

Plant Bowen



ŦŁ **TETRA TECH**

Monthly Dewatering Results¹

July 2019

	Units	Efflu	ent Concent	ration	Permit Limits			
Parameter		Daily Min ³	Daily Avg ³	Daily Max ³	Daily Min	Daily Avg	Daily Max	
Flow	MGD	0.0	0.0	0.0	***	***	***	
рН	SU	***	***	***	6.00	***	9.00	
Total Suspended Solids	mg/L	***	***	***	***	30.0	100.0	
Oil and Grease	mg/L	***	***	***	***	15.0	20.0	

Parameter	Units		Daily			
Falameter		Week 1	Week 2	Week 3	Week 4	Average
		No Discharge	No Discharge	No Discharge	No Discharge	
Turbidity	NTU					***
Total Dissolved Solids	mg/L					***
Ammonia	mg/L					***
Total Kjeldahl Nitrogen	mg/L					***
Nitrate-Nitrite	mg/L					***
Organic Nitrogen	mg/L					***
Phosphorus	mg/L					***
Ortho-Phosphorus	mg/L					***
Biological Oxygen Demand	mg/L					***
Hardness	mg/L					***

Parameter Units				Calculated Receiving Water Concentration ⁴					Water Quality Criteria⁵			
Farameter	Units	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4	Average	Acute ⁶	Chronic ⁶
		No Discharge	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge			
Arsenic	μg/L									***	340	150
Cadmium	μg/L									***	1	0.43
Chromium ⁷	μg/L									***	16	11
Copper	μg/L									***	7	5
Lead	μg/L									***	30	1.2
Nickel	μg/L									***	260	29
Selenium ⁸	μg/L									***	***	5
Zinc	μg/L									***	65	65
Mercury	ng/L									***	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

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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. ND = Not Detected (below the lab's reporting limit). Daily Man and Daily Max are the lowest and highest values for any day in the month. Daily Avg is the the arithmetic average of all daily values during the entire month. 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 concentration for an appropriate comparison to the numeric water quality criteria is the maximum concentration of a parameter (calculated at default hardness of 50 mg/L as calculated as a dissolved concentrations. Numeric Water Quality Criteria is the maximum concentration is parameter (calculated at default hardness of 50 mg/L as calculated as a dissolved that will be protective of the designated use per Georgia EPD's rules and regulations. Calculated Receiving Water Concentrations less than these criteria are protective of the waterbody. Acute (short-term) water quality criterion to be compaired with the weekly calculated receiving water concentration. Numeric water quality criterion shown is for Hexavalent Chromium. The numeric water quality criterion shown is the chronic (long-term) water quality criterion shown is the chronic (long-term) water quality criterion to be compaired with the average calculated receiving water concentration. Numeric water quality criterion shown is for Hexavalent Chromium. 4

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8 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.

*** = 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 Bowen

Prepared by:



Monthly Instream Results¹

July 2019

		Etowah River ²							
Parameter ³	Units	No Discharge	No Discharge	No Discharge	No Discharge				
		Upstream	Downstream	Upstream	Downstream				
pН	SU								
TSS	mg/L								
O&G	mg/L								
Turbidity	NTU								
TDS	mg/L								
BOD	mg/L								
Arsenic	µg/L								
Cadmium	μg/L								
Chromium	µg/L								
Copper	µg/L								
Lead	μg/L								
Mercury	µg/L								
Nickel	μg/L								
Selenium	µg/L								
Zinc	µg/L								
Ammonia	mg/L								
TKN	mg/L								
Nitrate-Nitrite	mg/L								
Organic Nitrogen	mg/L								
Phosphorus	mg/L								
Ortho-phosphorus	mg/L								
Hardness	mg/L								

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

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