
Hardness	mg/L	25	23	23	24			

- 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;  $\mu g/L = micrograms$  per liter = parts per billion; ng/L = nanograms per liter = parts per trillion;  $SU = Standard\ Units$ ;  $MGD = Million\ Gallons\ Day$