

EDEN NORTH CAROLINA COAL ASH SPILL DRINKING WATER RESULTS

NOTE: The data below represents drinking water samples that were collected on April 8, 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.

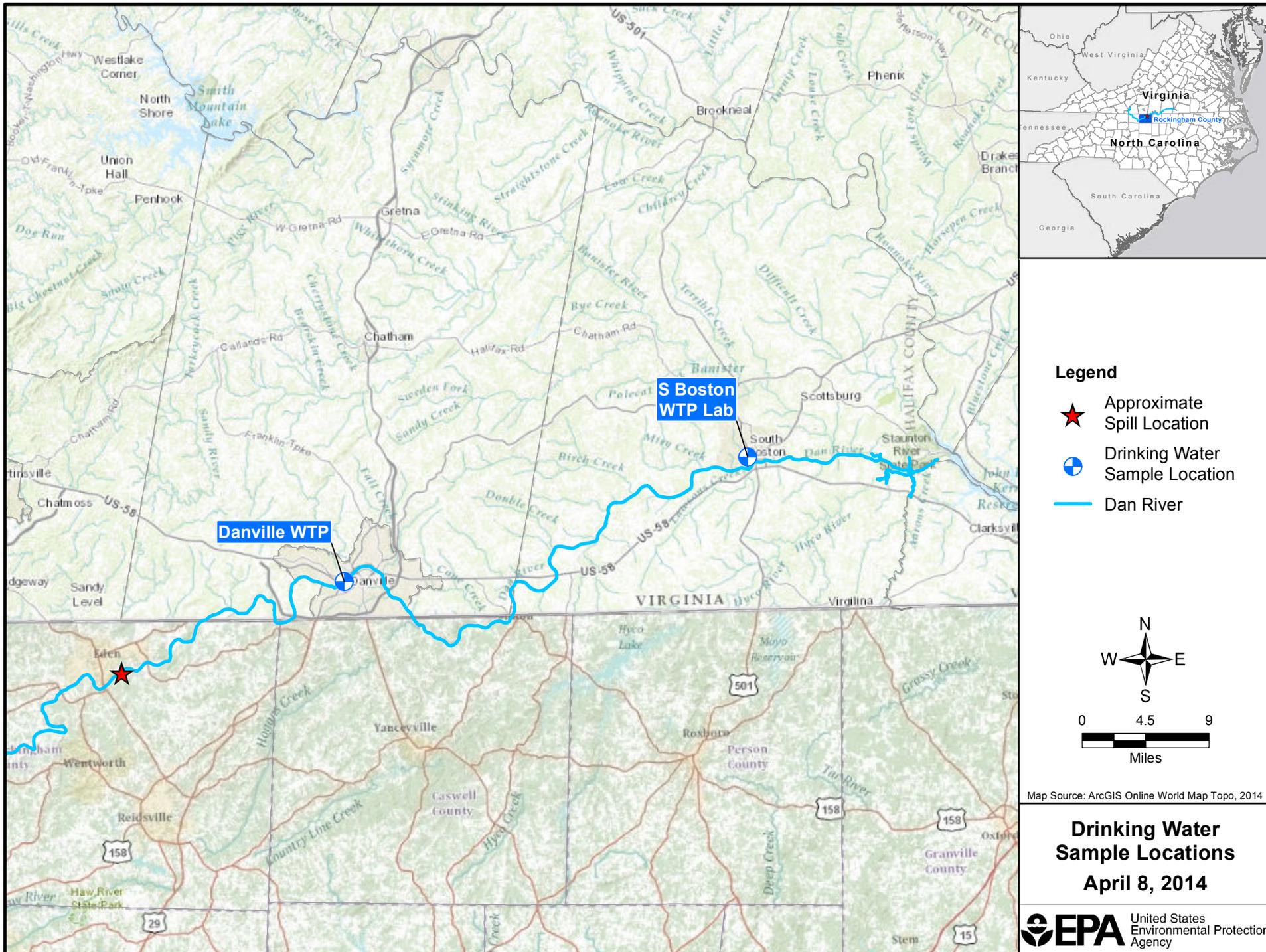
Analyte	Human Health Screening Standard for Drinking Water Samples ¹		Danville WTP		Danville WTP		S Boston WTP Lab	
Sample Information								
Sample ID	-		EDEN-DWTP-FINISH-1-20140408		EDEN-DWTP-FINISH-2-20140408		EDEN-SBWTP-FINISH-2-20140408	
Date	-		04/08/2014		04/08/2014		04/08/2014	
Time	-		1330		2330		1400	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Type	-		Drinking Water		Drinking Water		Drinking Water	
Dissolved metals								
Aluminum	47,000	µg/L	20U	µg/L	20U	µg/L	20U	µg/L
Antimony	6	µg/L	5U	µg/L	5U	µg/L	5U	µg/L
Arsenic	5	µg/L	0.107J	µg/L	4.5U	µg/L	4.5U	µg/L
Barium	2,000	µg/L	30.7	µg/L	30.9	µg/L	41.4	µg/L
Beryllium	4	µg/L	0.65U	µg/L	0.65U	µg/L	0.65U	µg/L
Boron	9.3	mg/L	0.0751J+	mg/L	0.0614J+	mg/L	0.0647J+	mg/L
Cadmium	5	µg/L	0.1U	µg/L	0.1U	µg/L	0.1U	µg/L
Calcium	Essential nutrient		6,390	µg/L	5,600	µg/L	5,930	µg/L
Chromium	3	µg/L	0.128J	µg/L	0.131J	µg/L	0.318J	µg/L
Cobalt	14	µg/L	5U	µg/L	5U	µg/L	5U	µg/L
Copper	1,300	µg/L	5.41J+	µg/L	5.76J+	µg/L	2.01J+	µg/L
Iron	33,000	µg/L	100U	µg/L	100U	µg/L	100U	µg/L
Lead	15	µg/L	0.172J	µg/L	0.5U	µg/L	0.5U	µg/L
Magnesium	Essential nutrient		2,400J	µg/L	2,090J	µg/L	2,370J	µg/L
Manganese	970	µg/L	0.55J	µg/L	0.528J	µg/L	0.16J	µg/L
Mercury	0.002	mg/L	0.0002U	mg/L	0.0002U	mg/L	0.0002U	mg/L
Molybdenum	78	µg/L	5U	µg/L	5U	µg/L	5U	µg/L
Nickel	910	µg/L	0.3J	µg/L	0.284J	µg/L	0.555J	µg/L
Potassium	Essential nutrient		2,180J	µg/L	2,220J	µg/L	2,500J	µg/L
Selenium	50	µg/L	4.5U	µg/L	4.5U	µg/L	4.5U	µg/L
Silver	210	µg/L	0.05U	µg/L	0.05U	µg/L	0.05U	µg/L
Sodium	Essential nutrient		10,100	µg/L	10,900	µg/L	27,100	µg/L
Thallium	0.5	µg/L	0.2U	µg/L	0.2U	µg/L	0.2U	µg/L
Vanadium	190	µg/L	0.225J	µg/L	0.186J	µg/L	0.222J	µg/L
Zinc	14,000	µg/L	4.24J	µg/L	10U	µg/L	10.4	µg/L
Total Dissolved Solids								
Total Dissolved Solids	-	-	76	mg/L	78	mg/L	124	mg/L
Total Suspended Solids								
Total Suspended Solids	-	-	1J	mg/L	3.5J	mg/L	5U	mg/L

