

## EDEN NORTH CAROLINA COAL ASH SPILL SURFACE WATER RESULTS

NOTE: The data below represents surface water samples that were collected on March 12, 2014 by EPA START (Team 1) sampling teams. Water sample measurements are in milligrams per liter (mg/L) and/or micrograms per liter (µg/L) for these samples. The data is being compared to EPA ecological risk screening levels (ERSLs) to protect aquatic life in the surface water of the Dan River. Specific qualifiers and footnotes are listed below the summary table. These samples were collected at various locations along the river (refer to map for generalized locations). The detected concentrations in surface water are all below the EPA ERSLs with the exception of aluminum, copper, iron, and lead. EPA typically screens the surface water concentrations using total metals samples, because this is a conservative practice for screening. Because none of these compounds were detected above screening levels in any of the samples of the dissolved fraction of surface water (i.e., samples that were filtered to remove particulates), there is no threat of toxicity to aquatic organisms. When chemical concentrations exceed the screening values it doesn't mean there will be adverse health or ecological effects, but recommends further investigation may be needed.

Analyte	Ecological Screening Standard for Surface Water Samples <sup>1</sup>		DRSS Boat Ramp		Hwy 700		Hwy 880	
<b>Sample Information</b>								
Sample ID	-		EDEN-DUKE-L-SW-20140312		EDEN-HW700-C-SW-20140312		EDEN-BHB-C-SW-20140312	
Date	-		03/12/2014		03/12/2014		03/12/2014	
Time	-		1312		1208		1143	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Type	-		Surface Water		Surface Water		Surface Water	
<b>Water Quality Monitoring</b>								
Temperature	-		-	-	-	-	-	-
Dissolved Oxygen	<6	mg/L	-	-	-	-	-	-
Specific Conductance	-		-	-	-	-	-	-
pH	6.5 - 9.0	std	-	-	-	-	-	-
Turbidity	50	NTU	-	-	-	-	-	-
<b>Dissolved metals</b>								
Aluminum	87	µg/L	22U	µg/L	22.6U	µg/L	29.1U	µg/L
Antimony	5.6	µg/L	5U	µg/L	5U	µg/L	5U	µg/L
Arsenic	10	µg/L	4.5U	µg/L	0.206J	µg/L	0.176J	µg/L
Barium	220	µg/L	19.2	µg/L	20.8	µg/L	21	µg/L
Beryllium	0.66	µg/L	0.65U	µg/L	0.65U	µg/L	0.65U	µg/L
Boron	0.36	mg/L	0.139U	mg/L	0.153U	mg/L	0.202U	mg/L
Cadmium	0.1	µg/L	0.1U	µg/L	0.1U	µg/L	0.1U	µg/L
Calcium	-	-	6,550	µg/L	6,710	µg/L	6,390	µg/L
Chromium	25	µg/L	0.15J	µg/L	0.173J	µg/L	0.174J	µg/L
Cobalt	3	µg/L	0.121J	µg/L	0.169J	µg/L	0.141J	µg/L
Copper	3	µg/L	2U	µg/L	2U	µg/L	2U	µg/L
Iron	1,000	µg/L	277	µg/L	287	µg/L	268	µg/L
Lead	0.59	µg/L	0.5U	µg/L	0.5U	µg/L	0.148J	µg/L
Magnesium	-	-	2,670J	µg/L	2,650J	µg/L	2,560J	µg/L
Manganese	200	µg/L	12.4	µg/L	8.38	µg/L	6.42	µg/L
Mercury	0.000012	mg/L	0.0002U	mg/L	0.0002U	mg/L	0.0002U	mg/L
Molybdenum	800	µg/L	5U	µg/L	5U	µg/L	5U	µg/L
Nickel	17	µg/L	0.211J	µg/L	0.317J	µg/L	0.327J	µg/L
Potassium	53,000	µg/L	1,570J	µg/L	1,630J	µg/L	1,580J	µg/L
Selenium	5	µg/L	4.5U	µg/L	4.5U	µg/L	4.5U	µg/L
Silver	0.06	µg/L	0.05U	µg/L	0.05U	µg/L	0.05U	µg/L
Sodium	680,000	µg/L	4,430J	µg/L	4,420J	µg/L	4,160J	µg/L
Thallium	0.24	µg/L	0.2U	µg/L	0.2U	µg/L	0.2U	µg/L
Vanadium	27	µg/L	0.367J	µg/L	0.403J	µg/L	0.456J	µg/L
Zinc	39	µg/L	10U	µg/L	2.23J	µg/L	2.6J	µg/L

