

## **Plant Bowen**

Prepared by:

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

December 2024

Parameter	Units	Efflu	ent Concent	ration	Permit Limits			
		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	0.83	1.02	***	***	***	
рН	SU	6.7	***	7.4	6.0	***	9.0	
Total Suspended Solids	mg/L	ND <sup>3</sup>	ND	ND	ND	30.0	100.0	
Oil and Grease	mg/L	ND	ND	ND	ND	15.0	20.0	

Parameter	Units	Week 1	Week 2	Week 3	Week 4	Week 5	Daily
		12/2/2024	No Discharge	12/16/2024	No Discharge	Sampled in January	Average
Turbidity <sup>4</sup>	NTU	3.9		1.4			2.6
Total Residual Chlorine <sup>4</sup>	mg/L	ND		ND			ND
Total Dissolved Solids	mg/L	1790		1470			1630
Ammonia	mg/L	0.14		ND			0.07
Total Kjeldahl Nitrogen	mg/L	0.74		0.71			0.73
Nitrate-Nitrite	mg/L	0.07		0.34			0.21
Organic Nitrogen	mg/L	0.60		0.67			0.64
Phosphorus	mg/L	ND		ND			ND
Ortho-Phosphorus	mg/L	ND		ND			ND
Biological Oxygen Demand	mg/L	2.3		4.1			3.2
Hardness	mg/L	1180		1100			1140

	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			
		12/2/2024	No Discharge	12/16/2024	No Discharge	Sampled in	12/2/2024	No Discharge	12/16/2024	No Discharge	Sampled in	Average	Acute <sup>7</sup>	Chronic <sup>7</sup>
		12/2/2024	No Discharge	12/10/2024	No Discharge	January	12/2/2024	No Discharge	12/10/2024	No Discharge	January			
Antimony <sup>9</sup>	μg/L	ND		ND			***		***			***	***	640
Arsenic	μg/L	6.4		8.7			0.0405		0.0551			0.0478	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		2.3			***		0.0146			0.0073	7	5
Lead	μg/L	ND		ND			***		***			***	30	1.2
Nickel	μg/L	ND		1.6			***		0.0101			0.0051	260	29
Selenium <sup>9</sup>	μg/L	82.6		95.9			0.5232		0.6075			0.5654	***	5
Thallium <sup>9</sup>	μg/L	ND		1.1			***		0.0070			0.0035	***	0.47
Zinc	μg/L	ND		ND			***		***			***	65	65
Mercury	ng/L	1.3		3.0			0.0080		0.0188			0.0134	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).
Turbidity and total residual choine 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 luily mutation in the receiving waterbody. This value is calculated as a discloved concentration for an appropriate comparison to the numeric water quality criteria is the maximum concentrations are not effectable effluent concentrations are not effectable effluent concentrations.
Numeric Water Couldity Criteria is the maximum concentrations less than these criteria are protective of the weekly maximum values reported.
Acute (stort-term) water quality criterion to be compared with the weekly calculated at a default hardness of 50 mg/L as calculated for the receiving waterbody that will be protective of the designated use per Georgia EPD. or how are requised for the receiving water quality criterion to be compared with the weekly calculated receiving water concentrations.
Acute (stort-term) water quality criterion to be compared with the weekly calculated receiving water concentration.
Numeric water quality criterion shown is for Hexavalent Chromium.
The numeric water quality criteria shown are the chronic (ong-term) water quality criterion, to be chronic (ong-term) water quality criterion to be chronic relom the term) water quality criterion to have an acute (short-term) water quality criterion.
<

mg/L = millionrams 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

TŁ TETRA TECH



## Plant Bowen

Prepared by:



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

December 2024

		Etowah River <sup>2</sup>							
Parameter <sup>3</sup>	Units	12/2/2024	12/2/2024	12/16/2024	12/16/2024				
		Upstream	Downstream	Upstream	Downstream				
рН	SU	6.8	7.0	7.2	7.2				
TSS	mg/L	20.0	16.0	ND	ND				
O&G	mg/L	ND <sup>4</sup>	ND	ND	ND				
TRC	mg/L	***	***	***	***				
Turbidity	NTU	13.7	7.0	7.1	6.0				
TDS	mg/L	105	109	79	98				
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	4.9	6.4	1.5	1.6				
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	0.39	0.44	0.44	0.43				
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	28	34	35	33				

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

2 Etowah River measured 1000ft upstream and 1000ft downstream of the Final Plant Discharge (Outfall 001)

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