EDEN NORTH CAROLINA COAL ASH SPILL
DRINKING WATER RESULTS

NOTE: The data below represents drinking water samples that were collected on April 7, 2014 by EPA START (Team 1). 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]		S Boston WTP Lab	
Sample Information				
Sample ID	-		EDEN-SBWTP-FINISH-1-20140407	
Date	-		04/07/2014	
Time	-		2030	
Status	-		Validation Complete	
Type	-		Drinking Water	
Dissolved metals				
Aluminum	47,000	µg/L	20U	µg/L
Antimony	6	µg/L	5U	µg/L
Arsenic	5	µg/L	0.127J	µg/L
Barium	2,000	µg/L	22.3	µg/L
Beryllium	4	µg/L	0.65U	µg/L
Boron	9.3	mg/L	0.0947	mg/L
Cadmium	5	µg/L	0.1U	µg/L
Calcium	Essential nutrient		6,960	µg/L
Chromium	3	µg/L	0.442J	µg/L
Cobalt	14	µg/L	5U	µg/L
Copper	1,300	µg/L	2.1J+	µg/L
Iron	33,000	µg/L	100U	µg/L
Lead	15	µg/L	0.5U	µg/L
Magnesium	Essential nutrient		2,810J	µg/L
Manganese	970	µg/L	0.181J	µg/L
Mercury	0.002	mg/L	0.0002U	mg/L
Molybdenum	78	µg/L	5U	µg/L
Nickel	910	µg/L	0.286J	µg/L
Potassium	Essential nutrient		1,980J	µg/L
Selenium	50	µg/L	0.394J	µg/L
Silver	210	µg/L	0.05U	µg/L
Sodium	Essential nutrient		26,400	µg/L
Thallium	0.5	µg/L	0.2U	µg/L
Vanadium	190	µg/L	0.374J	µg/L
Zinc	14,000	µg/L	9.91J	µg/L
Total Dissolved Solids				
Total Dissolved Solids	-	-	119	mg/L
Total Suspended Solids				
Total Suspended Solids	-	-	2J	mg/L

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Sample Information				
Sample ID	-		EDEN-SBWTP-FINISH-1-20140407	
Date	-		04/07/2014	
Time	-		2030	
Status	-		Validation Complete	
Type	-		Drinking Water	
Total Metals				
Aluminum	47,000	µg/L	12J	µg/L
Antimony	6	µg/L	0.97J	µg/L
Arsenic	5	µg/L	4.5U	µg/L
Barium	2,000	µg/L	23.2	µg/L
Beryllium	4	µg/L	0.65U	µg/L
Boron	9.3	mg/L	0.0999J+	mg/L
Cadmium	5	µg/L	0.1U	µg/L
Calcium	Essential nutrient		7,020	µg/L
Chromium	3	µg/L	2.5U	µg/L
Cobalt	14	µg/L	5U	µg/L
Copper	1,300	µg/L	1.38J	µg/L
Iron	33,000	µg/L	100U	µg/L
Lead	15	µg/L	0.122J	µg/L
Magnesium	Essential nutrient		2,740J	µg/L
Manganese	970	µg/L	5U	µg/L
Mercury	0.002	mg/L	0.0002U	mg/L
Molybdenum	78	µg/L	0.257J	µg/L
Nickel	910	µg/L	0.329J	µg/L
Potassium	Essential nutrient		1,820J	µg/L
Selenium	50	µg/L	4.5U	µg/L
Silver	210	µg/L	0.05U	µg/L
Sodium	Essential nutrient		25,700	µg/L
Thallium	0.5	µg/L	0.2U	µg/L
Vanadium	190	µg/L	5U	µg/L
Zinc	14,000	µg/L	11.7J+	µg/L
Anions				
Bromide	-	-	1U	mg/L
Chloride	250	mg/L	14.3	mg/L
Sulfate	250	mg/L	45.5	mg/L
Wet Chemistry				
Alkalinity, Total (As CaCO3)	-	-	36.7	mg/L
Hardness, Calcium/Magnesium (As CaCO3)	-	-	28.8	mg/L
Organic Carbon, Dissolved	-	-	2	mg/L
pH	6.5 - 9.0	std	7.42J	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

