

**EDEN NORTH CAROLINA COAL ASH SPILL  
DRINKING WATER RESULTS**

NOTE: The data below represents drinking water samples that were collected on Feb 18, 2014 by EPA SEDS (Team 2). Water sample measurement are in milligrams per liter (mg/L), micrograms per liter (ug/L), and nanograms per liter (ng/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 <sup>1</sup>		South Boston Finished Water, collected from the tap in the plant lab.	
<b>Sample Information</b>				
Sample ID	-		SBF03	
Date	-		02/18/2014	
Time	-		0945	
Status	-		Validation Complete	
Media	-		Drinking Water	
<b>Dissolved Metals</b>				
Aluminum	47,000	µg/L	100U	µg/L
Antimony	6	µg/L	1U	µg/L
Arsenic	5	µg/L	1U	µg/L
Barium	2,000	µg/L	24	µg/L
Beryllium	4	µg/L	0.5U	µg/L
Boron	9,300	µg/L	90	µg/L
Cadmium	5	µg/L	0.08U	µg/L
Calcium	Essential nutrient		5800	µg/L
Chromium	3	µg/L	1.1U,J	µg/L
Cobalt	14	µg/L	5U	µg/L
Copper	1,300	µg/L	2	µg/L
Iron	33,000	µg/L	100U	µg/L
Lead	15	µg/L	0.4U	µg/L
Magnesium	Essential nutrient		2400	µg/L
Manganese	970	µg/L	5U	µg/L
Mercury	2,000	ng/L	2.2CR	ng/L
Molybdenum	78	µg/L	10U	µg/L
Nickel	910	µg/L	10U	µg/L
Potassium	Essential nutrient		1600	µg/L
Selenium	50	µg/L	2U	µg/L
Silver	210	µg/L	0.013U,J	µg/L
Sodium	Essential nutrient		29000	µg/L
Strontium	-	-	54	µg/L
Thallium	0.5	µg/L	0.2U	µg/L
Tin	-	-	15U	µg/L
Titanium	-	-	5U	µg/L
Vanadium	190	µg/L	5U	µg/L
Yttrium	-	-	3U	µg/L
Zinc	14,000	µg/L	10U	µg/L

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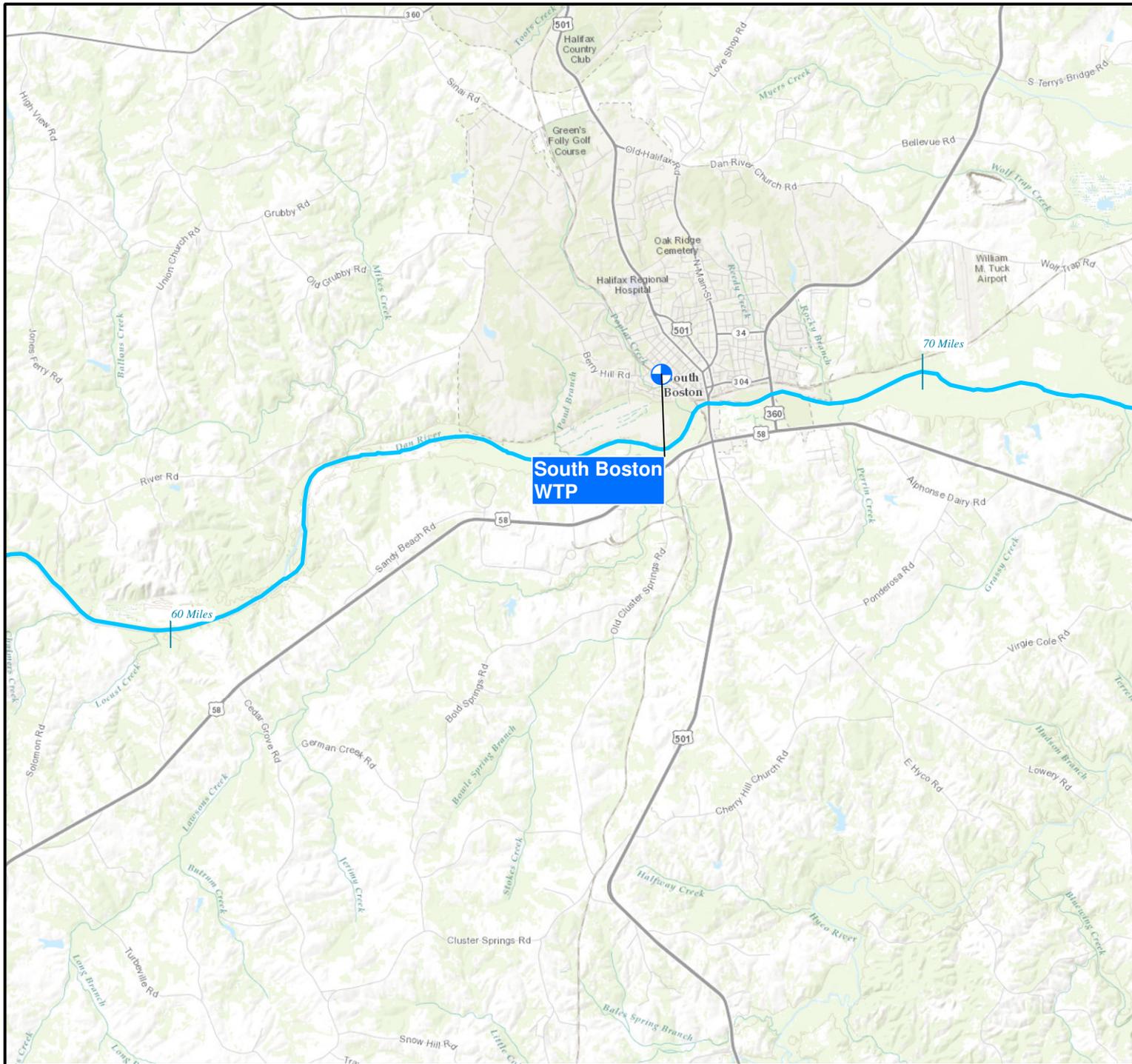
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Nickel	910	µg/L	10U	µg/L
Potassium	Essential nutrient		1700	µg/L
Selenium	50	µg/L	2U	µg/L
Silver	210	µg/L	0.013U,J	µg/L
Sodium	Essential nutrient		29000	µg/L
Strontium	-	-	55	µg/L
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Vanadium	190	µg/L	5U	µg/L
Yttrium	-	-	3U	µg/L
Zinc	14,000	µg/L	10U	µg/L
<b>Classical/Nutrient Analyses</b>				
Cyanide (total)	200	µg/L	15U	µg/L
Nitrate as N	10	mg/L	0.32	mg/L
Nitrate/Nitrite as N	-	-	0.32	mg/L
Nitrite as N	1	mg/L	0.05U	mg/L
Total Dissolved Solids	-	-	140	mg/L
Total Organic Carbon	-	-	1.5	mg/L
Total Suspended Solids	-	-	4U	mg/L

