

EDEN NORTH CAROLINA COAL ASH SPILL SEDIMENT-WATER INTERFACE RESULTS

NOTE: The data below represents sediment-water interface samples that were collected on June 3, 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 sediment-water interface are all below the EPA ERSLs with the exception of lead. 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 ¹		Transect EPA 04 Left Descending		Transect EPA 05 Left Descending		Transect EPA 05 Left Descending	
Sample Information								
Sample ID	-		EDEN-EPA04-L-BW-20140603		EDEN-EPA05-L-BW-20140603		EDEN-EPA05-L-BW-20140603-DUP	
Date	-		6/3/2014		6/3/2014		6/3/2014	
Time	-		1540		1620		1625	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Type	-		Sediment-Water Interface		Sediment-Water Interface		Sediment-Water Interface	
Dissolved metals								
Aluminum	87	µg/L	17	µg/L	17	µg/L	20	µg/L
Antimony	5.6	µg/L	1U	µg/L	1U	µg/L	1U	µg/L
Arsenic	10	µg/L	0.45J	µg/L	0.44J	µg/L	0.44J	µg/L
Barium	220	µg/L	19	µg/L	18	µg/L	19	µg/L
Beryllium	0.66	µg/L	0.4U	µg/L	0.4U	µg/L	0.4U	µg/L
Boron	0.36	mg/L	0.12J-	mg/L	0.13J-	mg/L	0.13J-	mg/L
Cadmium	0.1	µg/L	0.1U	µg/L	0.1U	µg/L	0.1U	µg/L
Calcium	-	-	7,600J+	µg/L	7,700J+	µg/L	7,800J+	µg/L
Chromium	25	µg/L	2U	µg/L	2U	µg/L	2U	µg/L
Cobalt	3	µg/L	0.4U	µg/L	0.4U	µg/L	0.4U	µg/L
Copper	3	µg/L	1U	µg/L	1U	µg/L	1U	µg/L
Iron	1,000	µg/L	130	µg/L	110	µg/L	140	µg/L
Lead	0.59	µg/L	0.3U	µg/L	0.06J	µg/L	0.064J	µg/L
Magnesium	-	-	2,800J+	µg/L	2,800J+	µg/L	2,900J+	µg/L
Manganese	200	µg/L	2.5U	µg/L	2.5U	µg/L	2.5U	µg/L
Mercury	0.000012	mg/L	0.0002U	mg/L	0.0002U	mg/L	0.0002U	mg/L
Molybdenum	800	µg/L	1U	µg/L	0.51J	µg/L	0.47J	µg/L
Nickel	17	µg/L	1U	µg/L	1U	µg/L	0.4J	µg/L
Potassium	53,000	µg/L	1,600J+	µg/L	1,700J+	µg/L	1,700J+	µg/L
Selenium	5	µg/L	2U	µg/L	2U	µg/L	2U	µg/L
Silver	0.06	µg/L	1U	µg/L	1U	µg/L	1U	µg/L
Sodium	680,000	µg/L	4,900J+	µg/L	5,200J+	µg/L	5,200J+	µg/L
Thallium	0.24	µg/L	0.2U	µg/L	0.2U	µg/L	0.2U	µg/L
Vanadium	27	µg/L	1.2	µg/L	1.2	µg/L	1.4	µg/L
Zinc	39	µg/L	20U	µg/L	20U	µg/L	20U	µg/L
Total Dissolved Solids								
Total Dissolved Solids	-	-	69	mg/L	75	mg/L	86	mg/L
Total Suspended Solids								
Total Suspended Solids	-	-	11J	mg/L	41J	mg/L	30J	mg/L

