

**Location:** Sutton Plant on Cape Fear River

**Date:** 10/4/2018, DWR Total Metals Samples

Sample Fraction	Parameter	Units	Freshwater WQS	SUTTON_UP	SUTTON_LK_BREACH	SUTTON_DOWN
Total	Hardness (calculated)	mg/L	NA	23	15	24
Total	Silver (Ag)	µg/L	NA	1.0 U	1.0 U	1.0 U
Total	Aluminum (Al)	µg/L	NA	520	270	510
Total	Antimony (Sb)	µg/L	NA	10 U	10 U	10 U
Total	Arsenic (As)	µg/L	10	2.0 U	6.0	2.0 U
Total	Boron (B)	µg/L	NA	50 U	50 U	50 U
Total	Barium (Ba)	µg/L	NA	34	20	35
Total	Beryllium (Be)	µg/L	NA	5.0 U	5.0 U	5.0 U
Total	Cadmium (Cd)	µg/L	NA	0.50 U	0.50 U	0.50 U
Total	Cobalt (Co)	µg/L	NA	50 U	50 U	50 U
Total	Chromium (Cr)	µg/L	NA	5.0 U	5.0 U	5.0 U
Total	Copper (Cu)	µg/L	NA	2.0 U	2.4	2.0 U
Total	Iron (Fe)	µg/L	NA	1700	900	1800
Total	Potassium (K)	mg/L	NA	4.3	4.2	4.6
Total	Manganese (Mn)	µg/L	NA	170	150	200
Total	Molybdenum (Mo)	µg/L	NA	10 U	10 U	10 U
Total	Sodium (Na)	mg/L	NA	7.2	2.3	7.9
Total	Nickel (Ni)	µg/L	NA	2.0 U	2.0 U	2.0 U
Total	Lead (Pb)	µg/L	NA	2.0 U	2.0 U	2.0 U
Total	Selenium (Se)	µg/L	5	1.0 U	1.0 U	1.0 U
Total	Strontium (Sr)	µg/L	NA	32	27	32
Total	Thallium (Tl)	µg/L	NA	2.0 U	2.0 U	2.0 U
Total	Titanium (Ti)	µg/L	NA	10 U	10 U	10 U
Total	Vanadium (V)	µg/L	NA	10 U	10 U	10 U
Total	Zinc (Zn)	µg/L	NA	10 U	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.
- All sampling locations are classified as fresh water.

**Location:** Sutton Plant on Cape Fear River

**Date:** 10/4/2018, DWR Dissolved Metals Samples

Sample Fraction	Parameter	Units	Acute WQS (hardness=15)	Acute WQS (hardness=23)	Acute WQS (hardness=24)	Chronic WQS (hardness=15)	Chronic WQS (hardness=23)	Chronic WQS (hardness=24)	SUTTON_UP Rep-1	SUTTON_UP Rep-2	SUTTON_LK_BREACH Rep-1	SUTTON_LK_BREACH Rep-2	SUTTON_DOWN Rep-1	SUTTON_DOWN Rep-2
<b>Total</b>	Hardness	mg/L	15	23	24	15	23	24						
<b>Dissolved</b>	Silver (Ag)	µg/L	0.12	0.26	0.28	0.06	0.06	0.06	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
<b>Dissolved</b>	Aluminum (Al)	µg/L	NA	NA	NA	NA	NA	NA	290	230	200	200	300	230
<b>Dissolved</b>	Antimony (Sb)	µg/L	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	10 U	10 U	10 U
<b>Dissolved</b>	Arsenic (As)	µg/L	340	340	340	150	150	150	2.0 U	2.0 U	5.6	4.9	2.0 U	2.0 U
<b>Dissolved</b>	Boron (B)	µg/L	NA	NA	NA	NA	NA	NA	50 U	50 U	50 U	50 U	50 U	50 U
<b>Dissolved</b>	Barium (Ba)	µg/L	NA	NA	NA	NA	NA	NA	31	30	18	18	31	30
<b>Dissolved</b>	Beryllium (Be)	µg/L	65	65	65	6.5	6.5	6.5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
<b>Dissolved</b>	Cadmium (Cd)	µg/L	0.52	0.76	0.79	0.10	0.14	0.14	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
<b>Dissolved</b>	Cobalt (Co)	µg/L	NA	NA	NA	NA	NA	NA	50 U	50 U	50 U	50 U	50 U	50 U
<b>Dissolved</b>	Chromium (Cr)	µg/L	16	16	16	11	11	11	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
<b>Dissolved</b>	Copper (Cu)	µg/L	2.2	3.4	3.5	1.8	2.6	2.6	2.0 U	2.0 U	2.1	2.0 U	2.0 U	2.0 U
<b>Dissolved</b>	Iron (Fe)	µg/L	NA	NA	NA	NA	NA	NA	1100	680	440	450	1100	720
<b>Dissolved</b>	Potassium (K)	mg/L	NA	NA	NA	NA	NA	NA	4.4	4.4	4.2	4.2	4.5	4.5
<b>Dissolved</b>	Manganese (Mn)	µg/L	NA	NA	NA	NA	NA	NA	150	140	130	130	160	150
<b>Dissolved</b>	Molybdenum (Mo)	µg/L	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	10 U	10 U	10 U
<b>Dissolved</b>	Sodium (Na)	mg/L	NA	NA	NA	NA	NA	NA	7.3	7.3	2.3	2.3	7.8	7.8
<b>Dissolved</b>	Nickel (Ni)	µg/L	94	135	140	10.4	15.0	15.5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
<b>Dissolved</b>	Lead (Pb)	µg/L	7.8	12.6	13.3	0.3	0.5	0.5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
<b>Dissolved</b>	Selenium (Se)	µg/L	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
<b>Dissolved</b>	Strontium (Sr)	µg/L	NA	NA	NA	NA	NA	NA	32	32	26	26	32	31
<b>Dissolved</b>	Thallium (Tl)	µg/L	NA	NA	NA	NA	NA	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
<b>Dissolved</b>	Titanium (Ti)	µg/L	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	10 U	10 U	10 U
<b>Dissolved</b>	Vanadium (V)	µg/L	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	10 U	10 U	10 U
<b>Dissolved</b>	Zinc (Zn)	µg/L	23	34	35	24	34	35	10 U	10 U	10 U	10 U	10 U	10 U

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- Water Quality Standards (WQS) provided for screening purposes, as some WQS require multiple metals sampling events to fully evaluate compliance.
- Some metals WQS vary based on water hardness. See total metals results table for hardness at each sampling location.
- Chromium results represent dissolved total chromium. WQS shown are for hexavalent chromium VI.