

EDEN NORTH CAROLINA COAL ASH SPILL DRINKING WATER RESULTS

NOTE: The data below represents drinking water samples that were collected on Feb 11, 2014 by EPA START (Team 1). Water sample measurement are in milligrams per liter (mg/L) and/or micrograms per liter (ug/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.

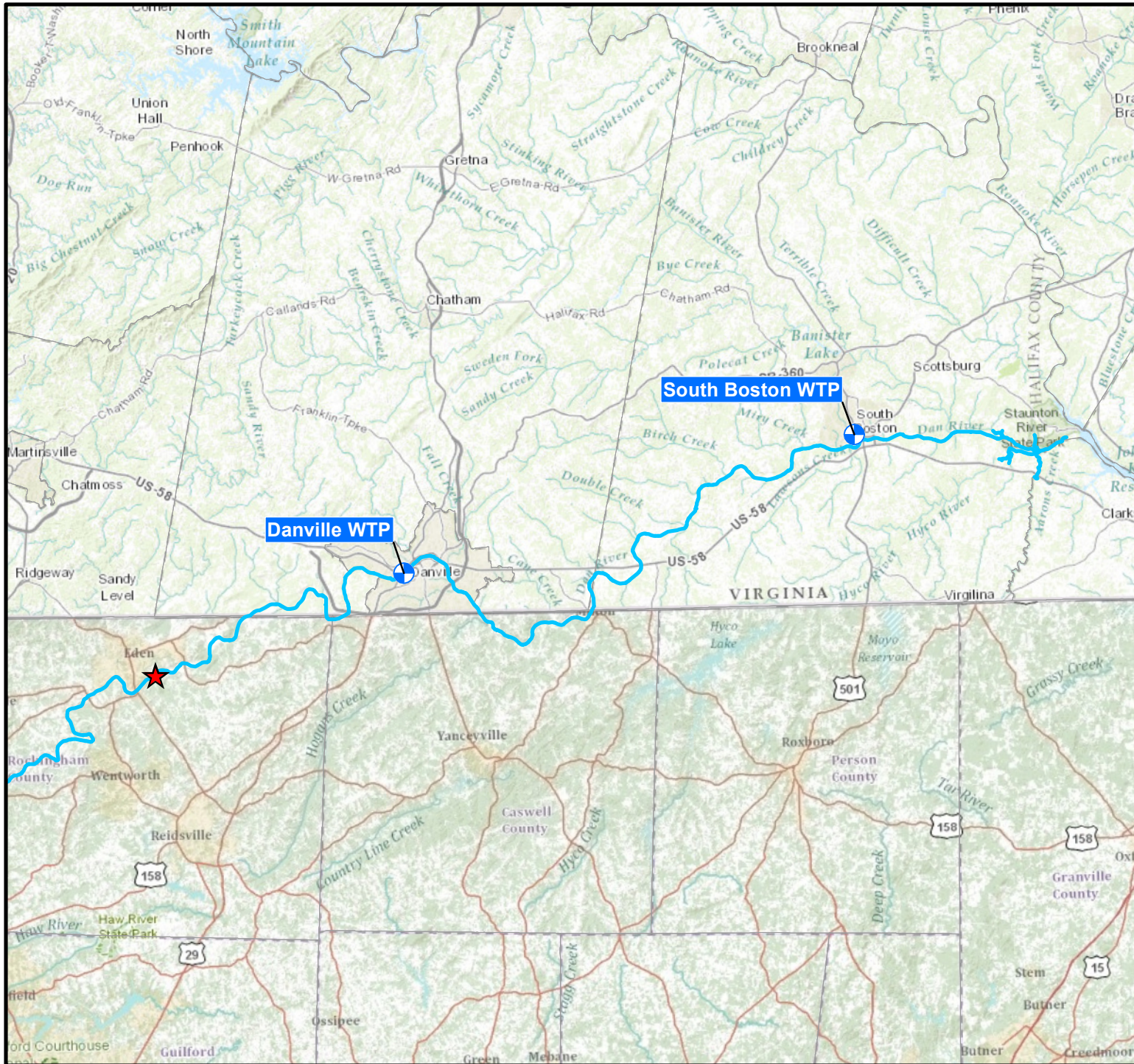
Analyte	Human Health Screening Standard for Drinking Water Samples ¹		Danville WTP		Danville WTP		S Boston WTP	
Sample Information								
Sample ID	-		EDEN-DWTP-FINISH-20140211		EDEN-DWTP-FINISH-20140211-DUP		EDEN-SBWTP-FINISH-20140211	
Date	-		2/11/2014		2/11/2014		2/11/2014	
Time	-		1145		1150		0945	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Type	-		Drinking Water		Drinking Water		Drinking Water	
Dissolved metals SW6010C/6020A/7470A								
Aluminum	47,000	µg/L	15.8J+	µg/L	15.2	µg/L	13.4J+	µg/L
Antimony	6	µg/L	5.00U	µg/L	5.00U	µg/L	5.00U	µg/L
Arsenic	5	µg/L	4.50U	µg/L	4.50U	µg/L	4.50U	µg/L
Barium	2,000	µg/L	20.5	µg/L	20.5	µg/L	21.6	µg/L
Beryllium	4	µg/L	1.00U	µg/L	1.00U	µg/L	1.00U	µg/L
Boron	9.3	mg/L	0.192J	mg/L	0.144J	mg/L	0.0989	mg/L
Cadmium	5	µg/L	0.700U	µg/L	0.700U	µg/L	0.700U	µg/L