**EDEN NORTH CAROLINA COAL ASH SPILL
SEDIMENT-WATER INTERFACE RESULTS**

Analyte	Ecological Screening Standard for Surface Water Samples ¹		Transect EPA 04 Left Descending		Transect EPA 05 Left Descending		Transect EPA 05 Left Descending	
Sample Information								
Sample ID	-		EDEN-EPA04-L-BW-20140603		EDEN-EPA05-L-BW-20140603		EDEN-EPA05-L-BW-20140603-DUP	
Date	-		6/3/2014		6/3/2014		6/3/2014	
Time	-		1540		1620		1625	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Type	-		Sediment-Water Interface		Sediment-Water Interface		Sediment-Water Interface	
Total Metals								
Aluminum	2,000	µg/L	110	µg/L	130	µg/L	120	µg/L
Antimony	5.6	µg/L	1U	µg/L	1U	µg/L	1U	µg/L
Arsenic	10	µg/L	0.77J	µg/L	0.61J	µg/L	0.61J	µg/L
Barium	220	µg/L	23	µg/L	24	µg/L	23	µg/L
Beryllium	0.66	µg/L	0.4U	µg/L	0.4U	µg/L	0.4U	µg/L
Boron	0.36	mg/L	0.13	mg/L	0.13	mg/L	0.13	mg/L
Cadmium	2	µg/L	0.1U	µg/L	0.1U	µg/L	0.1U	µg/L
Calcium	-	-	8000	µg/L	8100	µg/L	7900	µg/L
Chromium	29	µg/L	1.4J	µg/L	1.1J	µg/L	1.3J	µg/L
Cobalt	24	µg/L	0.27J	µg/L	0.41	µg/L	0.34J	µg/L
Copper	3	µg/L	0.55J	µg/L	0.75J	µg/L	0.59J	µg/L
Iron	2,300	µg/L	470	µg/L	600	µg/L	530	µg/L
Lead	0.6	µg/L	0.36	µg/L	0.73	µg/L	0.56	µg/L
Magnesium	-	-	3000	µg/L	3000	µg/L	2900	µg/L
Manganese	200	µg/L	54	µg/L	72	µg/L	58	µg/L
Mercury	0.000012	mg/L	0.0002U	mg/L	0.0002U	mg/L	0.0002U	mg/L
Molybdenum	-	-	1U	µg/L	1U	µg/L	1U	µg/L
Nickel	17	µg/L	1U	µg/L	0.4J	µg/L	0.48J	µg/L
Potassium	53,000	µg/L	1700	µg/L	1800	µg/L	1700	µg/L
Selenium	5	µg/L	2U	µg/L	2U	µg/L	2U	µg/L
Silver	0.06	µg/L	1U	µg/L	1U	µg/L	1U	µg/L
Sodium	680,000	µg/L	5100	µg/L	5300	µg/L	5200	µg/L
Thallium	0.24	µg/L	0.2U	µg/L	0.2U	µg/L	0.2U	µg/L
Vanadium	27	µg/L	2	µg/L	2.3	µg/L	2.2	µg/L
Zinc	39	µg/L	20U	µg/L	20U	µg/L	20U	µg/L
Anions								
Bromide	-	-	72	µg/L	72	µg/L	73	µg/L
Chloride	230	mg/L	8.9	mg/L	9.2	mg/L	9.2	mg/L
Sulfate	-	-	5	mg/L	5.1	mg/L	5.1	mg/L

EDEN NORTH CAROLINA COAL ASH SPILL SEDIMENT-WATER INTERFACE RESULTS

Analyte	Ecological Screening Standard for Surface Water Samples ¹		Transect EPA 04 Left Descending		Transect EPA 05 Left Descending		Transect EPA 05 Left Descending	
Sample Information								
Sample ID	-		EDEN-EPA04-L-BW-20140603		EDEN-EPA05-L-BW-20140603		EDEN-EPA05-L-BW-20140603-DUP	
Date	-		6/3/2014		6/3/2014		6/3/2014	
Time	-		1540		1620		1625	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Type	-		Sediment-Water Interface		Sediment-Water Interface		Sediment-Water Interface	
Wet Chemistry								
Alkalinity, Total (As CaCO ₃)	-	-	25	mg/L	24	mg/L	29	mg/L
Hardness, Calcium/Magnesium (As CaCO ₃)	-	-	32	mg/L	33	mg/L	32	mg/L
Organic Carbon, Dissolved	-	-	1.1	mg/L	1.1	mg/L	1.1	mg/L
pH	6.5 - 9.0		SU	7.35J	SU	7.54J	SU	7.45J

Notes

¹ 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

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

SU standard units

U Analyte was not detected at the listed reporting limit.