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

Analyte	Ecological Screening Standard for Surface Water Samples <sup>1</sup>		DRSS Boat Ramp		Hwy 700		Hwy 880	
<b>Sample Information</b>								
Sample ID	-		EDEN-DUKE-L-SW-20140312		EDEN-HW700-C-SW-20140312		EDEN-BHB-C-SW-20140312	
Date	-		03/12/2014		03/12/2014		03/12/2014	
Time	-		1312		1208		1143	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Type	-		Surface Water		Surface Water		Surface Water	
<b>Total Dissolved Solids</b>								
Total Dissolved Solids	-	-	35	mg/L	35	mg/L	34	mg/L
<b>Total Suspended Solids</b>								
Total Suspended Solids	-	-	8.5	mg/L	18	mg/L	13.5	mg/L
<b>Total Metals</b>								
Aluminum	2,000	µg/L	503	µg/L	493	µg/L	718	µg/L
Antimony	5.6	µg/L	5U	µg/L	5U	µg/L	5U	µg/L
Arsenic	10	µg/L	4.5U	µg/L	4.5U	µg/L	4.5U	µg/L
Barium	220	µg/L	24.4	µg/L	25.5	µg/L	26.8	µg/L
Beryllium	0.66	µg/L	0.65U	µg/L	0.65U	µg/L	0.65U	µg/L
Boron	0.36	mg/L	0.138U	mg/L	0.16U	mg/L	0.206U	mg/L
Cadmium	2	µg/L	0.1U	µg/L	0.1U	µg/L	0.1U	µg/L
Calcium	-	-	6,630	µg/L	6,790	µg/L	6,710	µg/L
Chromium	29	µg/L	1.11J	µg/L	1.11J	µg/L	1.57J	µg/L
Cobalt	24	µg/L	0.421J	µg/L	0.378J	µg/L	0.489J	µg/L
Copper	3	µg/L	1.58J	µg/L	1.48J	µg/L	1.62J	µg/L
Iron	2,300	µg/L	1,240	µg/L	1,390	µg/L	1,580	µg/L
Lead	0.6	µg/L	0.499J	µg/L	0.621	µg/L	0.643	µg/L
Magnesium	-	-	2,740J	µg/L	2,720J	µg/L	2,740J	µg/L
Manganese	200	µg/L	29.9J-	µg/L	24.7J-	µg/L	29.1J-	µg/L
Mercury	0.000012	mg/L	0.0002U	mg/L	0.0002U	mg/L	0.0002U	mg/L
Molybdenum	-	-	5U	µg/L	5U	µg/L	5U	µg/L
Nickel	17	µg/L	0.658J	µg/L	0.673J	µg/L	0.84J	µg/L
Potassium	53,000	µg/L	1,550J	µg/L	1,590J	µg/L	1,620J	µg/L
Selenium	5	µg/L	4.5U	µg/L	4.5U	µg/L	4.5U	µg/L
Silver	0.06	µg/L	0.05U	µg/L	0.05U	µg/L	0.05U	µg/L
Sodium	680,000	µg/L	4,530J	µg/L	4,480J	µg/L	4,390J	µg/L
Thallium	0.24	µg/L	0.2U	µg/L	0.2U	µg/L	0.2U	µg/L
Vanadium	27	µg/L	2.27J	µg/L	2.3J	µg/L	3.06J	µg/L
Zinc	39	µg/L	4.2J	µg/L	7.06J	µg/L	8J	µg/L
<b>Anions</b>								
Bromide	-	-	1U	mg/L	1U	mg/L	1U	mg/L
Chloride	230	mg/L	8.25	mg/L	9.43	mg/L	8.63	mg/L
Sulfate	-	-	5.09	mg/L	5.06	mg/L	4.92	mg/L

