

EDEN NORTH CAROLINA COAL ASH SPILL SURFACE WATER RESULTS

NOTE: The data below represents surface water samples that were collected on March 5, 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.

Analyte	Ecological Screening Standard for Surface Water Samples ¹		Leaksville Boat Access		DRSS Boat Ramp		Mid-Channel River Duke Outfall B (48" RCP)	
Sample Information								
Sample ID	-		EDEN-LBA-R-SW-20140305	µg/L	EDEN-DUKE-L-SW-20140305	µg/L	EDEN-48OUTFL-C-SW-20140305	µg/L
Date	-		03/05/2014		03/05/2014		03/05/2014	
Time	-		1535		1125		1157	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Type	-		Surface Water		Surface Water		Surface Water	
Dissolved metals								
Aluminum	87	µg/L	5.19J	µg/L	2.82J	µg/L	3.34J	µg/L
Antimony	5.6	µg/L	5U	µg/L	5U	µg/L	5U	µg/L
Arsenic	10	µg/L	0.124J	µg/L	4.5U	µg/L	4.5U	µg/L
Barium	220	µg/L	18.2	µg/L	15.2	µg/L	14.7	µg/L
Beryllium	0.66	µg/L	0.65U	µg/L	0.65U	µg/L	0.65U	µg/L
Boron	0.36	mg/L	0.25	mg/L	0.158U	mg/L	0.0962U	mg/L
Cadmium	0.1	µg/L	0.1U	µg/L	0.1U	µg/L	0.1U	µg/L
Calcium	-	-	8,030	µg/L	6,690	µg/L	6,410	µg/L
Chromium	25	µg/L	0.268J	µg/L	0.0995J	µg/L	0.123J	µg/L
Cobalt	3	µg/L	5U	µg/L	0.118J	µg/L	0.17J	µg/L
Copper	3	µg/L	0.565J	µg/L	0.741J	µg/L	0.818J	µg/L
Iron	1,000	µg/L	196	µg/L	176	µg/L	151	µg/L
Lead	0.59	µg/L	0.5U	µg/L	0.5U	µg/L	0.5U	µg/L
Magnesium	-	-	3,020J	µg/L	2,830J	µg/L	2,640J	µg/L
Manganese	200	µg/L	8.43U	µg/L	13.2	µg/L	13	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	0.201J	µg/L	0.183J	µg/L	0.214J	µg/L
Potassium	53,000	µg/L	1,350J	µg/L	1,420J	µg/L	1,350J	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	3,950J	µg/L	4,870J	µg/L	4,590J	µg/L
Thallium	0.24	µg/L	0.2U	µg/L	0.2U	µg/L	0.2U	µg/L
Vanadium	27	µg/L	0.597J	µg/L	0.227J	µg/L	0.245J	µg/L
Zinc	39	µg/L	10U	µg/L	10U	µg/L	3.99J	µg/L

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

Analyte	Ecological Screening Standard for Surface Water Samples ¹		Leaksville Boat Access		DRSS Boat Ramp		Mid-Channel River Duke Outfall B (48" RCP)	
Sample Information								
Sample ID	-		EDEN-LBA-R-SW-20140305		EDEN-DUKE-L-SW-20140305		EDEN-48OUTFL-C-SW-20140305	
Date	-		03/05/2014		03/05/2014		03/05/2014	
Time	-		1535		1125		1157	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Type	-		Surface Water		Surface Water		Surface Water	
Total Dissolved Solids								
Total Dissolved Solids	-	-	54	mg/L	67	mg/L	5J	mg/L
Total Suspended Solids								
Total Suspended Solids	-	-	7.5	mg/L	5	mg/L	5	mg/L
Total Metals								
Aluminum	2,000	µg/L	197	µg/L	191	µg/L	231	µg/L
Antimony	5.6	µg/L	5U	µg/L	5U	µg/L	5U	µg/L
Arsenic	10	µg/L	0.172J	µg/L	0.158J	µg/L	0.154J	µg/L
Barium	220	µg/L	20.5	µg/L	17.9	µg/L	18.3	µg/L
Beryllium	0.66	µg/L	0.65U	µg/L	0.65U	µg/L	0.65U	µg/L
Boron	0.36	mg/L	0.244	mg/L	0.162U	mg/L	0.128U	mg/L
Cadmium	2	µg/L	0.1U	µg/L	0.1U	µg/L	0.1U	µg/L
Calcium	-	-	7,890	µg/L	6,830	µg/L	6,730	µg/L
Chromium	29	µg/L	0.594J	µg/L	0.538J	µg/L	0.646J	µg/L
Cobalt	24	µg/L	0.201J	µg/L	0.211J	µg/L	0.27J	µg/L
Copper	3	µg/L	0.846J	µg/L	1.14J	µg/L	1.23J	µg/L
Iron	2,300	µg/L	694	µg/L	701	µg/L	956	µg/L
Lead	0.6	µg/L	0.315J	µg/L	0.245J	µg/L	0.317J	µg/L
Magnesium	-	-	2,650J	µg/L	2,580J	µg/L	2,910J	µg/L
Manganese	200	µg/L	19.7	µg/L	24.2	µg/L	28.1	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	0.369J	µg/L	0.412J	µg/L	0.382J	µg/L
Potassium	53,000	µg/L	1,180J	µg/L	1,230J	µg/L	1,340J	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	3,490J	µg/L	4,370J	µg/L	4,850J	µg/L
Thallium	0.24	µg/L	0.2U	µg/L	0.2U	µg/L	0.2U	µg/L
Vanadium	27	µg/L	5U	µg/L	5U	µg/L	5U	µg/L
Zinc	39	µg/L	10U	µg/L	10U	µg/L	10U	µg/L
Anions								
Chloride	230	mg/L	11.3	mg/L	8.23	mg/L	7.45	mg/L
Sulfate	-	-	4.98	mg/L	4.62	mg/L	4.49	mg/L