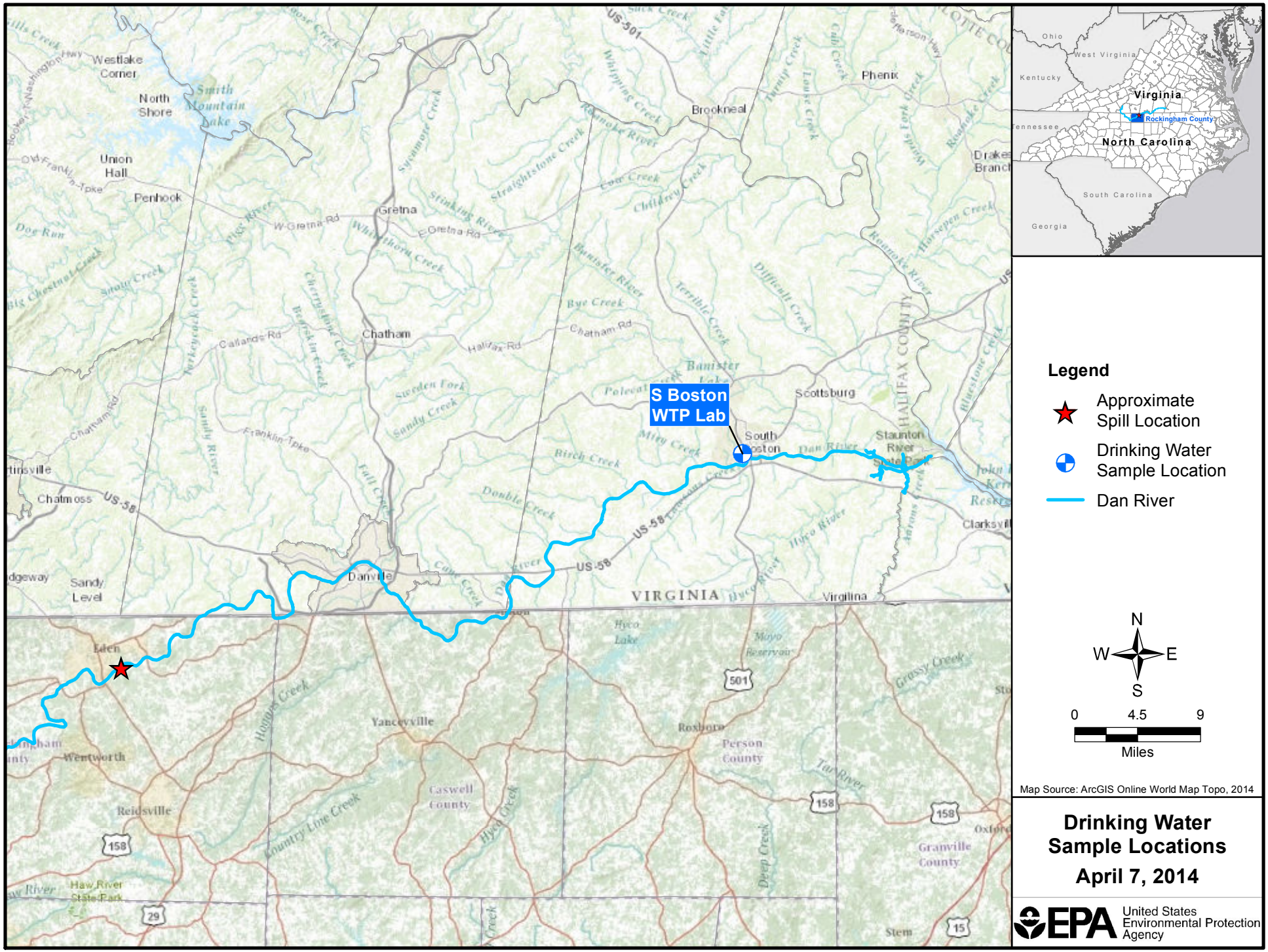
J- Value is estimated with a possible low bias

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.


S Boston
WTP Lab
Eden
Danville
VIRGINIA
Chatham
Gretna
Brookneal
Scottsburg
South Boston
Staunton River State Park
Virgilina
Yanceyville
Roxboro
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Caswell County
Granville County
Reidsville
Wentworth
Haw River State Park
Chatmoss
Sandy Level
Union Hall
Penhook
North Shore
Westlake Corner
Phenix
Clarksville
Ohio
West Virginia
Kentucky
Virginia
Rockingham County
North Carolina
South Carolina
Georgia
Legend
Approximate Spill Location
Drinking Water Sample Location
Dan River
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Map Source: ArcGIS Online World Map Topo, 2014
Drinking Water Sample Locations
April 7, 2014
EPA
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