Georgia Power

Plant McIntosh

Prepared by:

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Monthly Dewatering Results¹

November 2020

| | | Efflu | ent Concent | ration | Permit Limits | | | |
|------------------------|-------|------------------------|------------------------|------------------------|---------------|-----------|-----------|--|
| Parameter | Units | Daily Min ³ | Daily Avg ³ | Daily Max ³ | Daily Min | Daily Avg | Daily Max | |
| Flow | MGD | 0.00 | 0.22 | 0.28 | *** | *** | *** | |
| рН | SU | 6.9 | *** | 7.8 | 6.0 | *** | 9.0 | |
| Total Suspended Solids | mg/L | ND ² | ND | ND | *** | 30.0 | 100.0 | |
| Oil and Grease | mg/L | ND | ND | ND | *** | 15.0 | 20.0 | |

| Parameter | Units | | Daily | | | | |
|--------------------------|-------|-----------|------------|------------|--------------|--------------|---------|
| Falameter | | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Average |
| | | 11/4/2020 | 11/11/2020 | 11/18/2020 | No discharge | No discharge | |
| Turbidity | NTU | 1.5 | 1.5 | 0.9 | | | 1.3 |
| Total Dissolved Solids | mg/L | 389 | 385 | 401 | | | 392 |
| Ammonia | mg/L | ND | ND | ND | | | ND |
| Total Kjeldahl Nitrogen | mg/L | ND | ND | ND | | | ND |
| Nitrate-Nitrite | mg/L | ND | ND | ND | | | ND |
| Organic Nitrogen | mg/L | ND | ND | ND | | | ND |
| Phosphorus | mg/L | ND | ND | ND | | | ND |
| Ortho-Phosphorus | mg/L | ND | ND | ND | | | ND |
| Biological Oxygen Demand | mg/L | ND | ND | 5.7 | | | 1.9 |
| Hardness | mg/L | 136 | 118 | 134 | | | 129 |

| | | Effluent Concentration ⁴ | | | | | Calculated Receiving Water Concentration ⁴ | | | | | Water Quality Criteria⁵ | | |
|-----------------------|-------|-------------------------------------|------------|------------|--------------|--------------|---|------------|------------|--------------|--------------|-------------------------|--------------------|----------------------|
| Parameter | Units | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Average | | Chronic ⁶ |
| | | 11/4/2020 | 11/11/2020 | 11/18/2020 | No discharge | No discharge | 11/4/2020 | 11/11/2020 | 11/18/2020 | No discharge | No discharge | | Acute ⁶ | |
| Arsenic | μg/L | ND | ND | ND | | | *** | *** | *** | | | *** | 340 | 150 |
| Cadmium | μg/L | ND | ND | ND | | | *** | *** | *** | | | *** | 1 | 0.43 |
| Chromium ⁷ | 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 |
| Selenium ⁸ | μg/L | ND | 2.6 | ND | | | *** | 0.0003 | *** | | | 0.0001 | *** | 5 |
| Zinc | μg/L | ND | ND | ND | | | *** | *** | *** | | | *** | 65 | 65 |
| Mercury | ng/L | ND | 1.3 | 0.6 | | | *** | 0.0001 | 0.0001 | | | 0.0001 | 1400 | 12 |

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Teta 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.
ND = Not Detected (below the lab's reporting limit).
Daily Min and Daily Max are the lowest and highest values for any day in the month. Daily Ag is the arithmetic average of all daily values during the entire month.
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 criteria, which are also in the dissolved form. Concentrations are not translated in the Calculated Receiving Water Concentrations.
Numeric Water Quality Criteria is the maximum concentration of a parameter (calculated at a default hardness of 50 mg/L as calculated Receiving Water Concentrations.
Acte (short-term) water quality criterion to be compared with the weekly calculated receiving water concentrations.
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Numeric Water Quality criterion shown is for Hazvalent Chronium.
The numeric water quality criterion shown is the chronic (long-term) water quality criterion to be compared with the average calculated receiving water concentrations.
The numeric water quality criterion shown is the chronic (long-term) water quality criterion to an acute (short-term) water quality criterion.
The numeric water quality criterion shown is the chronic (long-term) water quality criterion to a cost ser million: uol. = microarmas per liter = parts per tillion: SU = Standard Units: MGD = Million Salors Dav

mg/L = milligrams per liter = parts per million; µg/L = micrograms per liter = parts per bilion; ng/L = nanograms per liter = parts per trillion; SU = Standard Units; MGD = Million Gallons Day



Plant McIntosh

Prepared by:

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TETRA TECH

Monthly Instream Results¹

November 2020

| | | Savannah River ² | | | | | | | |
|------------------------|-------|-----------------------------|------------|------------|------------|--|--|--|--|
| Parameter ³ | Units | 11/4/2020 | 11/4/2020 | 11/11/2020 | 11/11/2020 | | | | |
| | | Upstream | Downstream | Upstream | Downstream | | | | |
| pН | SU | 7.1 | 7.1 | 6.8 | 6.9 | | | | |
| TSS | mg/L | 16.0 | 17.5 | 9.5 | 6.5 | | | | |
| O&G | mg/L | ND^4 | ND | ND | ND | | | | |
| Turbidity | NTU | 14.7 | 15.6 | 10.6 | 10.0 | | | | |
| TDS | mg/L | 48 | 41 | 48 | 63 | | | | |
| 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 | 1.6 | 1.8 | 1.9 | 2.9 | | | | |
| 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 | ND | ND | | | | |
| Nitrate-Nitrite | mg/L | 0.21 | 0.21 | 0.15 | 0.15 | | | | |
| Organic Nitrogen | mg/L | ND | ND | ND | ND | | | | |
| Phosphorus | mg/L | ND | ND | ND | 0.06 | | | | |
| Ortho-phosphorus | mg/L | 0.03 | 0.03 | ND | ND | | | | |
| Hardness | mg/L | 15 | 15 | 14 | 14 | | | | |

1 Tetra Tech verifies the correct laboratory analysis methods were used.

2 Savannah River measured 1,000ft upstream and 1,000ft downstream of Outfall 01.

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 = nanograms per liter = parts per trillion; SU = Standard Units; MGD = Million Gallons Day