eorgia Power	1		Prepared b	Y: TETRAT						
		Parameter Flow		Units	Effluent Concentration Minimum Maximum		Permit Limits Daily Avg Daily Max			
				MGD	0	1.429	***	***		
		pН		SU	6.5	8.5	6.0 -	- 9.0		
		Total Suspended Solids		mg/L	ND ²	18.5	30.0	100.0		
		þ	Oil and Grease		ND	ND	15.0	20.0		
	ĺ	Parameter		Units	Meas	red Effluent Concentration				
		i uluitotoi		onto	3/6/2019	3/11/2019	3/19/2019	3/25/2019	i i	
		Tu	irbidity	NTU	3.1	5.3	3.3	2.6	~	
		Total Dis	solved Solids	mg/L	322	323	306	294	7	
		Ammonia		mg/L	0.16	0.43	ND	ND		
		Total Kjeldahl Nitrogen		mg/L	ND	ND	ND	ND	7	
		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		nd mg/L	ND	ND	ND	ND		
		Hardness		mg/L	196	186	184	176		
Parameter	Units	Effluent Concentratior			on ³		Calculated Lake Value ³		3	Water Quality
		3/6/2019	3/11/2019	3/19/2019	3/25/2019	3/6/2019	3/11/2019	3/19/2019	+	Standard
Arsenic	μg/L	ND	6.7	ND	ND	***	1.961	***	***	340
Cadmium	μg/L	ND	ND	ND	ND	***	***	***	***	1
Chromium ⁵	μg/L	ND	ND	ND	ND	***	***	***	***	16
Copper	μg/L	ND	ND	ND	ND	***	***	***	***	7
Lead	μg/L	ND	ND	ND	ND	***	***	***	***	30
Nickel	μg/L	ND	ND	ND	ND	***	***	***	***	260
Selenium ⁶	μg/L	ND	ND	ND	15.6	***	***	***	7.810	5
Zinc	μg/L	ND	ND	56.4	ND	***	***	28.25	***	65
Mercury	ng/L	2.23	0.98	0.60	0.87	0.3544	0.1442	0.2980	0.4343	1400

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.

2 ND = Not Detected.

3 Calculated Lake Value shows what the total effluent concentration looks like 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 dissolved form. Consistent with Georgia EPD, non-detectable effluent concentrations are not translated into calculated lake values.

4 Numeric Water Quality Criteria is the maximum concentration of a parameter (calculated at a default hardness of 50 mg/L as calculum carbonate) established for the receiving waterbody that will be protective of the designated use per Georgia EPD's rules and regulations. Calculated Lake Values less than these criteria are protective of the waterbody.

5 Numeric water quality criterion shown is for Hexavalent Chromium.

6 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. The selenium water quality criterion is compared to the average in-lake concentration, which for March was calculated as 1.95 ug/L.

*** = 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



Plant Branch

Monthly Instream Results¹



March 2019

		Lake Sinclair ²						
Parameter ³	Units	3/11/2019	3/11/2019	3/19/2019	3/19/2019			
		Upstream	Downstream	Upstream	Downstream			
рН	SU	6.17	6.48	6.97	7.23			
TSS	mg/L	10.0	11.5	14.3	8.6			
O&G	mg/L	ND	ND	ND	ND			
Turbidity	NTU	18.2	14.6	30.1	9.1			
TDS	mg/L	73	78	73	67			
BOD	mg/L	ND	2.3	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	1.9	1.9	2.8	1.5			
Nickel	μg/L	ND	ND	ND	ND			
Selenium	μg/L	ND	ND	ND	ND			
Zinc	μg/L	ND	ND	ND	ND			
Ammonia	mg/L	0.1	ND	ND	0.11			
TKN	mg/L	ND	ND	ND	ND			
Nitrate-Nitrite	mg/L	0.18	0.23	0.22	0.40			
Organic Nitrogen	mg/L	ND	ND	ND	ND			
Phosphorus	mg/L	ND	ND	ND	ND			
Ortho-phosphorus	mg/L	ND	ND	ND	ND			
Hardness	mg/L	22.3	23.6	20.9	23.3			

1 Tetra Tech verifies the correct laboratory analysis methods were used.

2 Lake Sinclair measured upstream near latitude 33.196636 and downstream near longitude -83.295389.

3 Metals results are total recoverable.

4 ND = Non-detect

- mg/L = milligrams per liter = parts per million; μ g/L = micrograms per liter = parts per billion;
- ng/L = nanograms per liter = parts per trillion; SU = Standard Units; MGD = Million Gallons Day