**EDEN NORTH CAROLINA COAL ASH SPILL
SEDIMENT-WATER INTERFACE RESULTS**

Analyte	Ecological Screening Standard for Surface Water Samples ¹		Transect DUKE DRB Left Descending		Transect DUKE DRE Left Descending		Transect EPA 12 Right Descending	
Sample Information								
Sample ID	-		EDEN-DUKEDRB-L-BW-20140603		EDEN-DUKEDRE-L-BW-20140603		EDEN-EPA12-R-BW-20140603	
Date	-		6/3/2014		6/3/2014		6/3/2014	
Time	-		1040		1150		1220	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Type	-		Sediment-Water Interface		Sediment-Water Interface		Sediment-Water Interface	
Dissolved metals								
Aluminum	87	µg/L	14	µg/L	11	µg/L	25	µg/L
Antimony	5.6	µg/L	0.71J	µg/L	1U	µg/L	1U	µg/L
Arsenic	10	µg/L	0.5J	µg/L	0.52J	µg/L	0.47J	µg/L
Barium	220	µg/L	22	µg/L	21	µg/L	24	µg/L
Beryllium	0.66	µg/L	0.4U	µg/L	0.4U	µg/L	0.4U	µg/L
Boron	0.36	mg/L	0.14J-	mg/L	0.14J-	mg/L	0.12J-	mg/L
Cadmium	0.1	µg/L	0.1U	µg/L	0.1U	µg/L	0.1U	µg/L
Calcium	-	-	8,200J+	µg/L	8,000J+	µg/L	7,800J+	µg/L
Chromium	25	µg/L	2U	µg/L	1.1J	µg/L	1.2J	µg/L
Cobalt	3	µg/L	0.4U	µg/L	0.4U	µg/L	0.4U	µg/L
Copper	3	µg/L	1U	µg/L	1U	µg/L	1U	µg/L
Iron	1,000	µg/L	110	µg/L	100	µg/L	140	µg/L
Lead	0.59	µg/L	0.3U	µg/L	0.3U	µg/L	0.064J	µg/L
Magnesium	-	-	3,000J+	µg/L	3,000J+	µg/L	2,900J+	µg/L
Manganese	200	µg/L	2.5U	µg/L	2.5U	µg/L	2.5U	µg/L
Mercury	0.000012	mg/L	0.0002U	mg/L	0.0002U	mg/L	0.0002U	mg/L
Molybdenum	800	µg/L	0.48J	µg/L	1U	µg/L	0.56J	µg/L
Nickel	17	µg/L	0.58J	µg/L	1U	µg/L	0.47J	µg/L
Potassium	53,000	µg/L	2,400J+	µg/L	2,000J+	µg/L	2,000J+	µg/L
Selenium	5	µg/L	2U	µg/L	2U	µg/L	2U	µg/L
Silver	0.06	µg/L	1U	µg/L	1U	µg/L	1U	µg/L
Sodium	680,000	µg/L	18,000J+	µg/L	12,000J+	µg/L	9,800J+	µg/L
Thallium	0.24	µg/L	0.2U	µg/L	0.2U	µg/L	0.2U	µg/L
Vanadium	27	µg/L	1.1	µg/L	0.91J	µg/L	1.2	µg/L
Zinc	39	µg/L	20U	µg/L	20U	µg/L	20U	µg/L
Total Dissolved Solids								
Total Dissolved Solids	-	-	110	mg/L	86	mg/L	83	mg/L
Total Suspended Solids								
Total Suspended Solids	-	-	39J	mg/L	9J	mg/L	13J	mg/L

