

Location: Sutton Plant on Cape Fear River

Date: 9/25/2018, DWR Total Metals Samples

| Sample Fraction | Parameter | Units | Fresh WQS | B9020000 | SUTTON_LK_BREACH | SUTTON_BREACH | Salt WQS | B9050000 |
|-----------------|-----------------------|-------|-----------|----------|------------------|---------------|----------|----------|
| Total | Hardness (calculated) | mg/L | NA | 12 | 12 | 12 | | NA |
| Total | Silver (Ag) | µg/L | NA | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U |
| Total | Aluminum (Al) | µg/L | NA | 1100 | 860 | 1200 | NA | 1400 |
| Total | Antimony (Sb) | µg/L | NA | 10 U | 10 U | 10 U | NA | 10 U |
| Total | Arsenic (As) | µg/L | 10 | 2.0 U | 2.1 | 2.0 U | 10 | 2.0 U |
| Total | Boron (B) | µg/L | NA | 50 U | 50 U | 50 U | NA | 50 U |
| Total | Barium (Ba) | µg/L | NA | 23 | 20 | 24 | NA | 26 |
| Total | Beryllium (Be) | µg/L | NA | 5.0 U | 5.0 U | 5.0 U | NA | 5.0 U |
| Total | Cadmium (Cd) | µg/L | NA | 0.50 U | 0.50 U | 0.50 U | NA | 0.50 U |
| Total | Cobalt (Co) | µg/L | NA | 50 U | 50 U | 50 U | NA | 50 U |
| Total | Chromium (Cr) | µg/L | NA | 5.0 U | 5.0 U | 5.0 U | NA | 5.0 U |
| Total | Copper (Cu) | µg/L | NA | 2.8 | 3.1 | 2.9 | NA | 3.2 |
| Total | Iron (Fe) | µg/L | NA | 1400 | 1200 | 1500 | NA | 1700 |
| Total | Potassium (K) | mg/L | NA | 3.5 | 3.9 | 3.6 | NA | 3.5 |
| Total | Manganese (Mn) | µg/L | NA | 87 | 100 | 100 | NA | 110 |
| Total | Molybdenum (Mo) | µg/L | NA | 10 U | 10 U | 10 U | NA | 10 U |
| Total | Sodium (Na) | mg/L | NA | 2.3 | 2.1 | 2.4 | NA | 2.5 |
| Total | Nickel (Ni) | µg/L | NA | 2.0 U | 2.0 U | 2.0 U | NA | 2.0 U |
| Total | Lead (Pb) | µg/L | NA | 2.0 U | 2.0 U | 2.0 U | NA | 2.0 U |
| Total | Selenium (Se) | µg/L | 5 | 1.0 U | 1.0 U | 1.0 U | 71 | 1.0 U |
| Total | Strontium (Sr) | µg/L | NA | 17 | 19 | 18 | NA | 19 |
| Total | Thallium (Tl) | µg/L | NA | 2.0 U | 2.0 U | 2.0 U | NA | 2.0 U |
| Total | Titanium (Ti) | µg/L | NA | 40 | 26 | 43 | NA | 51 |
| Total | Vanadium (V) | µg/L | NA | 10 U | 10 U | 10 U | NA | 10 U |
| Total | Zinc (Zn) | µg/L | NA | 10 U | 10 U | 10 U | NA | 10 U |

- Results below DWR laboratory detection limits (non-detects) are shown with the analytical practical quantitation limit (PQL) and a U qualifier.
- Water Quality Standards (WQS) provided for screening purposes, as some WQS require multiple metals sampling events to fully evaluate compliance.
- B9050000 is classified as salt water (SC). Other sampling locations are classified as fresh water.

