

Location: Lee Plant on Neuse River

Date: 10/12/2018, DWR Total Metals Samples

Sample Fraction	Parameter	Units	WQS	UPS Result (Lee1A)	DNS Result (Lee2A)
Total	Hardness (calculated)	mg/L	100	30	31
Total	Silver (Ag)	µg/L	NA	1.0 U	1.0 U
Total	Aluminum (Al)	µg/L	NA	900	800
Total	Antimony (Sb)	µg/L	NA	10 U	10 U
Total	Arsenic (As)	µg/L	10	2.0 U	2.0 U
Total	Boron (B)	µg/L	NA	50 U	50 U
Total	Barium (Ba)	µg/L	1000	48	46
Total	Beryllium (Be)	µg/L	NA	5.0 U	5.0 U
Total	Cadmium (Cd)	µg/L	NA	0.50 U	0.50 U
Total	Cobalt (Co)	µg/L	NA	50 U	50 U
Total	Chromium (Cr)	µg/L	NA	5.0 U	5.0 U
Total	Copper (Cu)	µg/L	NA	2.0	2.0 U
Total	Iron (Fe)	µg/L	NA	2800	2400
Total	Potassium (K)	mg/L	NA	4.4	4.6
Total	Manganese (Mn)	µg/L	NA	290	210
Total	Molybdenum (Mo)	µg/L	NA	10 U	10 U
Total	Sodium (Na)	mg/L	NA	10	9.3
Total	Nickel (Ni)	µg/L	25	2.0 U	2.0 U
Total	Lead (Pb)	µg/L	NA	2.0 U	2.0 U
Total	Selenium (Se)	µg/L	5	1.0 U	1.0 U
Total	Strontium (Sr)	µg/L	NA	73	45
Total	Thallium (Tl)	µg/L	NA	2.0 U	2.0 U
Total	Titanium (Ti)	µg/L	NA	24	21
Total	Vanadium (V)	µg/L	NA	10 U	10 U
Total	Zinc (Zn)	µg/L	NA	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 freshwater water supply (WS) waters.

Location: Lee Plant on Neuse River

Date: 10/12/2018, DWR Dissolved Metals Samples

Sample Fraction	Parameter	Units	Acute WQS (Hardness = 30)	Acute WQS (Hardness = 31)	Chronic WQS (Hardness = 30)	Chronic WQS (Hardness = 31)	UPS (Lee1A) Rep-1	UPS (Lee1A) Rep-2	DNS (Lee2A) Rep-1	DNS (Lee2A) Rep-2
Total	Hardness		30	31	30	31				
Dissolved	Silver (Ag)	µg/L	0.41	0.43	0.06	0.06	1.0 U	1.0 U	1.0 U	1.0 U
Dissolved	Aluminum (Al)	µg/L	NA	NA	NA	NA	200	66	190	230
Dissolved	Antimony (Sb)	µg/L	NA	NA	NA	NA	10 U	10 U	10 U	10 U
Dissolved	Arsenic (As)	µg/L	340	340	150	150	2.0 U	2.0 U	2.0 U	2.0 U
Dissolved	Boron (B)	µg/L	NA	NA	NA	NA	50 U	50 U	50 U	50 U
Dissolved	Barium (Ba)	µg/L	NA	NA	NA	NA	36	34	37	38
Dissolved	Beryllium (Be)	µg/L	65	65	6.5	6.5	5.0 U	5.0 U	5.0 U	5.0 U
Dissolved	Cadmium (Cd)	µg/L	0.96	0.99	0.17	0.18	0.50 U	0.50 U	0.50 U	0.50 U
Dissolved	Cobalt (Co)	µg/L	NA	NA	NA	NA	50 U	50 U	50 U	50 U
Dissolved	Chromium (Cr)	µg/L	16	16	11	11	5.0 U	5.0 U	5.0 U	5.0 U
Dissolved	Copper (Cu)	µg/L	4.3	4.5	3.2	3.3	2.0 U	2.0 U	2.0 U	2.0 U
Dissolved	Iron (Fe)	µg/L	NA	NA	NA	NA	970	840	870	1100
Dissolved	Potassium (K)	mg/L	NA	NA	NA	NA	4.4	4.4	4.5	4.6
Dissolved	Manganese (Mn)	µg/L	NA	NA	NA	NA	120	84	89	110
Dissolved	Molybdenum (Mo)	µg/L	NA	NA	NA	NA	10 U	10 U	10 U	10 U
Dissolved	Sodium (Na)	mg/L	NA	NA	NA	NA	10	9.9	9.1	9.2
Dissolved	Nickel (Ni)	µg/L	169	174	19	19	2.0 U	2.0 U	2.0 U	2.0 U
Dissolved	Lead (Pb)	µg/L	17.0	17.7	0.7	0.7	2.0 U	2.0 U	2.0 U	2.0 U
Dissolved	Selenium (Se)	µg/L	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U
Dissolved	Strontium (Sr)	µg/L	NA	NA	NA	NA	43	42	44	46
Dissolved	Thallium (Tl)	µg/L	NA	NA	NA	NA	2.0 U	2.0 U	2.0 U	2.0 U
Dissolved	Titanium (Ti)	µg/L	NA	NA	NA	NA	10 U	10 U	10 U	10 U
Dissolved	Vanadium (V)	µg/L	NA	NA	NA	NA	10 U	10 U	10 U	10 U
Dissolved	Zinc (Zn)	µg/L	42	43	43	44	10 U	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.
- 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.