**EDEN NORTH CAROLINA COAL ASH SPILL
SEDIMENT-WATER INTERFACE RESULTS**

Analyte	Ecological Screening Standard for Surface Water Samples ¹		Transect DUKE DRB Left Descending		Transect DUKE DRE Left Descending		Transect EPA 12 Right Descending	
Sample Information								
Sample ID	-		EDEN-DUKEDRB-L-BW-20140603		EDEN-DUKEDRE-L-BW-20140603		EDEN-EPA12-R-BW-20140603	
Date	-		6/3/2014		6/3/2014		6/3/2014	
Time	-		1040		1150		1220	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Type	-		Sediment-Water Interface		Sediment-Water Interface		Sediment-Water Interface	
Total Metals								
Aluminum	2,000	µg/L	110	µg/L	82	µg/L	72	µg/L
Antimony	5.6	µg/L	0.75J	µg/L	1U	µg/L	1U	µg/L
Arsenic	10	µg/L	0.67J	µg/L	0.58J	µg/L	1U	µg/L
Barium	220	µg/L	26	µg/L	26	µg/L	27	µg/L
Beryllium	0.66	µg/L	0.4U	µg/L	0.4U	µg/L	0.4U	µg/L
Boron	0.36	mg/L	0.14	mg/L	0.14	mg/L	0.12	mg/L
Cadmium	2	µg/L	0.1U	µg/L	0.1U	µg/L	0.1U	µg/L
Calcium	-	-	8600	µg/L	8400	µg/L	7900	µg/L
Chromium	29	µg/L	2U	µg/L	2U	µg/L	2U	µg/L
Cobalt	24	µg/L	0.28J	µg/L	0.21J	µg/L	0.22J	µg/L
Copper	3	µg/L	0.54J	µg/L	1U	µg/L	1U	µg/L
Iron	2,300	µg/L	450	µg/L	420	µg/L	390	µg/L
Lead	0.6	µg/L	0.41	µg/L	0.26J	µg/L	0.28J	µg/L
Magnesium	-	-	3200	µg/L	3100	µg/L	3000	µg/L
Manganese	200	µg/L	47	µg/L	43	µg/L	53	µg/L
Mercury	0.000012	mg/L	0.0002U	mg/L	0.0002U	mg/L	0.0002U	mg/L
Molybdenum	-	-	0.48J	µg/L	0.46J	µg/L	1U	µg/L
Nickel	17	µg/L	0.57J	µg/L	0.45J	µg/L	0.44J	µg/L
Potassium	53,000	µg/L	2500	µg/L	2100	µg/L	2100	µg/L
Selenium	5	µg/L	2U	µg/L	2U	µg/L	2U	µg/L
Silver	0.06	µg/L	1U	µg/L	1U	µg/L	1U	µg/L
Sodium	680,000	µg/L	19000	µg/L	12000	µg/L	10000	µg/L
Thallium	0.24	µg/L	0.2U	µg/L	0.2U	µg/L	0.2U	µg/L
Vanadium	27	µg/L	1.6	µg/L	1.5	µg/L	1.6	µg/L
Zinc	39	µg/L	20U	µg/L	20U	µg/L	20U	µg/L
Anions								
Bromide	-	-	320	µg/L	210	µg/L	160	µg/L
Chloride	230	mg/L	30	mg/L	20	mg/L	16	mg/L
Sulfate	-	-	6.6	mg/L	6	mg/L	5.9	mg/L

EDEN NORTH CAROLINA COAL ASH SPILL SEDIMENT-WATER INTERFACE RESULTS

Analyte	Ecological Screening Standard for Surface Water Samples ¹		Transect DUKE DRB Left Descending		Transect DUKE DRE Left Descending		Transect EPA 12 Right Descending	
Sample Information								
Sample ID	-		EDEN-DUKEDRB-L-BW-20140603		EDEN-DUKEDRE-L-BW-20140603		EDEN-EPA12-R-BW-20140603	
Date	-		6/3/2014		6/3/2014		6/3/2014	
Time	-		1040		1150		1220	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Type	-		Sediment-Water Interface		Sediment-Water Interface		Sediment-Water Interface	
Wet Chemistry								
Alkalinity, Total (As CaCO ₃)	-	-	26	mg/L	27	mg/L	26	mg/L
Hardness, Calcium/Magnesium (As CaCO ₃)	-	-	34	mg/L	34	mg/L	32	mg/L
Organic Carbon, Dissolved	-	-	1.2	mg/L	1.2	mg/L	1.3	mg/L
pH	6.5 - 9.0		SU	7.53J	SU	7.48J	SU	7.4J

Notes

¹ 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

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

SU standard units

U Analyte was not detected at the listed reporting limit.