## EDEN NORTH CAROLINA COAL ASH SPILL SURFACE WATER RESULTS

Analyte	Ecological Screening Standard for Surface Water Samples <sup>1</sup>		DRSS Boat Ramp		Hwy 700		Hwy 880	
<b>Sample Information</b>								
Sample ID	-		EDEN-DUKE-L-SW-20140312		EDEN-HW700-C-SW-20140312		EDEN-BHB-C-SW-20140312	
Date	-		03/12/2014		03/12/2014		03/12/2014	
Time	-		1312		1208		1143	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Type	-		Surface Water		Surface Water		Surface Water	
<b>Wet Chemistry</b>								
Alkalinity, Total (As CaCO <sub>3</sub> )	-	-	19.6	mg/L	16.9	mg/L	17.3	mg/L
Hardness, Calcium/Magnesium (As CaCO <sub>3</sub> )	-	-	27.8	mg/L	28.2	mg/L	28	mg/L
Organic Carbon, Dissolved	-	-	2.4	mg/L	2.2	mg/L	1.8	mg/L
pH	6.5 - 9.0		std	6.94J	std	6.92J	std	6.91J

Notes

<sup>1</sup> Value obtained from the GL Tier 2 Values; National Recommended Water Quality Criteria; Suter and Tsao (1996); Reference condition for EcoRegion XI (25 percentile); NCDENR State Standards for surface water

°C degrees Celsius

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

mS/cm milliSiemens per centimeter

NTU Nephelometric turbidity units

std standard

U Analyte was not detected at the listed reporting limit.

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

Analyte	Ecological Screening Standard for Surface Water Samples <sup>1</sup>		Abreu-Grogan Park Boat Dock		Hwy 58 Bridge		S Boston WTP	
<b>Sample Information</b>								
Sample ID	-		EDEN-DANIN-R-SW-20140312		EDEN-HW58-C-SW-20140312		EDEN-SBWTP-RAW-3-20140312	
Date	-		03/12/2014		03/12/2014		03/12/2014	
Time	-		1109		0928		0755	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Type	-		Surface Water		Surface Water		Surface Water	
<b>Water Quality Monitoring</b>								
Temperature	-		-	-	-	-	8.61	°C
Dissolved Oxygen	<6	mg/L	-	-	-	-	9	mg/L
Specific Conductance	-		-	-	-	-	0.091	mS/cm
pH	6.5 - 9.0	std	-	-	-	-	7.55	std
Turbidity	50	NTU	-	-	-	-	70	NTU
<b>Dissolved metals</b>								
Aluminum	87	µg/L	29.4U	µg/L	45.2	µg/L	67.6	µg/L
Antimony	5.6	µg/L	5U	µg/L	5U	µg/L	5U	µg/L
Arsenic	10	µg/L	0.176J	µg/L	0.135J	µg/L	0.179J	µg/L
Barium	220	µg/L	20	µg/L	20.5	µg/L	19.4	µg/L
Beryllium	0.66	µg/L	0.65U	µg/L	0.65U	µg/L	0.65U	µg/L
Boron	0.36	mg/L	0.113U	mg/L	0.0699U	mg/L	0.0562U	mg/L
Cadmium	0.1	µg/L	0.1U	µg/L	0.1U	µg/L	0.1U	µg/L
Calcium	-	-	6,010	µg/L	5,390	µg/L	5,300	µg/L
Chromium	25	µg/L	0.19J	µg/L	0.298J	µg/L	0.275J	µg/L
Cobalt	3	µg/L	0.154J	µg/L	0.212J	µg/L	5U	µg/L
Copper	3	µg/L	2U	µg/L	2U	µg/L	2U	µg/L
Iron	1,000	µg/L	316	µg/L	381	µg/L	839	µg/L
Lead	0.59	µg/L	0.137J	µg/L	0.215J	µg/L	0.261J	µg/L
Magnesium	-	-	2,480J	µg/L	2,310J	µg/L	2,200J	µg/L
Manganese	200	µg/L	9.53	µg/L	10.1	µg/L	6	µg/L
Mercury	0.000012	mg/L	0.0002U	mg/L	0.0002U	mg/L	0.0002U	mg/L
Molybdenum	800	µg/L	5U	µg/L	5U	µg/L	5U	µg/L
Nickel	17	µg/L	0.271J	µg/L	0.504J	µg/L	0.318J	µg/L
Potassium	53,000	µg/L	1,710J	µg/L	1,800J	µg/L	1,790J	µg/L
Selenium	5	µg/L	4.5U	µg/L	4.5U	µg/L	4.5U	µg/L
Silver	0.06	µg/L	0.05U	µg/L	0.05U	µg/L	0.05U	µg/L
Sodium	680,000	µg/L	4,450J	µg/L	5,210	µg/L	5,090	µg/L
Thallium	0.24	µg/L	0.2U	µg/L	0.2U	µg/L	0.2U	µg/L
Vanadium	27	µg/L	0.48J	µg/L	0.628J	µg/L	0.891J	µg/L
Zinc	39	µg/L	2.49J	µg/L	2.58J	µg/L	10U	µg/L

