

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

TETRA TECH

## September 2021

B to	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	1.42	2.28	***	***	***	
pН	SU	6.9	***	8.3	6.0	***	9.0	
Total Suspended Solids	mg/L	$ND^3$	ND	ND	***	30.0	100.0	
Oil and Grease	mg/L	ND	ND	ND	***	15.0	20.0	

Dovernotor	I I a i i a		Daily					
Parameter	Units	Week 1	Week 2	Week 3	Week 4	Week 5	Average	
		9/1/2021	9/9/2021	9/14/2021	9/23/2021	9/28/2021		
Turbidity <sup>4</sup>	NTU	3.9	5.2	1.9	1.5	2.6	3.0	
Total Residual Chlorine <sup>4</sup>	mg/L	ND	ND	ND	ND	ND	ND	
Total Dissolved Solids	mg/L	321	248	436	513	568	417	
Ammonia	mg/L	0.21	ND	0.36	0.36	0.34	0.25	
Total Kjeldahl Nitrogen	mg/L	ND	ND	0.59	ND	0.64	0.25	
Nitrate-Nitrite	mg/L	0.14	0.16	0.11	0.20	0.14	0.15	
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	ND	2.0	0.4	
Hardness	mg/L	189	158	261	330	362	260	

Danamatan II	1114	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	A	7	a 7
	9/1/2021	9/9/2021	9/14/2021	9/23/2021	9/28/2021	9/1/2021	9/9/2021	9/14/2021	9/23/2021	9/28/2021	Average	Acute'	Chronic <sup>7</sup>	
Arsenic	μg/L	ND	ND	ND	ND	ND	***	***	***	***	***	***	340	150
Cadmium	μg/L	ND	ND	ND	ND	ND	***	***	***	***	***	***	0.94	0.43
Chromium <sup>8</sup>	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	ND	ND	ND	6.9	ND	***	***	***	0.0237	***	0.0047	260	29
Selenium <sup>9</sup>	μg/L	11.5	9.1	8.2	6.4	5.2	0.0395	0.0312	0.0282	0.0220	0.0179	0.0277	***	5
Zinc	μg/L	ND	ND	ND	ND	ND	***	***	***	***	***	***	65	65
Mercury	ng/L	0.9	0.9	ND	0.7	0.7	0.0032	0.0029	***	0.0025	0.0022	0.0022	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 insked 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 calculated Receiving Water Concentrations less than these criteria are protective of the water quality criterion by the 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.

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## **Plant Yates**

Prepared by:



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

September 2021

		Chattahoochee River <sup>2</sup>						
Parameter <sup>3</sup>	Units	9/23/2021	9/23/2021	9/28/2021	9/28/2021			
		Upstream	Downstream	Upstream	Downstream			
pН	SU	6.9	7.0	6.8	7.0			
TSS	mg/L	45.0	26.0	9.0	5.5			
O&G	mg/L	$ND^4$	ND	ND	ND			
TRC	mg/L	***	***	***	***			
Turbidity	NTU	44.0	43.0	10.2	10.1			
TDS	mg/L	59	65	78	79			
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	1.7	1.9	ND	ND			
Mercury	ng/L	4.2	3.4	1.4	1.2			
Nickel	μg/L	ND	ND	ND	ND			
Selenium	μg/L	ND	ND	ND	ND			
Zinc	μg/L	ND	10.8	ND	ND			
Ammonia	mg/L	ND	ND	ND	ND			
TKN	mg/L	ND	ND	ND	0.63			
Nitrate-Nitrite	mg/L	1.00	1.00	2.20	2.20			
Organic Nitrogen	mg/L	ND	ND	ND	0.61			
Phosphorus	mg/L	0.08	0.07	ND	ND			
Ortho-phosphorus	mg/L	ND	ND	ND	ND			
Hardness	mg/L	22	23	34	34			

- 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;  $\mu g/L = micrograms$  per liter = parts per billion; ng/L = micrograms per liter = parts per trillion; SU = Standard Units; MGD = Million Gallons Day