

Location: Sutton Plant on Cape Fear River, at dam breach

Date: 9/22/2018, DWR Total Metals Samples

Sample Fraction	Parameter	Units	WQS	SUTTON_BREACH
Total	Hardness (calculated)	mg/L	100	11
Total	Silver (Ag)	µg/L	NA	1.0 U
Total	Aluminum (Al)	µg/L	NA	1100
Total	Arsenic (As)	µg/L	10	2.0 U
Total	Boron (B)	µg/L	NA	50 U
Total	Beryllium (Be)	µg/L	NA	5.0 U
Total	Cadmium (Cd)	µg/L	NA	0.50 U
Total	Chromium (Cr)	µg/L	NA	5.0 U
Total	Copper (Cu)	µg/L	NA	3.2
Total	Iron (Fe)	µg/L	NA	1500
Total	Potassium (K)	mg/L	NA	3.4
Total	Manganese (Mn)	µg/L	NA	100
Total	Sodium (Na)	mg/L	NA	2.1
Total	Nickel (Ni)	µg/L	25	2.0 U
Total	Lead (Pb)	µg/L	NA	2.0 U
Total	Selenium (Se)	µg/L	5	1.0 U
Total	Strontium (Sr)	µg/L	NA	18
Total	Zinc (Zn)	µg/L	NA	10 U

Notes:

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

Location: Sutton Plant on Cape Fear River, at dam breach

Date: 9/22/2018, DWR Dissolved Metals Samples

Sample Fraction	Parameter	Units	Acute WQS	Chronic WQS	Rep-1	Rep-2
Dissolved	Silver (Ag)	µg/L	0.07	0.06	1.0 U	1.0 U
Dissolved	Aluminum (Al)	µg/L	NA	NA	480	580
Dissolved	Arsenic (As)	µg/L	340	150	2.0 U	2.0 U
Dissolved	Boron (B)	µg/L	NA	NA	50 U	50 U
Dissolved	Beryllium (Be)	µg/L	65	6.5	5.0 U	5.0 U
Dissolved	Cadmium (Cd)	µg/L	0.40	0.08	0.50 U	0.50 U
Dissolved	Chromium (Cr)	µg/L	16	11	5.0 U	5.0 U
Dissolved	Copper (Cu)	µg/L	1.7	1.4	2.5	2.6
Dissolved	Iron (Fe)	µg/L	NA	NA	740	750
Dissolved	Potassium (K)	mg/L	NA	NA	3.3	3.8
Dissolved	Manganese (Mn)	µg/L	NA	NA	95	82
Dissolved	Sodium (Na)	mg/L	NA	NA	2.1	2.1
Dissolved	Nickel (Ni)	µg/L	NA	NA	2.0 U	2.0 U
Dissolved	Lead (Pb)	µg/L	5.5	0.2	2.0 U	2.0 U
Dissolved	Selenium (Se)	µg/L	NA	NA	1.0 U	1.0 U
Dissolved	Strontium (Sr)	µg/L	NA	NA	15	16
Dissolved	Zinc (Zn)	µg/L	18	18	10 U	10 U

Notes:

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