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

Analyte	Ecological Screening Standard for Surface Water Samples <sup>1</sup>		Abreu-Grogan Park Boat Dock		Hwy 58 Bridge		S Boston WTP	
<b>Sample Information</b>								
Sample ID	-		EDEN-DANIN-R-SW-20140312		EDEN-HW58-C-SW-20140312		EDEN-SBWTP-RAW-3-20140312	
Date	-		03/12/2014		03/12/2014		03/12/2014	
Time	-		1109		0928		0755	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Type	-		Surface Water		Surface Water		Surface Water	
<b>Total Dissolved Solids</b>								
Total Dissolved Solids	-	-	56	mg/L	33	mg/L	29	mg/L
<b>Total Suspended Solids</b>								
Total Suspended Solids	-	-	13.5	mg/L	27.5	mg/L	45.5	mg/L
<b>Total Metals</b>								
Aluminum	2,000	µg/L	756	µg/L	1,740	µg/L	1,090	µg/L
Antimony	5.6	µg/L	5U	µg/L	5U	µg/L	5U	µg/L
Arsenic	10	µg/L	4.5U	µg/L	4.5U	µg/L	0.407J	µg/L
Barium	220	µg/L	25.2	µg/L	34.5	µg/L	30.6	µg/L
Beryllium	0.66	µg/L	0.65U	µg/L	0.164J	µg/L	0.194J	µg/L
Boron	0.36	mg/L	0.122U	mg/L	0.0721U	mg/L	0.0924U	mg/L
Cadmium	2	µg/L	0.1U	µg/L	0.1U	µg/L	0.1U	µg/L
Calcium	-	-	6,400	µg/L	5,700	µg/L	5,790	µg/L
Chromium	29	µg/L	1.51J	µg/L	3.52	µg/L	2.65U	µg/L
Cobalt	24	µg/L	0.453J	µg/L	1.04J	µg/L	0.997J	µg/L
Copper	3	µg/L	1.94J	µg/L	3.04	µg/L	1.83J	µg/L
Iron	2,300	µg/L	1,880	µg/L	3,530	µg/L	3,990	µg/L
Lead	0.6	µg/L	0.744	µg/L	1.61	µg/L	1.67	µg/L
Magnesium	-	-	2,650J	µg/L	2,540J	µg/L	2,480J	µg/L
Manganese	200	µg/L	26.1J-	µg/L	71.5J-	µg/L	67.5	µg/L
Mercury	0.000012	mg/L	0.0002U	mg/L	0.0002U	mg/L	0.0002U	mg/L
Molybdenum	-	-	5U	µg/L	5U	µg/L	5U	µg/L
Nickel	17	µg/L	0.82J	µg/L	1.83J	µg/L	5U	µg/L
Potassium	53,000	µg/L	1,700J	µg/L	1,820J	µg/L	1,870J	µg/L
Selenium	5	µg/L	4.5U	µg/L	4.5U	µg/L	4.5U	µg/L
Silver	0.06	µg/L	0.05U	µg/L	0.05U	µg/L	0.0202J	µg/L
Sodium	680,000	µg/L	4,660J	µg/L	5,380	µg/L	5,280	µg/L
Thallium	0.24	µg/L	0.2U	µg/L	0.2U	µg/L	0.2U	µg/L
Vanadium	27	µg/L	3.08J	µg/L	6.85	µg/L	5.69	µg/L
Zinc	39	µg/L	4.99J	µg/L	7.55J	µg/L	10.8U	µg/L
<b>Anions</b>								
Bromide	-	-	1U	mg/L	1U	mg/L	1U	mg/L
Chloride	230	mg/L	8.37	mg/L	7.95	mg/L	7.9	mg/L
Sulfate	-	-	4.85	mg/L	5.29	mg/L	5.26	mg/L

