Georgia Power

Plant Bowen

Prepared by:

Monthly Dewatering Results¹

February 2024

	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	1.00	1.28	***	***	***	
рН	SU	6.9	***	7.7	6.0	***	9.0	
Total Suspended Solids	mg/L	ND ³	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
		Sampled in January	2/5/2024	2/13/2024	2/19/2024	No Discharge	Average
Turbidity ⁴	NTU		0.9	1.7	2.0		1.5
Total Residual Chlorine ⁴	mg/L		ND	ND	ND		ND
Total Dissolved Solids	mg/L		1290	1150	1180		1207
Ammonia	mg/L		ND	ND	ND		ND
Total Kjeldahl Nitrogen	mg/L		ND	ND	ND		ND
Nitrate-Nitrite	mg/L		0.43	0.47	0.45		0.45
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		811	747	758		772

		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			Chronic ⁷
		Sampled in January	2/5/2024	2/13/2024	2/19/2024	No Discharge	Sampled in January	2/5/2024	2/13/2024	2/19/2024	No Discharge	Average	Acute ⁷	
Antimony ⁹	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 ⁸	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
Selenium9	μg/L		31.9	27.4	28.0			0.2534	0.2176	0.2224		0.2311	***	5
Thallium9	μg/L		ND	ND	ND			***	***	***		***	***	0.47
Zinc	μg/L		ND	ND	ND			***	***	***		***	65	65
Mercury	ng/L		2.6	1.8	2.8			0.0205	0.0145	0.0226		0.0192	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 choire 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 fully mixed in the receiving waterbody. This value is calculated as a dissolved concentrations.
Numeric Water Cuality Criteria is the maximum concentration of a parameter (calculated ta aciduit hardressi of 50 mg), as calcium controles testibility and water of the weekly maximum and the daily average is the average of the weekly maximum values reported.
Numeric Water Cuality Criteria is the maximum concentration of a parameter (calculated as a dissolved form. Consistent with Georgia EPD, non-detectable effluent concentrations are not translated into Calculated Receiving Water Concentrations.
Numeric Water Cuality Criteria is the maximum concentration of a parameter (calculated as a distul hardress of 50 mg), as calcium control content content of a parameter (calculated receiving water concentration; Chonic (long-term) water quality criterion is to ensign water concentration.
Acute (short-term) water quality criterion shown is for Hexavalent Chornium.
The numeric water quality criteria show mare the chonic (long-term) water quality criteria on the average calculated receiving water concentration; Chonic (long-term) water quality criterion shown is for Hexavalent Chornium.
The numeric water qual





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Monthly Instream Results¹

February 2024

		Etowah River ²							
Parameter ³	Units	2/5/2024	2/5/2024	2/13/2024	2/13/2024				
		Upstream	Downstream	Upstream	Downstream				
рН	SU	7.0	7.0	7.0	7.0				
TSS	mg/L	13.0	17.0	205.0	194.0				
O&G	mg/L	5.8	ND^4	ND	ND				
TRC	mg/L	***	***	***	***				
Turbidity	NTU	31.6	27.8	130.0	183.0				
TDS	mg/L	47	45	75	90				
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	9.5	9.2				
Copper	μg/L	ND	ND	8.3	8.3				
Lead	μg/L	ND	ND	5.2	5.3				
Mercury	ng/L	3.4	4.3	15.6	14.3				
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	20.9	22.1				
Ammonia	mg/L	ND	ND	ND	ND				
TKN	mg/L	ND	ND	1.00	0.97				
Nitrate-Nitrite	mg/L	0.47	0.46	0.30	0.25				
Organic Nitrogen	mg/L	ND	ND	1.00	0.94				
Phosphorus	mg/L	ND	ND	0.14	0.15				
Ortho-phosphorus	mg/L	ND	ND	ND	ND				
Hardness	mg/L	19	18	28	31				

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; µg/L = micrograms per liter = parts per billion; ng/L = nanograms per liter = parts per trillion; SU = Standard Units; MGD = Million Gallons Day