Location: Sutton Plant on Cape Fear River

Date: 9/25/2018, DWR Dissolved Metals Samples

| Sample Fraction | Parameter | Units | Fresh Acute WQS | Fresh Chronic WQS | B9020000 Rep-1 | B9020000 Rep-2 | SUTTON_LK_BREACH Rep-1 | SUTTON_LK_BREACH Rep-2 | SUTTON_BREACH Rep-1 | SUTTON_BREACH Rep-2 | Salt Acute WQS | Salt Chronic WQS | B9050000 Rep-1 | B9050000 Rep-2 |
|-----------------|-----------------|-------|-----------------|-------------------|----------------|----------------|------------------------|------------------------|---------------------|---------------------|----------------|------------------|----------------|----------------|
| Dissolved | Silver (Ag) | µg/L | 0.08 | 0.06 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.9 | 0.1 | 1.0 U | 1.0 U |
| Dissolved | Aluminum (Al) | µg/L | NA | NA | 350 | 600 | 320 | 460 | 650 | 670 | NA | NA | 640 | 720 |
| Dissolved | Antimony (Sb) | µg/L | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | NA | NA | 10 U | 10 U |
| Dissolved | Arsenic (As) | µg/L | 340 | 150 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 69 | 36 | 2.0 U | 2.0 U |
| Dissolved | Boron (B) | µg/L | NA | NA | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | NA | NA | 50 U | 50 U |
| Dissolved | Barium (Ba) | µg/L | NA | NA | 19 | 20 | 17 | 18 | 22 | 22 | NA | NA | 22 | 22 |
| Dissolved | Beryllium (Be) | µg/L | 65 | 6.5 | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | NA | NA | 5.0 U | 5.0 U |
| Dissolved | Cadmium (Cd) | µg/L | 0.43 | 0.09 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 40 | 8.8 | 0.50 U | 0.50 U |
| Dissolved | Cobalt (Co) | µg/L | NA | NA | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | NA | NA | 50 U | 50 U |
| Dissolved | Chromium (Cr) | µg/L | 16 | 11 | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 1100 | 50 | 5.0 U | 5.0 U |
| Dissolved | Copper (Cu) | µg/L | 1.8 | 1.5 | 2.5 | 2.3 | 2.4 | 2.7 | 2.4 | 2.5 | 4.8 | 3.1 | 2.7 | 2.5 |
| Dissolved | Iron (Fe) | µg/L | NA | NA | 640 | 840 | 570 | 680 | 960 | 1000 | NA | NA | 1000 | 1000 |
| Dissolved | Potassium (K) | mg/L | NA | NA | 3.3 | 3.4 | 3.8 | 3.8 | 3.3 | 3.3 | NA | NA | 3.4 | 3.4 |
| Dissolved | Manganese (Mn) | µg/L | NA | NA | 77 | 81 | 92 | 94 | 94 | 93 | NA | NA | 95 | 95 |
| Dissolved | Molybdenum (Mo) | µg/L | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | NA | NA | 10 U | 10 U |
| Dissolved | Sodium (Na) | mg/L | NA | NA | 2.2 | 2.2 | 2.0 | 2.1 | 2.4 | 2.4 | NA | NA | 2.4 | 2.4 |
| Dissolved | Nickel (Ni) | µg/L | 78 | 8.7 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 74 | 8.2 | 2.0 U | 2.0 U |
| Dissolved | Lead (Pb) | µg/L | 6.0 | 0.2 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 210 | 8.1 | 2.0 U | 2.0 U |
| Dissolved | Selenium (Se) | µg/L | NA | NA | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | NA | 1.0 U | 1.0 U |
| Dissolved | Strontium (Sr) | µg/L | NA | NA | 17 | 16 | 19 | 18 | 17 | 17 | NA | NA | 18 | 18 |
| Dissolved | Thallium (Tl) | µg/L | NA | NA | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | NA | NA | 2.0 U | 2.0 U |
| Dissolved | Titanium (Ti) | µg/L | NA | NA | 10 U | 15 | 10 U | 10 U | 19 | 20 | NA | NA | 18 | 21 |
| Dissolved | Vanadium (V) | µg/L | NA | NA | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | NA | NA | 10 U | 10 U |
| Dissolved | Zinc (Zn) | µg/L | 19 | 20 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 90 | 81 | 10 U | 10 U |

- Results below DWR laboratory detection limits (non-detects) are shown with the analytical practical quantitation limit (PQL) and a U qualifier.
- Water Quality Standards (WQS) provided for screening purposes, as some WQS require multiple metals sampling events to fully evaluate compliance.
- Chromium results represent dissolved total chromium. WQS shown are for hexavalent chromium VI. Future monitoring events will include analysis of both dissolved total Cr and Cr VI.