## EDEN NORTH CAROLINA COAL ASH SPILL SURFACE WATER RESULTS

Analyte	Ecological Screening Standard for Surface Water Samples <sup>1</sup>	Abreu-Grogan Park Boat Dock	Hwy 58 Bridge	S Boston WTP	
<b>Sample Information</b>					
Sample ID	-	EDEN-DANIN-R-SW-20140312	EDEN-HW58-C-SW-20140312	EDEN-SBWTP-RAW-3-20140312	
Date	-	03/12/2014	03/12/2014	03/12/2014	
Time	-	1109	0928	0755	
Status	-	Validation Complete	Validation Complete	Validation Complete	
Type	-	Surface Water	Surface Water	Surface Water	
<b>Wet Chemistry</b>					
Alkalinity, Total (As CaCO <sub>3</sub> )	-	-	16.5 mg/L	14 mg/L	8.6J mg/L
Hardness, Calcium/Magnesium (As CaCO <sub>3</sub> )	-	-	26.9 mg/L	24.7 mg/L	24.7 mg/L
Organic Carbon, Dissolved	-	-	2.7 mg/L	3.4 mg/L	3.40 mg/L
pH	6.5 - 9.0	std	7.02J std	6.91J std	7.33J std

Notes

- <sup>1</sup> Value obtained from the GL Tier 2 Values; National Recommended Water Quality Criteria; Suter and Tsao (1996); Reference condition for EcoRegion XI (25 percentile); NCDENR State Standards for surface water
- °C degrees Celsius
- 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
- mS/cm milliSiemens per centimeter
- NTU Nephelometric turbidity units
- std standard
- U Analyte was not detected at the listed reporting limit.

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

Analyte	Ecological Screening Standard for Surface Water Samples <sup>1</sup>		Hwy 360 Bridge		Clarksville WTP	
<b>Sample Information</b>						
Sample ID	-		EDEN-HW360-C-SW-20140312		EDEN-CWTP-RAW-1-20140312	
Date	-		03/12/2014		03/12/2014	
Time	-		1007		1800	
Status	-		Validation Complete		Validation Complete	
Type	-		Surface Water		Surface Water	
<b>Water Quality Monitoring</b>						
Temperature	-		-	-	-	-
Dissolved Oxygen	<6	mg/L	-	-	-	-
Specific Conductance	-		-	-	-	-
pH	6.5 - 9.0	std	-	-	-	-
Turbidity	50	NTU	-	-	-	-
<b>Dissolved metals</b>						
Aluminum	87	µg/L	46.3	µg/L	-	-
Antimony	5.6	µg/L	5U	µg/L	-	-
Arsenic	10	µg/L	0.146J	µg/L	-	-
Barium	220	µg/L	20.2	µg/L	-	-
Beryllium	0.66	µg/L	0.65U	µg/L	-	-
Boron	0.36	mg/L	0.064U	mg/L	-	-
Cadmium	0.1	µg/L	0.1U	µg/L	-	-
Calcium	-	-	5,320	µg/L	-	-
Chromium	25	µg/L	0.208J	µg/L	-	-
Cobalt	3	µg/L	0.174J	µg/L	-	-
Copper	3	µg/L	2U	µg/L	-	-
Iron	1,000	µg/L	482	µg/L	-	-
Lead	0.59	µg/L	0.228J	µg/L	-	-
Magnesium	-	-	2,230J	µg/L	-	-
Manganese	200	µg/L	6.4	µg/L	-	-
Mercury	0.000012	mg/L	0.0002U	mg/L	-	-
Molybdenum	800	µg/L	5U	µg/L	-	-
Nickel	17	µg/L	0.291J	µg/L	-	-
Potassium	53,000	µg/L	1,800J	µg/L	-	-
Selenium	5	µg/L	4.5U	µg/L	-	-
Silver	0.06	µg/L	0.05U	µg/L	-	-
Sodium	680,000	µg/L	5,220	µg/L	-	-
Thallium	0.24	µg/L	0.2U	µg/L	-	-
Vanadium	27	µg/L	0.73J	µg/L	-	-
Zinc	39	µg/L	10U	µg/L	-	-

