Georgia Power

Plant Branch

Prepared by:

ŦŁ TETRA TECH

Monthly Dewatering Results¹

February 2024

| | 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 | 1.13 | 1.39 | *** | *** | *** | |
| рН | SU | 6.7 | *** | 8.4 | 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 | |

| Parameter | Units | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Daily |
|--------------------------------------|-------|-----------------------|----------|-----------|-----------|-----------|---------|
| | | Sampled in January | 2/7/2024 | 2/14/2024 | 2/21/2024 | 2/28/2024 | Average |
| Turbidity ⁴ | NTU | | 0.2 | 0.3 | 0.1 | 0.1 | 0.2 |
| Total Residual Chlorine ⁴ | mg/L | | ND | ND | ND | ND | ND |
| Total Dissolved Solids | mg/L | | 33 | 78 | ND | ND | 28 |
| Ammonia | mg/L | | ND | ND | ND | ND | ND |
| Total Kjeldahl Nitrogen | mg/L | | ND | ND | ND | ND | ND |
| Nitrate-Nitrite | mg/L | | ND | ND | ND | ND | ND |
| Organic Nitrogen | mg/L | | ND | ND | ND | ND | ND |
| Phosphorus | mg/L | | ND | ND | 0.07 | ND | 0.02 |
| Ortho-Phosphorus | mg/L | | ND | ND | ND | ND | ND |
| Biological Oxygen Demand | mg/L | | ND | ND | ND | ND | ND |
| Hardness | mg/L | | 6 | 3 | 3 | 4 | 4 |

| 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 | | | |
| | | Sampled in January | 2/7/2024 | 2/14/2024 | 2/21/2024 | 2/28/2024 | Sampled in January | 2/7/2024 | 2/14/2024 | 2/21/2024 | 2/28/2024 | Average | Acute ⁷ | Chronic ⁷ |
| Antimony ⁹ | μg/L | | ND | ND | ND | ND | | *** | *** | *** | *** | *** | *** | 640 |
| Arsenic | μg/L | | ND | ND | ND | ND | | *** | *** | *** | *** | *** | 340 | 150 |
| Cadmium | μg/L | | ND | ND | ND | ND | | *** | *** | *** | *** | *** | 0.94 | 0.43 |
| Chromium ⁸ | μg/L | | ND | ND | ND | ND | | *** | *** | *** | *** | *** | 16 | 11 |
| Copper | μg/L | | ND | ND | ND | ND | | *** | *** | *** | *** | *** | 7 | 5 |
| Lead | μg/L | | ND | ND | ND | ND | | *** | *** | *** | *** | *** | 30 | 1.2 |
| Nickel | μg/L | | ND | ND | ND | ND | | *** | *** | *** | *** | *** | 260 | 29 |
| Selenium9 | μg/L | | ND | ND | ND | ND | | *** | *** | *** | *** | *** | *** | 5 |
| Thallium ⁹ | μg/L | | ND | ND | ND | ND | | *** | *** | *** | *** | *** | *** | 0.47 |
| Zinc | μg/L | | ND | ND | ND | ND | | *** | *** | *** | *** | *** | 65 | 65 |
| Mercury | ng/L | | ND | ND | 0.8 | ND | | *** | *** | 0.1054 | *** | 0.0264 | 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 Max are the lowest and highest values for any day in the month. Daily Avg is the antithmetic average of all daily values during the entire month.
ND = Not Detected (below the lab's reporting limit).
Turbidity and total residual choire are monitored continuously. The value reported is the weekly maximum and the daily average is the average of the weekly maximum values reported.
Calculated Reaving Water Concentration shows the efflicient 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. Consistent with Georgia EPD, non-detectable effluent concentrations are not transisted into Calculated Reaving Water Concentrations.
Numeric Water Quality Criteria is the maximum concentration of a parameter (calculated as a disclased as a disclased with Water Concentration is the statisticated in a disclased of a disclased as a disclased as a disclased with average of 50 mg/L as calculated Reaving Water Concentrations.
Numeric Water Quality Criteria is the maximum concentration of a parameter (calculated as a disclased as a disclased as a disclased at a disclased as a disclased at a disclased in a disclased as a disclased as a disclased as a disclased as a disclased at a disclase at a disclased as a disclased as a disclased at a disclase disclased at a disclased at a disclase disclased at a disclased at a disclased atranset disclased at a disclased at a



Plant Branch

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Monthly Instream Results¹

February 2024

| | | Lake Sinclair ² | | | | | | | |
|------------------------|-------|----------------------------|------------|-----------|------------|--|--|--|--|
| Parameter ³ | Units | 2/7/2024 | 2/7/2024 | 2/14/2024 | 2/14/2024 | | | | |
| | | Upstream | Downstream | Upstream | Downstream | | | | |
| рН | SU | 6.9 | 7.3 | 7.0 | 7.1 | | | | |
| TSS | mg/L | 10.6 | 8.4 | 55.7 | 14.0 | | | | |
| O&G | mg/L | ND^4 | ND | ND | ND | | | | |
| TRC | mg/L | *** | *** | *** | *** | | | | |
| Turbidity | NTU | 63.1 | 24.5 | 159.0 | 40.7 | | | | |
| TDS | mg/L | 90 | 67 | 109 | 72 | | | | |
| BOD | mg/L | ND | ND | ND | ND | | | | |
| Antimony | μg/L | ND | ND | ND | ND | | | | |
| Arsenic | μg/L | ND | ND | ND | ND | | | | |
| Cadmium | μg/L | ND | ND | ND | ND | | | | |
| Chromium | μg/L | ND | ND | 5.6 | ND | | | | |
| Copper | μg/L | ND | ND | ND | ND | | | | |
| Lead | μg/L | 1.3 | ND | 2.9 | ND | | | | |
| Mercury | ng/L | 4.2 | 2.0 | 11.6 | 4.3 | | | | |
| Nickel | μg/L | ND | ND | ND | ND | | | | |
| Selenium | μg/L | ND | ND | ND | ND | | | | |
| Thallium | μg/L | ND | ND | ND | ND | | | | |
| Zinc | μg/L | ND | ND | 13.2 | ND | | | | |
| Ammonia | mg/L | ND | ND | ND | ND | | | | |
| TKN | mg/L | 0.57 | ND | 1.10 | ND | | | | |
| Nitrate-Nitrite | mg/L | 0.26 | 0.23 | 0.19 | 0.18 | | | | |
| Organic Nitrogen | mg/L | ND | ND | 1.10 | ND | | | | |
| Phosphorus | mg/L | 0.07 | ND | 0.12 | ND | | | | |
| Ortho-phosphorus | mg/L | ND | ND | ND | ND | | | | |
| Hardness | mg/L | 18 | 21 | 17 | 22 | | | | |

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

2 Lake Sinclair measured upstream near lat 33.196636 and long -83.295389, and downstream near lat 33.180392 and long -83.322964.

3 Metals results are total recoverable.

4 ND = Non-detect.

*** = Not Applicable.

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