

**Plant Bowen** 

Prepared by: TETRA TECH

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

July 2024

	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	0.74	1.00	***	***	***	
рН	SU	6.6	***	7.9	6.0	***	9.0	
Total Suspended Solids	mg/L	ND <sup>3</sup>	1.7	5.2	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
i arameter		No Discharge	7/8/2024	No Discharge	7/22/2024	7/29/2024	Average
Turbidity <sup>4</sup>	NTU		3.4		3.1	0.7	2.4
Total Residual Chlorine <sup>4</sup>	mg/L		ND		ND	ND	ND
Total Dissolved Solids	mg/L		2500		2320	1870	2230
Ammonia	mg/L		0.95		0.17	ND	0.37
Total Kjeldahl Nitrogen	mg/L		1.50		ND	0.86	0.79
Nitrate-Nitrite	mg/L		ND		0.16	0.12	0.09
Organic Nitrogen	mg/L		0.55		ND	0.82	0.46
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		1580		1480	1190	1417

		Effluent Concentration <sup>5</sup>					Calculated Receiving Water Concentration <sup>5</sup>					Water Quality Criteria <sup>6</sup>		
Parameter Units	Units	Week 1	Week 2	Week 3	Week 4	Week 5	Week 1	Week 2	Week 3	Week 4	Week 5	Average		Chronic <sup>7</sup>
		No Discharge	7/8/2024	No Discharge	7/22/2024	7/29/2024	No Discharge	7/8/2024	No Discharge	7/22/2024	7/29/2024		Acute <sup>7</sup>	
Antimony <sup>9</sup>	μg/L		ND		ND	ND		***		***	***	***	***	640
Arsenic	μg/L		7.4		9.3	6.5		0.0461		0.0490	0.0405	0.0452	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
Selenium9	μg/L		12.0		21.3	46.1		0.0748		0.1328	0.2875	0.1650	***	5
Thallium9	μg/L		ND		ND	ND		***		***	***	***	***	0.47
Zinc	μg/L		ND		ND	ND		***		***	***	***	65	65
Mercury	ng/L		0.8		1.0	0.8		0.0049		0.0062	0.0049	0.0054	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 Arg is the arithmetic average of all daily values during the entire month. ND = Not Detected (below the lab's reporting limit). 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 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 on the translated into Calculated Receiving Water 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 can that and the daily average is the average of the receiving waterbody. This value is calculated Receiving Water Concentration for an appropriate comparison to the numeric water quality criteria, Sciulated Receiving Water Concentrations are are protective of the waterbody. Acute (short-term) water quality criterion to be compared with the weekly calculated receiving water concentration. Numeric water quality criterion to be compared with the weekly calculated receiving water concentration. Numeric water quality criterion hows for the successful Chromium. The numeric water quality criterion shows are the chronic (long-term) water quality criterion to the average calculated receiving water concentration. + e Not Applicable 6

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

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## July 2024

		Etowah River <sup>2</sup>							
Parameter <sup>3</sup>	Units	7/8/2024	7/8/2024	7/22/2024	7/22/2024				
		Upstream	Downstream	Upstream	Downstream				
рН	SU	7.4	7.3	7.1	7.2				
TSS	mg/L	$ND^4$	ND	11.0	14.0				
O&G	mg/L	ND	ND	ND	ND				
TRC	mg/L	***	***	***	***				
Turbidity	NTU	3.1	5.3	20.5	21.6				
TDS	mg/L	67	78	86	78				
BOD	mg/L	ND	3.4	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	1.1	1.3	2.1	2.2				
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	0.90	0.53	ND	ND				
Nitrate-Nitrite	mg/L	0.51	0.53	0.53	0.52				
Organic Nitrogen	mg/L	0.90	0.53	ND	ND				
Phosphorus	mg/L	ND	ND	ND	ND				
Ortho-phosphorus	mg/L	ND	ND	ND	ND				
Hardness	mg/L	41	44	42	52				

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