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

Analyte	Ecological Screening Standard for Surface Water Samples <sup>1</sup>		Hwy 360 Bridge		Clarksville WTP	
<b>Sample Information</b>						
Sample ID	-		EDEN-HW360-C-SW-20140312		EDEN-CWTP-RAW-1-20140312	
Date	-		03/12/2014		03/12/2014	
Time	-		1007		1800	
Status	-		Validation Complete		Validation Complete	
Type	-		Surface Water		Surface Water	
<b>Total Dissolved Solids</b>						
Total Dissolved Solids	-	-	51	mg/L	-	-
<b>Total Suspended Solids</b>						
Total Suspended Solids	-	-	54	mg/L	-	-
<b>Total Metals</b>						
Aluminum	2,000	µg/L	4,180	µg/L	998	µg/L
Antimony	5.6	µg/L	5U	µg/L	5U	µg/L
Arsenic	10	µg/L	4.5U	µg/L	0.459J	µg/L
Barium	220	µg/L	36.7	µg/L	30.1	µg/L
Beryllium	0.66	µg/L	0.237J	µg/L	0.65U	µg/L
Boron	0.36	mg/L	0.0623U	mg/L	0.125U	mg/L
Cadmium	2	µg/L	0.1U	µg/L	0.1U	µg/L
Calcium	-	-	5,370	µg/L	8,810	µg/L
Chromium	29	µg/L	4.54	µg/L	2.5U	µg/L
Cobalt	24	µg/L	1.42J	µg/L	0.627J	µg/L
Copper	3	µg/L	3.82	µg/L	2.79	µg/L
Iron	2,300	µg/L	1,230	µg/L	2,560	µg/L
Lead	0.6	µg/L	2.11	µg/L	1.05	µg/L
Magnesium	-	-	2,280J	µg/L	3,600J	µg/L
Manganese	200	µg/L	80.3J-	µg/L	50.9	µg/L
Mercury	0.000012	mg/L	0.0002U	mg/L	0.0002U	mg/L
Molybdenum	-	-	5U	µg/L	5U	µg/L
Nickel	17	µg/L	2.56J	µg/L	0.997J	µg/L
Potassium	53,000	µg/L	1,780J	µg/L	1,870J	µg/L
Selenium	5	µg/L	4.5U	µg/L	4.5U	µg/L
Silver	0.06	µg/L	0.05U	µg/L	0.05U	µg/L
Sodium	680,000	µg/L	5,440	µg/L	6,240	µg/L
Thallium	0.24	µg/L	0.2U	µg/L	0.2U	µg/L
Vanadium	27	µg/L	9.46	µg/L	4.01J	µg/L
Zinc	39	µg/L	25.4	µg/L	10U	µg/L
<b>Anions</b>						
Bromide	-	-	1U	mg/L	-	-
Chloride	230	mg/L	7.97	mg/L	-	-
Sulfate	-	-	5.24	mg/L	-	-



## EDEN NORTH CAROLINA COAL ASH SPILL SURFACE WATER RESULTS

Analyte	Ecological Screening Standard for Surface Water Samples <sup>1</sup>		Hwy 360 Bridge		Clarksville WTP	
<b>Sample Information</b>						
Sample ID	-		EDEN-HW360-C-SW-20140312		EDEN-CWTP-RAW-1-20140312	
Date	-		03/12/2014		03/12/2014	
Time	-		1007		1800	
Status	-		Validation Complete		Validation Complete	
Type	-		Surface Water		Surface Water	
<b>Wet Chemistry</b>						
Alkalinity, Total (As CaCO <sub>3</sub> )	-	-	12.8	mg/L	-	-
Hardness, Calcium/Magnesium (As CaCO <sub>3</sub> )	-	-	22.8	mg/L	-	-
Organic Carbon, Dissolved	-	-	3.8	mg/L	-	-
pH	6.5 - 9.0	std	6.86J	std	-	-

Notes

<sup>1</sup> Value obtained from the GL Tier 2 Values; National Recommended Water Quality Criteria; Suter and Tsao (1996); Reference condition for EcoRegion XI (25 percentile); NCDENR State Standards for surface water

