

Location: Sutton Plant on Cape Fear River

Date: 9/26/2018, DWR Total Metals Samples

Sample Fraction	Parameter	Units	Fresh WQS	SUTTON_LK_BREACH	Salt WQS	B9050000
Total	Hardness (calculated)	mg/L	NA	12		NA
Total	Silver (Ag)	µg/L	NA	1.0 U	NA	1.0 U
Total	Aluminum (Al)	µg/L	NA	680	NA	730
Total	Antimony (Sb)	µg/L	NA	10 U	NA	10 U
Total	Arsenic (As)	µg/L	10	2.0	10	2.0 U
Total	Boron (B)	µg/L	NA	50 U	NA	50 U
Total	Barium (Ba)	µg/L	NA	19	NA	22
Total	Beryllium (Be)	µg/L	NA	5.0 U	NA	5.0 U
Total	Cadmium (Cd)	µg/L	NA	0.50 U	NA	0.50 U
Total	Cobalt (Co)	µg/L	NA	50 U	NA	50 U
Total	Chromium (Cr)	µg/L	NA	5.0 U	NA	5.0 U
Total	Copper (Cu)	µg/L	NA	2.7	NA	2.2
Total	Iron (Fe)	µg/L	NA	1100	NA	1500
Total	Potassium (K)	mg/L	NA	3.9	NA	2.7
Total	Manganese (Mn)	µg/L	NA	100	NA	180
Total	Molybdenum (Mo)	µg/L	NA	10 U	NA	10 U
Total	Sodium (Na)	mg/L	NA	2.1	NA	2.8
Total	Nickel (Ni)	µg/L	NA	2.0 U	NA	2.0 U
Total	Lead (Pb)	µg/L	NA	2.0 U	NA	2.0 U
Total	Selenium (Se)	µg/L	5	1.0 U	71	1.0 U
Total	Strontium (Sr)	µg/L	NA	18	NA	22
Total	Thallium (Tl)	µg/L	NA	2.0 U	NA	2.0 U
Total	Titanium (Ti)	µg/L	NA	17	NA	20
Total	Vanadium (V)	µg/L	NA	10 U	NA	10 U
Total	Zinc (Zn)	µg/L	NA	10 U	NA	12

- 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: 9/26/2018, DWR Dissolved Metals Samples

Sample Fraction	Parameter	Units	Fresh Acute WQS	Fresh Chronic WQS	SUTTON_LK_BREACH Rep-1	SUTTON_LK_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	1.9	0.1	1.0 U	1.0 U
Dissolved	Aluminum (Al)	µg/L	NA	NA	340	380	NA	NA	380	470
Dissolved	Antimony (Sb)	µg/L	NA	NA	10 U	10 U	NA	NA	10 U	10 U
Dissolved	Arsenic (As)	µg/L	340	150	2.5	2.0 U	69	36	2.0 U	2.0 U
Dissolved	Boron (B)	µg/L	NA	NA	50 U	50 U	NA	NA	50 U	50 U
Dissolved	Barium (Ba)	µg/L	NA	NA	17	17	NA	NA	20	20
Dissolved	Beryllium (Be)	µg/L	65	6.5	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	40	8.8	0.50 U	0.50 U
Dissolved	Cobalt (Co)	µg/L	NA	NA	50 U	50 U	NA	NA	50 U	50 U
Dissolved	Chromium (Cr)	µg/L	16	11	5.0 U	5.0 U	1100	50	5.0 U	5.0 U
Dissolved	Copper (Cu)	µg/L	1.8	1.5	2.6	2.3	4.8	3.1	2.0 U	2.0 U
Dissolved	Iron (Fe)	µg/L	NA	NA	570	640	NA	NA	1200	1200
Dissolved	Potassium (K)	mg/L	NA	NA	3.8	3.8	NA	NA	2.6	2.7
Dissolved	Manganese (Mn)	µg/L	NA	NA	100	97	NA	NA	170	170
Dissolved	Molybdenum (Mo)	µg/L	NA	NA	10 U	10 U	NA	NA	10 U	10 U
Dissolved	Sodium (Na)	mg/L	NA	NA	2.0	2.0	NA	NA	2.8	2.7
Dissolved	Nickel (Ni)	µg/L	78	8.7	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	210	8.1	2.0 U	2.0 U
Dissolved	Selenium (Se)	µg/L	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
Dissolved	Strontium (Sr)	µg/L	NA	NA	18	17	NA	NA	22	21
Dissolved	Thallium (Tl)	µg/L	NA	NA	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U
Dissolved	Titanium (Ti)	µg/L	NA	NA	10 U	10 U	NA	NA	10 U	10 U
Dissolved	Vanadium (V)	µg/L	NA	NA	10 U	10 U	NA	NA	10 U	10 U
Dissolved	Zinc (Zn)	µg/L	19	20	10 U	10 U	90	81	13	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.