Calcium	Essential nutrient		10,200	µg/L	10,100	µg/L	7,100	µg/L
Chromium	3	µg/L	2.50U	µg/L	2.50U	µg/L	2.50U	µg/L
Cobalt	14	µg/L	5.00U	µg/L	5.00U	µg/L	5.00U	µg/L
Copper	1,300	µg/L	2.00U	µg/L	2.00U	µg/L	2.05J+	µg/L
Iron	33,000	µg/L	7.06J	µg/L	100U	µg/L	100U	µg/L
Lead	15	µg/L	1.00U	µg/L	1.00U	µg/L	1.00U	µg/L
Magnesium	Essential nutrient		2,590	µg/L	2,580	µg/L	2,640	µg/L
Manganese	970	µg/L	1.04J	µg/L	5.00U	µg/L	5.00U	µg/L
Mercury	0.002	mg/L	0.00020U	mg/L	0.00020U	mg/L	0.00020U	mg/L
Molybdenum	78	µg/L	5.00U	µg/L	5.00U	µg/L	5.00U	µg/L
Nickel	910	µg/L	0.243J	µg/L	0.198J	µg/L	0.239J	µg/L
Potassium	Essential nutrient		1490	µg/L	1470	µg/L	1550	µg/L
Selenium	50	µg/L	5.00U	µg/L	5.00U	µg/L	5.00U	µg/L
Silica	-	-	7,080	mg/L	7,080	mg/L	6,400	mg/L
Silver	210	µg/L	1.00U	µg/L	1.00U	µg/L	1.00U	µg/L
Sodium	Essential nutrient		4730	µg/L	4700	µg/L	29000	µg/L
Thallium	0.5	µg/L	0.200U	µg/L	0.200U	µg/L	0.200U	µg/L
Vanadium	190	µg/L	5.00U	µg/L	5.00U	µg/L	5.00U	µg/L
Zinc	14,000	µg/L	10.0U	µg/L	10.0U	µg/L	77.4	µg/L
Total Dissolved Solids EPA 160.1								
Total Dissolved Solids	-	-	76	mg/L	66	mg/L	130	mg/L
Total Suspended Solids EPA 160.2								
Total Suspended Solids	-	-	2.0J	mg/L	5.0U	mg/L	1.50J	mg/L

