

EDEN NORTH CAROLINA COAL ASH SPILL DRINKING WATER RESULTS

NOTE: The data below represents drinking water samples that were collected on April 16, 2014 by EPA sampling teams. Water sample measurement are in milligrams per liter (mg/L) and/or micrograms per liter (µg/L) for drinking water samples. The data is being compared to EPA and State Maximum Contaminant Levels (MCLs) and other health based levels. To date, there have been no samples that have exceeded drinking water levels. This sample represents the same water that is being delivered to your tap. Specific qualifiers and footnotes are listed below the summary table.

Analyte	Human Health Screening Standard for Drinking Water Samples ¹		Danville WTP		S Boston WTP Lab	
Sample Information						
Sample ID	-		EDEN-DWTP-FINISH-1-20140416		EDEN-SBWTP-FINISH-2-20140416	
Date	-		04/16/2014		04/16/2014	
Time	-		0602		2100	
Status	-		Validation Complete		Validation Complete	
Type	-		Drinking Water		Drinking Water	
Dissolved metals						
Aluminum	47,000	µg/L	14J	µg/L	14J	µg/L
Antimony	6	µg/L	1U	µg/L	1U	µg/L
Arsenic	5	µg/L	1U	µg/L	1U	µg/L
Barium	2,000	µg/L	27J+	µg/L	33J+	µg/L
Beryllium	4	µg/L	0.4U	µg/L	0.4U	µg/L
Boron	9.3	mg/L	0.054J+	mg/L	0.044J+	mg/L
Cadmium	5	µg/L	0.1U	µg/L	0.1U	µg/L
Calcium	Essential nutrient		5,900	µg/L	5,800	µg/L
Chromium	3	µg/L	1.4J	µg/L	1.9J	µg/L
Cobalt	14	µg/L	0.4U	µg/L	0.4U	µg/L
Copper	1,300	µg/L	6.7	µg/L	2.5	µg/L
Iron	33,000	µg/L	50U	µg/L	50U	µg/L
Lead	15	µg/L	0.06J	µg/L	0.3U	µg/L
Magnesium	Essential nutrient		2,200	µg/L	2,200	µg/L
Manganese	970	µg/L	2.5U	µg/L	2.5U	µg/L
Mercury	0.002	mg/L	0.0002U	mg/L	0.0002U	mg/L
Molybdenum	78	µg/L	1U	µg/L	1U	µg/L
Nickel	910	µg/L	1U	µg/L	0.58J	µg/L
Potassium	Essential nutrient		1,900	µg/L	1,900	µg/L
Selenium	50	µg/L	2U	µg/L	2U	µg/L
Silver	210	µg/L	1U	µg/L	1U	µg/L
Sodium	Essential nutrient		8,300	µg/L	26,000	µg/L
Thallium	0.5	µg/L	0.2U	µg/L	0.2U	µg/L
Vanadium	190	µg/L	5J	µg/L	0.62J	µg/L
Zinc	14,000	µg/L	20U	µg/L	12J	µg/L
Total Dissolved Solids						
Total Dissolved Solids	-	-	72	mg/L	120	mg/L
Total Suspended Solids						
Total Suspended Solids	-	-	5U	mg/L	5U	mg/L

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Total Metals						
Aluminum	47,000	µg/L	8.4J+	µg/L	12J+	µg/L
Antimony	6	µg/L	1U	µg/L	1U	µg/L
Arsenic	5	µg/L	1U	µg/L	1U	µg/L
Barium	2,000	µg/L	27J+	µg/L	33J+	µg/L
Beryllium	4	µg/L	0.4U	µg/L	0.4U	µg/L
Boron	9.3	mg/L	0.054J	mg/L	0.044J	mg/L
Cadmium	5	µg/L	0.1U	µg/L	0.1U	µg/L
Calcium	Essential nutrient		6,000	µg/L	6,000	µg/L
Chromium	3	µg/L	2U	µg/L	1.1J	µg/L
Cobalt	14	µg/L	0.4U	µg/L	0.4U	µg/L
Copper	1,300	µg/L	6.6	µg/L	2.6	µg/L
Iron	33,000	µg/L	50U	µg/L	50U	µg/L
Lead	15	µg/L	0.3U	µg/L	0.3U	µg/L
Magnesium	Essential nutrient		2,200	µg/L	2,200	µg/L
Manganese	970	µg/L	2.5U	µg/L	2.5U	µg/L
Mercury	0.002	mg/L	0.0002U	mg/L	0.0002U	mg/L
Molybdenum	78	µg/L	1U	µg/L	1U	µg/L
Nickel	910	µg/L	1U	µg/L	0.45J	µg/L
Potassium	Essential nutrient		1,900	µg/L	1,900	µg/L
Selenium	50	µg/L	2U	µg/L	0.76J	µg/L
Silver	210	µg/L	1U	µg/L	1U	µg/L
Sodium	Essential nutrient		8,300	µg/L	26,000	µg/L
Thallium	0.5	µg/L	0.2U	µg/L	0.2U	µg/L
Vanadium	190	µg/L	3.3J	µg/L	4.9	µg/L
Zinc	14,000	µg/L	20U	µg/L	11J	µg/L
Anions						
Bromide	-	-	11J	µg/L	-	-
Chloride	250	mg/L	6.4	mg/L	12	mg/L
Sulfate	250	mg/L	25	mg/L	41	mg/L
Wet Chemistry						
Alkalinity, Total (As CaCO ₃)	-	-	8.1	mg/L	20	mg/L
Hardness, Calcium/Magnesium (As CaCO ₃)	-	-	24	mg/L	24	mg/L
Organic Carbon, Dissolved	-	-	1.3	mg/L	1.5	mg/L
pH	6.5 - 9.0	std	6.77J	std	7.23J	std

