



# Plant McManus

Prepared by: TETRA TECH

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

May 2019

Parameter	Units	Effluent Concentration		Permit Limits	
		Minimum	Maximum	Daily Avg	Daily Max
Flow	MGD	0.0	0.0	***	***
pH	SU			6.0 - 9.0	
Total Suspended Solids	mg/L			30.0	100.0
Oil and Grease	mg/L			15.0	20.0


Parameter	Units	Measured Effluent				
		Week 1	Week 2	Week 3	Week 4	Week 5
		No Discharge	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	Effluent Concentration <sup>3</sup>					Calculated River Value <sup>3</sup>					Water Quality Standard <sup>4</sup>	
		Week 1	Week 2	Week 3	Week 4	Week 5	Week 1	Week 2	Week 3	Week 4	Week 5		
		No Discharge	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge		
Arsenic	µg/L												69
Cadmium	µg/L												40
Chromium <sup>5</sup>	µg/L												1100
Copper	µg/L												4.8
Lead	µg/L												210
Nickel	µg/L												74
Selenium	µg/L												290
Zinc	µg/L												90
Mercury	ng/L												1800

1 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.  
 2 ND = Not Detected.  
 3 Calculated River Value shows what the total effluent concentration looks like 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, which are also in the dissolved form. Consistent with Georgia EPD, non-detectable effluent concentrations are not translated into calculated river values.  
 4 Numeric Water Quality Criteria is the maximum concentration of a parameter established for the receiving waterbody that will be protective of the designated use per Georgia EPD's rules and regulations. Calculated River Values less than these criteria are protective of the waterbody.  
 5 Numeric water quality criterion shown is for Hexavalent Chromium.  
 \*\*\* = 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



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

May 2019

Parameter <sup>3</sup>	Units	Burnett Creek <sup>2</sup>			
		Sample 1		Sample 2	
		No Discharge	No Discharge	No Discharge	No Discharge
		Upstream	Downstream	Upstream	Downstream
pH	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	ng/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 Burnett Creek measured 1000ft upstream and 1000ft downstream of the Final Outfall 02.  
 3 Metals results are total recoverable.  
 4 ND = Non-detect  
 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