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Date	-		04/08/2014	04/08/2014	04/08/2014			
Time	-		1330	2330	1400			
Status	-		Validation Complete	Validation Complete	Validation Complete			
Type	-		Drinking Water	Drinking Water	Drinking Water			
Total Metals								
Aluminum	47,000	µg/L	16.5J	µg/L	11.2J	µg/L	19.8J	µg/L
Antimony	6	µg/L	0.923J	µg/L	0.919J	µg/L	0.914J	µg/L
Arsenic	5	µg/L	0.313J	µg/L	0.244J	µg/L	0.152J	µg/L
Barium	2,000	µg/L	32.2	µg/L	32.7	µg/L	43.6	µg/L
Beryllium	4	µg/L	0.65U	µg/L	0.65U	µg/L	0.65U	µg/L
Boron	9.3	mg/L	0.0767J+	mg/L	0.0524J+	mg/L	0.0688J+	mg/L
Cadmium	5	µg/L	0.1U	µg/L	0.1U	µg/L	0.1U	µg/L
Calcium	Essential nutrient		6,440	µg/L	5,640	µg/L	6,090	µg/L
Chromium	3	µg/L	2.5U	µg/L	2.5U	µg/L	2.5U	µg/L
Cobalt	14	µg/L	5U	µg/L	5U	µg/L	0.225J	µg/L
Copper	1,300	µg/L	5.57	µg/L	6.07	µg/L	2.03	µg/L
Iron	33,000	µg/L	100U	µg/L	100U	µg/L	100U	µg/L
Lead	15	µg/L	0.5U	µg/L	0.5U	µg/L	0.5U	µg/L
Magnesium	Essential nutrient		2,300J	µg/L	2,030J	µg/L	2,330J	µg/L
Manganese	970	µg/L	5U	µg/L	5U	µg/L	14.2	µg/L
Mercury	0.002	mg/L	0.0002U	mg/L	0.0002U	mg/L	0.0002U	mg/L
Molybdenum	78	µg/L	5U	µg/L	5U	µg/L	0.34J	µg/L
Nickel	910	µg/L	0.343J	µg/L	0.37J	µg/L	0.656J	µg/L
Potassium	Essential nutrient		1,950J	µg/L	2,000J	µg/L	2,330J	µg/L
Selenium	50	µg/L	4.5U	µg/L	4.5U	µg/L	4.5U	µg/L
Silver	210	µg/L	0.05U	µg/L	0.05U	µg/L	0.039J	µg/L
Sodium	Essential nutrient		9,510	µg/L	10,300	µg/L	26,500	µg/L
Thallium	0.5	µg/L	0.2U	µg/L	0.2U	µg/L	0.015J	µg/L
Vanadium	190	µg/L	5U	µg/L	5U	µg/L	5U	µg/L
Zinc	14,000	µg/L	10U	µg/L	10U	µg/L	13.7J+	µg/L
Anions								
Bromide	-	-	1U	mg/L	1U	mg/L	1U	mg/L
Chloride	250	mg/L	7.52	mg/L	6.3	mg/L	13.9	mg/L
Sulfate	250	mg/L	28.8	mg/L	31.4	mg/L	48.8	mg/L
Wet Chemistry								
Alkalinity, Total (As CaCO ₃)	-	-	10.5	mg/L	10U	mg/L	21.9	mg/L
Hardness, Calcium/Magnesium (As CaCO ₃)	-	-	25.6	mg/L	22.4	mg/L	24.8	mg/L
Organic Carbon, Dissolved	-	-	2.78	mg/L	2.41	mg/L	3.03	mg/L
pH	6.5 - 9.0	std	6.6J	std	6.37J	std	7.25J	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.



Map Source: ArcGIS Online World Map Topo, 2014

**Drinking Water
Sample Locations
April 8, 2014**

