



Monthly Dewatering Results¹

December 2020

| | 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 | 0.21 | 0.23 | *** | *** | *** | |
| pН | SU | 7.0 | *** | 7.8 | 6.0 | *** | 9.0 | |
| Total Suspended Solids | mg/L | ND ³ | ND | ND | ND | 30.0 | 100.0 | |
| Oil and Grease | mg/L | ND | ND | ND | ND | 15.0 | 20.0 | |

| Parameter | Units | | Daily | | | | |
|--------------------------|--------|-----------|--------------|--------------|--------------|--------------|---------|
| Faranielei | Ullits | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Average |
| | | 12/2/2020 | No discharge | No discharge | No discharge | No discharge | |
| Turbidity | NTU | 3.0 | | | | | 3.0 |
| Total Dissolved Solids | mg/L | 594 | | | | | 594 |
| Ammonia | mg/L | ND | | | | | ND |
| Total Kjeldahl Nitrogen | mg/L | 0.93 | | | | | 0.93 |
| Nitrate-Nitrite | mg/L | ND | | | | | ND |
| Organic Nitrogen | mg/L | 0.89 | | | | | 0.89 |
| Phosphorus | mg/L | ND | | | | | ND |
| Ortho-Phosphorus | mg/L | ND | | | | | ND |
| Biological Oxygen Demand | mg/L | ND | | | | | ND |
| Hardness | mg/L | 398 | | | | | 398 |

| Parameter Units | Unito | Effluent Concentration ⁴ | | | | | Calculated Receiving Water Concentration⁴ | | | | | Water Quality Criteria⁵ | | |
|-----------------------|--------|-------------------------------------|--------------|--------------|--------------|--------------|---|--------------|--------------|--------------|--------------|-------------------------|--------------------|----------------------|
| | UIIILS | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Average | Acute ⁶ | Chronic ⁶ |
| | | 12/2/2020 | No discharge | No discharge | No discharge | No discharge | 12/2/2020 | No discharge | No discharge | No discharge | No discharge | | | |
| Arsenic | μg/L | ND | | | | | *** | | | | | *** | 340 | 150 |
| Cadmium | μg/L | ND | | | | | *** | | | | | *** | 1 | 0.43 |
| Chromium ⁷ | μg/L | ND | | | | | *** | | | | | *** | 16 | 11 |
| Copper | μg/L | ND | | | | | *** | | | | | *** | 7 | 5 |
| Lead | μg/L | ND | | | | | *** | | | | | *** | 30 | 1.2 |
| Nickel | μg/L | ND | | | | | *** | | | | | *** | 260 | 29 |
| Selenium ⁸ | μg/L | 11.4 | | | | | 0.0161 | | | | | 0.0161 | *** | 5 |
| Zinc | μg/L | ND | | | | | *** | | | | | *** | 65 | 65 |
| Mercury | ng/L | 1.64 | | | | | 0.0023 | | | | | 0.0023 | 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).

 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 criterion. Which are also in the dissolved form. Consistent with Georgia EPD, non-detectable effluent concentrations are not translated into Calculated Receiving Water Concentrations.

 Numeric Water Quality Criterio is the maximum concentration of a parameter (calculated at a default hardness of 50 mg/L as calcium carbonate) established for 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 waterbody.

 Acute (short-term) water quality criterion to be compared with the weekly calculated receiving water concentration.

 Numeric water quality criterion shown is for Hexavalent Chromium.

 The numeric water quality criterion shown is for Hexavalent Chromium.
- and regulations. Calculated Receiving Water Concentrations less than these criteria are protective of the waterbody.

 6 Acute (short-term) water quality criterion to be compared with the weekly calculated receiving water concentration; Chronic (long-term) water quality criterion to be compared with the av
 7 Numeric water quality criterion shown is for Hexavatent Chromium.
 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 = miligrams 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

December 2020

| | | Etowah River ² | | | | | | |
|------------------------|-------|---------------------------|------------|------------|------------|--|--|--|
| Parameter ³ | Units | 12/14/2020 | 12/14/2020 | 12/18/2020 | 12/18/2020 | | | |
| | | Upstream | Downstream | Upstream | Downstream | | | |
| рН | SU | 6.6 | 6.6 | 7.1 | 7.5 | | | |
| TSS | mg/L | 16.0 | 15.0 | 7.0 | 7.5 | | | |
| O&G | mg/L | ND ⁴ | 10.0 | ND | ND | | | |
| Turbidity | NTU | 23.9 | 19.4 | 5.0 | 5.3 | | | |
| TDS | mg/L | 71 | 73 | 52 | 67 | | | |
| BOD | mg/L | ND | ND | 4.0 | 7.5 | | | |
| 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 | 2.6 | 2.2 | 1.3 | 1.5 | | | |
| 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 | 0.14 | ND | ND | | | |
| TKN | mg/L | ND | 0.57 | ND | ND | | | |
| Nitrate-Nitrite | mg/L | 0.50 | 0.52 | 0.40 | 0.39 | | | |
| Organic Nitrogen | mg/L | ND | ND | ND | ND | | | |
| Phosphorus | mg/L | 0.06 | ND | ND | ND | | | |
| Ortho-phosphorus | mg/L | ND | 0.03 | ND | ND | | | |
| Hardness | mg/L | 37 | 38 | 20 | 19 | | | |

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