**EDEN NORTH CAROLINA COAL ASH SPILL
SEDIMENT-WATER INTERFACE RESULTS**

Analyte	Ecological Screening Standard for Surface Water Samples ¹		Transect EPA 13 Left Descending		Transect EPA 14 Right Descending (upstream)		Transect EPA 15 Left Descending	
Sample Information								
Sample ID	-		EDEN-EPA13-L-BW-20140603		EDEN-EPA14-R-UP-BW-20140603		EDEN-EPA15-L-BW-20140603	
Date	-		6/3/2014		6/3/2014		6/3/2014	
Time	-		905		1015		1445	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Type	-		Sediment-Water Interface		Sediment-Water Interface		Sediment-Water Interface	
Dissolved metals								
Aluminum	87	µg/L	23	µg/L	19	µg/L	11	µg/L
Antimony	5.6	µg/L	1U	µg/L	1U	µg/L	1U	µg/L
Arsenic	10	µg/L	0.43J	µg/L	0.37J	µg/L	0.4J	µg/L
Barium	220	µg/L	30	µg/L	18	µg/L	25	µg/L
Beryllium	0.66	µg/L	0.4U	µg/L	0.4U	µg/L	0.4U	µg/L
Boron	0.36	mg/L	0.1UJ	mg/L	0.13J-	mg/L	0.088J-	mg/L
Cadmium	0.1	µg/L	0.1U	µg/L	0.1U	µg/L	0.1U	µg/L
Calcium	-	-	12,000J+	µg/L	7,800J+	µg/L	8,500J+	µg/L
Chromium	25	µg/L	2U	µg/L	2U	µg/L	2U	µg/L
Cobalt	3	µg/L	0.4U	µg/L	0.4U	µg/L	0.4U	µg/L
Copper	3	µg/L	1U	µg/L	1U	µg/L	0.59J	µg/L
Iron	1,000	µg/L	100	µg/L	140	µg/L	52	µg/L
Lead	0.59	µg/L	0.3U	µg/L	0.061J	µg/L	0.3U	µg/L
Magnesium	-	-	4,800J+	µg/L	2,900J+	µg/L	3,300J+	µg/L
Manganese	200	µg/L	2.5U	µg/L	2.5U	µg/L	2.5U	µg/L
Mercury	0.000012	mg/L	0.0002U	mg/L	0.0002U	mg/L	0.0002U	mg/L
Molybdenum	800	µg/L	1U	µg/L	0.48J	µg/L	0.52J	µg/L
Nickel	17	µg/L	0.43J	µg/L	1U	µg/L	0.48J	µg/L
Potassium	53,000	µg/L	2,200J+	µg/L	1,700J+	µg/L	2,100J+	µg/L
Selenium	5	µg/L	2U	µg/L	2U	µg/L	2U	µg/L
Silver	0.06	µg/L	1U	µg/L	1U	µg/L	1U	µg/L
Sodium	680,000	µg/L	6,100J+	µg/L	5,200J+	µg/L	5,000J+	µg/L
Thallium	0.24	µg/L	0.2U	µg/L	0.2U	µg/L	0.2U	µg/L
Vanadium	27	µg/L	0.86J	µg/L	1.4	µg/L	0.89J	µg/L
Zinc	39	µg/L	20U	µg/L	20U	µg/L	20U	µg/L
Total Dissolved Solids								
Total Dissolved Solids	-	-	87	mg/L	81	mg/L	73	mg/L
Total Suspended Solids								
Total Suspended Solids	-	-	29J	mg/L	13J	mg/L	9J	mg/L

