

### **Plant Branch**

Prepared by: TETRA TECH

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

December 2022

	Units	Efflu	ent Concent	ration	Permit Limits			
Parameter		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	1.24	1.34	***	***	***	
рН	SU	6.7	***	8.4	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	

Parameter	Units		Daily			
Farameter		Week 1	Week 2	Week 3	Week 4	Average
		12/7/2022	12/14/2022	12/21/2022	No Discharge	
Turbidity <sup>4</sup>	NTU	3.49	0.07	0.04		1.20
Total Residual Chlorine <sup>4</sup>	mg/L	ND	ND	ND		ND
Total Dissolved Solids	mg/L	35	36	45		39
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	8	23	7		13

Baramatar	Parameter Units			Calculated Receiving Water Concentration⁵					Water Quality Criteria <sup>6</sup>			
Parameter	Units	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4	Average	7	Ohmenie <sup>7</sup>
		12/7/2022	12/14/2022	12/21/2022	No Discharge	12/7/2022	12/14/2022	12/21/2022	No Discharge		Acute' Chroni	Chronic <sup>7</sup>
Antimony <sup>9</sup>	μg/L	ND	ND	ND		***	***	***		***	***	640
Arsenic	μg/L	ND	ND	ND		***	***	***		***	340	150
Cadmium	μg/L	ND	ND	ND		***	***	***		***	0.94	0.43
Chromium <sup>8</sup>	μg/L	ND	ND	ND		***	***	***		***	16	11
Copper	μg/L	ND	ND	ND		***	***	***		***	7	5
Lead	μg/L	ND	ND	ND		***	***	***		***	30	1.2
Nickel	μg/L	ND	ND	ND		***	***	***		***	260	29
Selenium <sup>9</sup>	μg/L	ND	ND	ND		***	***	***		***	***	5
Thallium <sup>9</sup>	μg/L	ND	ND	ND		***	***	***		***	***	0.47
Zinc	μg/L	ND	ND	ND		***	***	***		***	65	65
Mercury	ng/L	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. 1

2 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.

Daily Min and Daily Max are the lowest and highest values for any day in the month. Daily Ary is the arithmetic average of all daily values during the entire month.
ND = Not Detected (below the lab's reporting limit).
Turbitity and total residual choirine 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 effuent concentration at the discharge once it has killy invited 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 Georging EDPD, on edetectable effuent concentration are not translated Into Calculated Receiving Water Concentration of a parameter (calculated at a default hardness of 50 mgL as calcium carbonate) established for the receiving waterbody that will be protective of the designated use per Georgia EDPD is undetected by effort end these criterian are protective of the waterbody.
Aurencic Water Quality Criteria is the maximum concentration of a parameter (calculated at a default hardness of 50 mgL as calcium carbonate) established for the receiving waterbody that will be protective of the designated use per Georgia EDPD is undetected by.
Aurencic water quality criterion to be compared with the weekly calculated receiving water concentration. Chornic (long-term) water quality criterion to be compared with the weekly calculated receiving water concentration.
Numeric water quality criteria shown are the chronic (long-term) water quality criteria to na acute (short-term) water quality criterian.
Not Applicable
Not Applicable
Not Applicable
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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 Results<sup>1</sup>

#### December 2022

		Lake Sinclair <sup>2</sup>							
Parameter <sup>3</sup>	Units	12/7/2022	12/7/2022	12/21/2022	12/21/2022				
		Upstream	Downstream	Upstream	Downstream				
рН	SU	6.9	6.7	6.8	6.6				
TSS	mg/L	$ND^4$	ND	5.2	ND				
O&G	mg/L	ND	ND	ND	ND				
TRC	mg/L	***	***	***	***				
Turbidity	NTU	3.0	3.7	8.1	5.3				
TDS	mg/L	64	62	69	91				
BOD	mg/L	ND	ND	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	0.6	0.6	1.0	0.8				
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	ND	ND				
Nitrate-Nitrite	mg/L	ND	ND	0.12	0.06				
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	23	22	25	23				

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