°C degrees Celsius

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

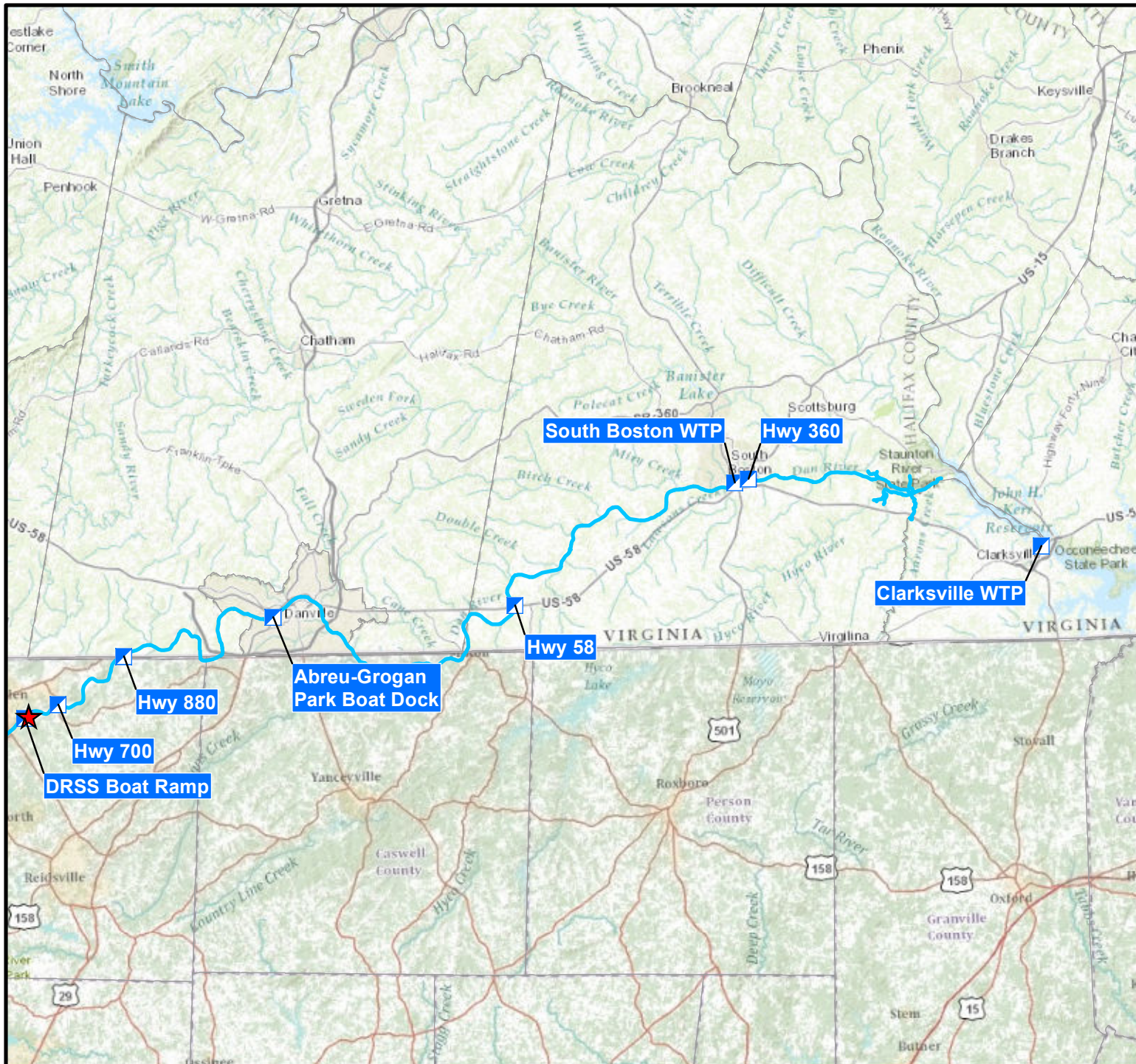
mg/L milligrams per liter

mS/cm milliSiemens per centimeter

NTU Nephelometric turbidity units

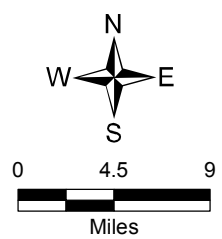
std standard

U Analyte was not detected at the listed reporting limit.



**Legend**

- ★ Approximate Spill Location
- Surface Water Sample Location
- Dan River



Map Source: ArcGIS Online World Map Topo, 2014

**Surface Water  
Sample Locations  
March 12, 2014**