Notes

- <sup>1</sup> Value obtained from EPA Maximum Contaminant Level (MCL), Removal Management Levels, Secondary MCL, and Lifetime Health Advisory values
- CR Dissolved sample higher than total - within 10%
- EPA U.S. Environmental Protection Agency
- µg/L micrograms per liter
- mg/L milligrams per liter
- ng/L nanograms per liter

## DATA QUALIFIER DEFINITIONS

B-2	Reporting level elevated due to trace amounts of analyte present in the method blank
B-3	Level in blank does not impact data quality
B-4	Level in blank impacts MRLs
B-5	Qualitative evidence of contamination in the blank at a concentration less than the MDL
C-2	Improper sample container used
H-1	Recommended holding time exceeded
J	The identification of the analyte is acceptable; the reported value is an estimate
MRL-1	MRL verification for Potable Water matrix (Drinking Water)
MRL-2	MRL verification for Non-Potable Water matrix
MRL-3	MRL verification for Soil matrix
MRL-6	MRL verification for Waste matrix
N	There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification
NA-5	Not Analyzed. Cannot exceed TCLP regulatory levels based on Total Scan analyses
NA-9	Not Analyzed. No sample container received.
NJ	Presumptive evidence that the analyte is present; reported as a tentative identification with an estimated value
P-6	Incorrect reagent or technique used to preserve sample
Q-2	Result greater than MDL but less than MRL
QC-1	Analyte concentration low in continuing calibration verification standard
QC-2	Analyte concentration high in continuing calibration verification standard
QC-5	Calibration check standard less than method control limits
QC-6	Calibration check standard greater than method control limits
QI-1	Internal standard was outside of method control limits
QL-1	Laboratory Control Spike Recovery less than method control limits
QL-2	Laboratory Control Spike Recovery greater than method control limits
QL-3	Laboratory Control Spike Precision outside of method control limits
QM-1	Matrix Spike Recovery less than method control limits
QM-2	Matrix Spike Recovery greater than method control limits
QM-3	Matrix Spike Precision outside method control limits
QR-1	MRL verification recovery less than lower control limits
QR-2	MRL verification recovery greater than upper control limits
TIC	Tentatively Identified Compound - AN analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.
U	The analyte was not detected at or above the reporting limit
XD-2	Duplicate results less than 5X MRL
XM-1	Sample background/spike ratio higher than method evaluation criteria



**Legend**

-  River Miles Downstream from 48" Outfall
-  Approximate Spill Location
-  Drinking Water Sample Location
-  Dan River



Map Source: ArcGIS Online World Map Topo, 2014

**Drinking Water  
Sample Locations  
February 18, 2014**