**EDEN NORTH CAROLINA COAL ASH SPILL
SEDIMENT-WATER INTERFACE RESULTS**

Analyte	Ecological Screening Standard for Surface Water Samples ¹		Transect EPA 13 Left Descending		Transect EPA 14 Right Descending (upstream)		Transect EPA 15 Left Descending	
Sample Information								
Sample ID	-		EDEN-EPA13-L-BW-20140603		EDEN-EPA14-R-UP-BW-20140603		EDEN-EPA15-L-BW-20140603	
Date	-		6/3/2014		6/3/2014		6/3/2014	
Time	-		905		1015		1445	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Type	-		Sediment-Water Interface		Sediment-Water Interface		Sediment-Water Interface	
Total Metals								
Aluminum	2,000	µg/L	120	µg/L	92	µg/L	52	µg/L
Antimony	5.6	µg/L	1U	µg/L	1U	µg/L	1U	µg/L
Arsenic	10	µg/L	0.54J	µg/L	1U	µg/L	0.63J	µg/L
Barium	220	µg/L	39	µg/L	31	µg/L	29	µg/L
Beryllium	0.66	µg/L	0.4U	µg/L	0.4U	µg/L	0.4U	µg/L
Boron	0.36	mg/L	0.04J	mg/L	0.092J	mg/L	0.093J	mg/L
Cadmium	2	µg/L	0.1U	µg/L	0.1U	µg/L	0.12J+	µg/L
Calcium	-	-	13000	µg/L	10000	µg/L	9000	µg/L
Chromium	29	µg/L	2U	µg/L	2U	µg/L	2U	µg/L
Cobalt	24	µg/L	0.56	µg/L	0.32J	µg/L	0.12J	µg/L
Copper	3	µg/L	0.72J	µg/L	0.5J	µg/L	0.93J	µg/L
Iron	2,300	µg/L	640	µg/L	410	µg/L	170	µg/L
Lead	0.6	µg/L	0.56	µg/L	0.29J	µg/L	0.13J	µg/L
Magnesium	-	-	5000	µg/L	3900	µg/L	3500	µg/L
Manganese	200	µg/L	170	µg/L	120	µg/L	30	µg/L
Mercury	0.000012	mg/L	0.0002U	mg/L	0.0002U	mg/L	0.0002U	mg/L
Molybdenum	-	-	0.61J	µg/L	1U	µg/L	0.6J	µg/L
Nickel	17	µg/L	0.63J	µg/L	0.42J	µg/L	0.52J	µg/L
Potassium	53,000	µg/L	2300	µg/L	2100	µg/L	2300	µg/L
Selenium	5	µg/L	2U	µg/L	2U	µg/L	2U	µg/L
Silver	0.06	µg/L	1U	µg/L	1U	µg/L	1U	µg/L
Sodium	680,000	µg/L	6300	µg/L	6800	µg/L	5000	µg/L
Thallium	0.24	µg/L	0.2U	µg/L	0.2U	µg/L	0.2U	µg/L
Vanadium	27	µg/L	2	µg/L	1.4	µg/L	1.1	µg/L
Zinc	39	µg/L	20U	µg/L	20U	µg/L	20U	µg/L
Anions								
Bromide	-	-	42	µg/L	100	µg/L	70	µg/L
Chloride	230	mg/L	9.2	mg/L	12	mg/L	9.1	mg/L
Sulfate	-	-	7.4	mg/L	6.8	mg/L	6.6	mg/L

EDEN NORTH CAROLINA COAL ASH SPILL SEDIMENT-WATER INTERFACE RESULTS

Analyte	Ecological Screening Standard for Surface Water Samples ¹		Transect EPA 13 Left Descending		Transect EPA 14 Right Descending (upstream)		Transect EPA 15 Left Descending	
Sample Information								
Sample ID	-		EDEN-EPA13-L-BW-20140603		EDEN-EPA14-R-UP-BW-20140603		EDEN-EPA15-L-BW-20140603	
Date	-		6/3/2014		6/3/2014		6/3/2014	
Time	-		905		1015		1445	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Type	-		Sediment-Water Interface		Sediment-Water Interface		Sediment-Water Interface	
Wet Chemistry								
Alkalinity, Total (As CaCO ₃)	-	-	43	mg/L	35	mg/L	29	mg/L
Hardness, Calcium/Magnesium (As CaCO ₃)	-	-	52	mg/L	41	mg/L	37	mg/L
Organic Carbon, Dissolved	-	-	1.7	mg/L	1.9	mg/L	4	mg/L
pH	6.5 - 9.0		SU	7.36J	SU	7.49J	SU	7.46J