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Sample Information								
Sample ID	-		EDEN-DWTP-FINISH-20140211		EDEN-DWTP-FINISH-20140211-DUP		EDEN-SBWTP-FINISH-20140211	
Total Metals SW6010C/6020A/7470A								
Aluminum	47,000	µg/L	20.9J+	µg/L	20.9	µg/L	24.5J+	µg/L
Antimony	6	µg/L	5.00U	µg/L	5.00U	µg/L	5.00U	µg/L
Arsenic	5	µg/L	4.50U	µg/L	4.50U	µg/L	4.50U	µg/L
Barium	2,000	µg/L	21.5	µg/L	20.9	µg/L	23.1	µg/L
Beryllium	4	µg/L	1.00U	µg/L	1.00U	µg/L	1.00U	µg/L
Boron	-	-	0.205J	mg/L	0.152J	mg/L	0.104	mg/L
Cadmium	5	µg/L	0.700U	µg/L	0.700U	µg/L	0.700U	µg/L
Calcium	Essential nutrient		10,100	µg/L	10,200	µg/L	7,320	µg/L
Chromium	3	µg/L	2.50U	µg/L	2.50U	µg/L	0.570J	µg/L
Cobalt	14	µg/L	5.00U	µg/L	5.00U	µg/L	5.00U	µg/L
Copper	1,300	µg/L	2.53	µg/L	1.74J	µg/L	2.63	µg/L
Iron	33,000	µg/L	12.2J	µg/L	9.49J	µg/L	7.97J	µg/L
Lead	15	µg/L	1.00U	µg/L	1.00U	µg/L	1.00U	µg/L
Magnesium	Essential nutrient		2,580	µg/L	2,600	µg/L	2,700	µg/L
Manganese	970	µg/L	6.50J+	µg/L	6.46	µg/L	5.00U	µg/L
Mercury	0.002	mg/L	0.00020U	mg/L	0.00020U	mg/L	0.00020U	mg/L
Molybdenum	78	µg/L	5.00U	µg/L	5.00U	µg/L	5.00U	µg/L
Nickel	910	µg/L	0.249J	µg/L	0.269J	µg/L	0.352J	µg/L
Potassium	Essential nutrient		1,470	µg/L	1,500	µg/L	1,620	µg/L
Selenium	50	µg/L	5.00U	µg/L	5.00U	µg/L	5.00U	µg/L
Silica	-	-	7,030	mg/L	6,880	mg/L	5,990	mg/L
Silver	210	µg/L	1.00U	µg/L	1.00U	µg/L	1.00U	µg/L
Sodium	Essential nutrient		4,740	µg/L	4,790	µg/L	29,800	µg/L
Thallium	0.5	µg/L	0.200U	µg/L	0.200U	µg/L	0.200U	µg/L
Vanadium	190	µg/L	5.00U	µg/L	5.00U	µg/L	5.00U	µg/L
Zinc	14,000	µg/L	10.0U	µg/L	5.61J	µg/L	81.1	µg/L
Anions EPA 300								
Bromide	-	-	1.0U	mg/L	1.0U	mg/L	1.0U	mg/L
Chloride	250	mg/L	10	mg/L	10	mg/L	14	mg/L
Sulfate	250	mg/L	12	mg/L	12	mg/L	53	mg/L
Wet Chemistry EPA 310.2/SM2340B/SW9040 C/SW9060A								
Alkalinity, Total (As CaCO3)	-	-	59.6	mg/L	69.1	mg/L	98.6	mg/L
Hardness, Calcium/Magnesium (As CaCO3)	-	-	36.0	mg/L	36.3	mg/L	29.4	mg/L
Organic Carbon, Dissolved	-	-	4.43	mg/L	4.81	mg/L	2.67	mg/L
pH	6.5 - 9.0	std	7.04J	std	7.07J	std	7.07J	std

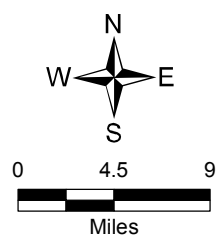
Notes

- 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
- µg/L micrograms per liter
- mg/L milligrams per liter
- U Analyte was not detected at the listed reporting limit.



Legend

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



Map Source: ArcGIS Online World Map Topo, 2014

**Drinking Water
Sample Locations
February 11, 2014**

