

Prepared by: TŁ TETRA TECH

Monthly Dewatering Results¹ December 2021

Plant Yates

Daniel Co.	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	0.63	1.08	***	***	***	
pН	SU	6.7	***	7.8	6.0	***	9.0	
Total Suspended Solids	mg/L	ND^3	3.3	6.4	***	30.0	100.0	
Oil and Grease	mg/L	ND	ND	ND	***	15.0	20.0	

			Daily				
Parameter	Units	Week 1	Week 2	Week 3	Week 4	Week 5	Average
		12/1/2021	12/7/2021	12/14/2021	12/21/2021	12/28/2021	
Turbidity ⁴	NTU	2.5	3.2	4.9	2.1	3.0	3.2
Total Residual Chlorine ⁴	mg/L	ND	ND	ND	ND	ND	ND
Total Dissolved Solids	mg/L	710	508	431	387	438	495
Ammonia	mg/L	1.20	1.10	0.85	0.57	0.35	0.81
Total Kjeldahl Nitrogen	mg/L	1.40	1.20	1.10	0.71	ND	0.88
Nitrate-Nitrite	mg/L	0.35	0.42	0.42	0.33	0.40	0.38
Organic Nitrogen	mg/L	ND	ND	ND	ND	ND	ND
Phosphorus	mg/L	ND	ND	ND	ND	ND	ND
Ortho-Phosphorus	mg/L	ND	ND	ND	ND	ND	ND
Biological Oxygen Demand	mg/L	ND	ND	ND	3.7	ND	0.7
Hardness	mg/L	452	340	258	215	242	301

		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	Average	Acute ⁷	Chronic ⁷
		12/1/2021	12/7/2021	12/14/2021	12/21/2021	12/28/2021	12/1/2021	12/7/2021	12/14/2021	12/21/2021	12/28/2021			
Arsenic	μg/L	7.1	ND	ND	ND	ND	0.0103	***	***	***	***	0.0021	340	150
Cadmium	μg/L	ND	ND	ND	ND	ND	***	***	***	***	***	***	0.94	0.43
Chromium ⁸	μg/L	ND	ND	ND	ND	ND	***	***	***	***	***	***	16	11
Copper	μg/L	ND	ND	ND	ND	ND	***	***	***	***	***	***	7	5
Lead	μg/L	ND	ND	ND	ND	ND	***	***	***	***	***	***	30	1.2
Nickel	μg/L	7.7	5.6	ND	ND	ND	0.0118	0.0085	***	***	***	0.0041	260	29
Selenium ⁹	μg/L	ND	ND	8.4	7.7	7.9	***	***	0.0137	0.0125	0.0129	0.0078	***	5
Zinc	μg/L	ND	ND	ND	ND	ND	***	***	***	***	***	***	65	65
Mercury	ng/L	0.7	0.9	0.5	0.7	1.0	0.0011	0.0014	0.0009	0.0012	0.0016	0.0012	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 residuals chlorine 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 form. Consistent with Georgia EPD, non-detectable effluent concentrations are not interested in the calculated Receiving Water Concentration for an appropriate comparison to the numeric water quality criteria is the maximum concentration of a parameter (calculated at a default hardness of 50 mg/l. acid-unic actionary contracts of the receiving waterbody. This value is calculated Receiving Water Concentrations less than these criteria are protectable of the receiving waterbody 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 water quality criterion shown is to Hexavalent Chromium.

 Numeric water quality criterion shown is the Hexavalent Chromium.

 The numeric water quality criterion shown is the Archival Chromium.

 The numeric water quality criterion shown is the chronic (long-term) water quality criterion shown is to the Nasvalent Chromium.

 The numeric water quality criterion shown is the chronic (long-term) water quality criterion shown is the chronic (l





Monthly Instream Results¹

Plant Yates



December 2021

		Chattahoochee River ²							
Parameter ³	Units	12/1/2021 Upstream	12/1/2021 Downstream	12/14/2021 Upstream	12/14/2021 Downstream				
рН	SU	6.9	6.9	6.9	7.1				
TSS	mg/L	ND ⁴	ND	6.2	ND				
O&G	mg/L	ND	ND	ND	ND				
TRC	mg/L	***	***	***	***				
Turbidity	NTU	3.9	4.7	8.8	9.7				
TDS	mg/L	75	85	90	83				
BOD	mg/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	0.5	0.6	1.4	1.6				
Nickel	μg/L	ND	ND	ND	ND				
Selenium	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	0.68	ND				
Nitrate-Nitrite	mg/L	2.00	2.00	1.80	1.80				
Organic Nitrogen	mg/L	ND	ND	0.64	ND				
Phosphorus	mg/L	ND	ND	ND	ND				
Ortho-phosphorus	mg/L	ND	ND	ND	ND				
Hardness	mg/L	29	33	34	35				

- 1 Tetra Tech verifies the correct laboratory analysis methods were used.
- 2 Chattahoochee River measured 1000 ft upstream and 1000 ft downstream from the final discharge at Outfall 01.
- 3 Metals results are total recoverable.
- 4 ND = Non-detect
- *** = Not Applicable

 $mg/L = milligrams per liter = parts per million; <math>\mu g/L = micrograms per liter = parts per billion; ng/L = nanograms per liter = parts per trillion; SU = Standard Units; MGD = Million Gallons Day$