Notes

¹ Value obtained from EPA Maximum Contaminant Level (MCL), Removal Management Levels, Secondary MCL, and Lifetime Health Advisory values

EPA U.S. Environmental Protection Agency

J Value is estimated

J+ Value is estimated with a possible high bias

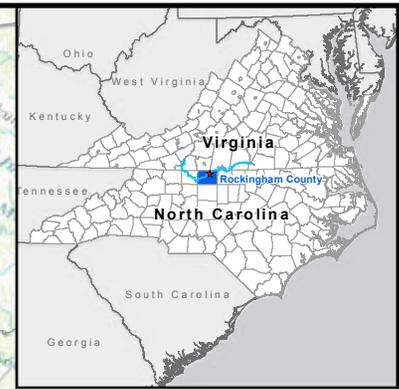
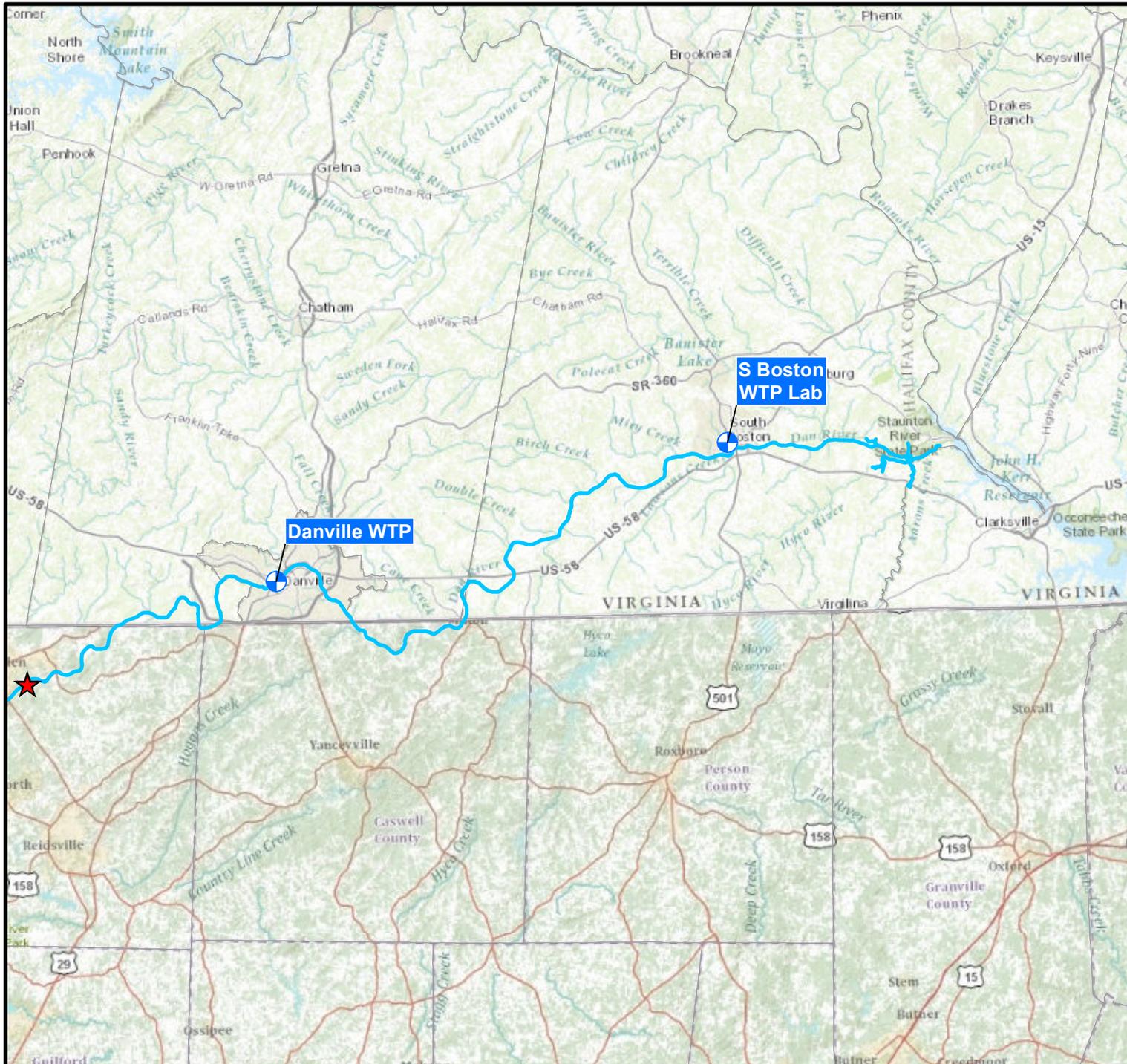
J- Value is estimated with a possible low bias

µg/L micrograms per liter

mg/L milligrams per liter

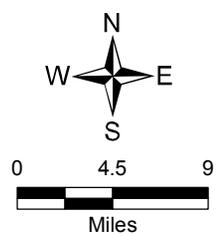
U Analyte was not detected at the listed reporting limit.

UJ Analyte was not detected at the listed reporting limit, which is an estimated quantitation.



Legend

- ★ Approximate Spill Location
- ⊕ Drinking Water Sample Location
- Dan River



Map Source: ArcGIS Online World Map Topo, 2014

Drinking Water Sample Locations
April 16, 2014