Notes

¹ 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

EPA U.S. Environmental Protection Agency

J Value is estimated

J+ Value is estimated with a possible high bias

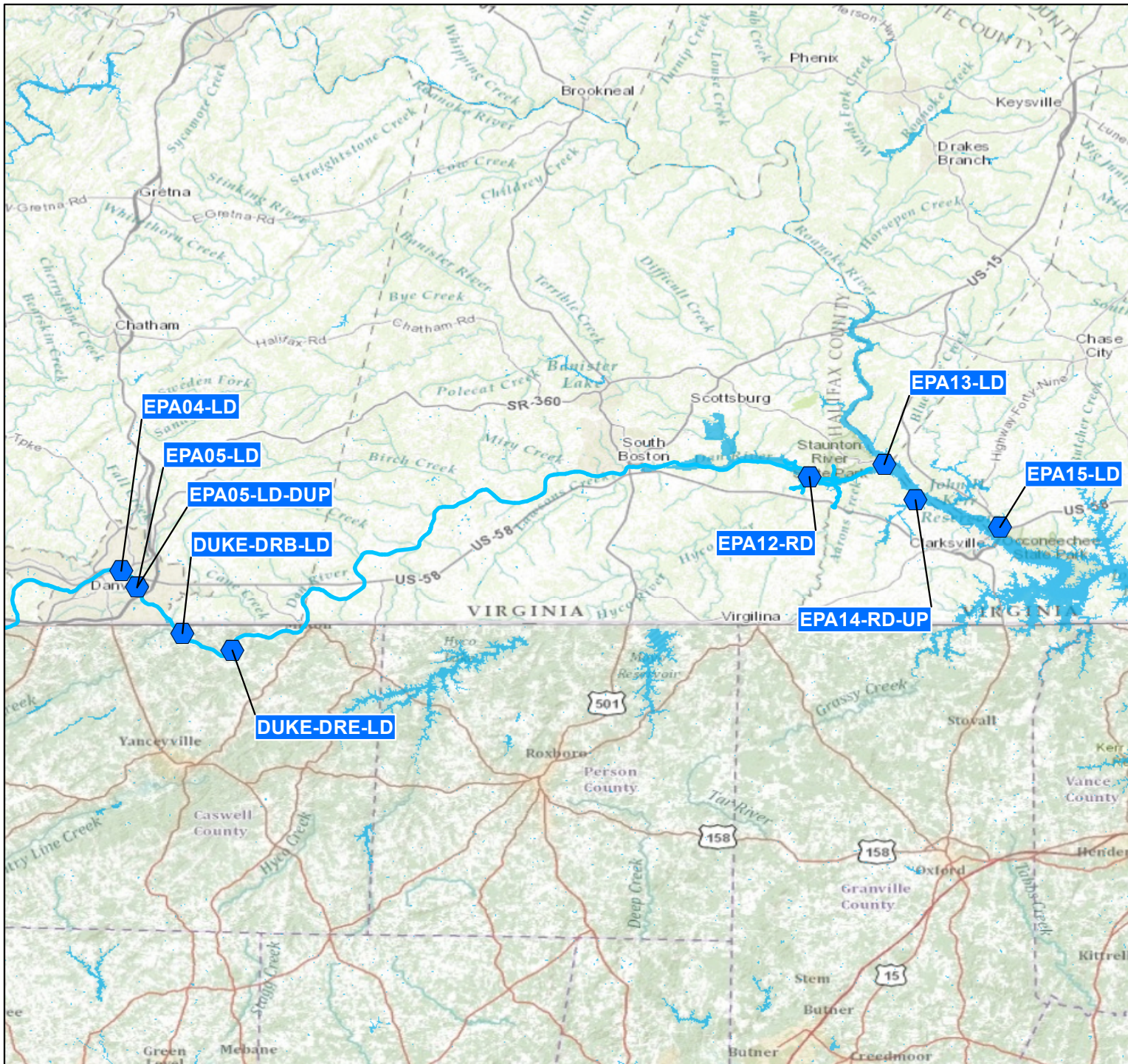
J- Value is estimated with a possible low bias

µg/L micrograms per liter

mg/L milligrams per liter

SU standard units

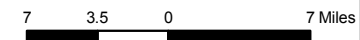
U Analyte was not detected at the listed reporting limit.



Legend

-  Sediment-Water Interface Sample Location

Imagery Source:
ESRI, USGS Mapping Service, 2013



Eden Coal Ash Spill
Eden, North Carolina

Sediment-Water Interface
Sample Locations
June 03, 2014