EDEN NORTH CAROLINA COAL ASH SPILL SURFACE WATER RESULTS

Analyte	Ecological Screening Standard for Surface Water Samples ¹		Leaksville Boat Access		DRSS Boat Ramp		Mid-Channel River Duke Outfall B (48" RCP)	
Sample Information								
Sample ID	-		EDEN-LBA-R-SW-20140305		EDEN-DUKE-L-SW-20140305		EDEN-48OUTFL-C-SW-20140305	
Date	-		03/05/2014		03/05/2014		03/05/2014	
Time	-		1535		1125		1157	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Type	-		Surface Water		Surface Water		Surface Water	
Wet Chemistry								
Alkalinity, Total (As CaCO ₃)	-	-	16.3U	mg/L	20U	mg/L	20.8U	mg/L
Hardness, Calcium/Magnesium (As CaCO ₃)	-	-	30.6	mg/L	27.7	mg/L	28.8	mg/L
Organic Carbon, Dissolved	-	-	0.4J	mg/L	1.3	mg/L	1.6	mg/L
pH	6.5 - 9.0		std	7.19J	std	7.2J	std	7.29J

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

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 ¹		Mid-Channel River Duke Outfall C (36" RCP)		Hwy 700		Hwy 880 (Berry Hill Bridge)	
Sample Information								
Sample ID	-		EDEN-36OUTFL-C-SW-20140305		EDEN-HW700-C-SW-20140305		EDEN-BHB-C-SW-20140305	
Date	-		03/05/2014		03/05/2014		03/05/2014	
Time	-		1207		1100		1031	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Type	-		Surface Water		Surface Water		Surface Water	
Dissolved metals								
Aluminum	87	µg/L	2.79J	µg/L	3.36J	µg/L	5.66J	µg/L
Antimony	5.6	µg/L	5U	µg/L	5U	µg/L	5U	µg/L
Arsenic	10	µg/L	4.5U	µg/L	0.235J	µg/L	0.164J	µg/L
Barium	220	µg/L	15.3	µg/L	16.7	µg/L	17.5	µg/L
Beryllium	0.66	µg/L	0.65U	µg/L	0.65U	µg/L	0.65U	µg/L
Boron	0.36	mg/L	0.108U	mg/L	0.178U	mg/L	0.129U	mg/L
Cadmium	0.1	µg/L	0.1U	µg/L	0.1U	µg/L	0.1U	µg/L
Calcium	-	-	6,370	µg/L	7,180	µg/L	6,960	µg/L
Chromium	25	µg/L	0.107J	µg/L	0.139J	µg/L	0.123J	µg/L
Cobalt	3	µg/L	0.178J	µg/L	0.198J	µg/L	0.206J	µg/L
Copper	3	µg/L	1.12J	µg/L	0.756J	µg/L	0.767J	µg/L
Iron	1,000	µg/L	150	µg/L	191	µg/L	195	µg/L
Lead	0.59	µg/L	0.5U	µg/L	0.5U	µg/L	0.5U	µg/L
Magnesium	-	-	2,640J	µg/L	2,880J	µg/L	2,770J	µg/L
Manganese	200	µg/L	13.6	µg/L	11.2	µg/L	10.1U	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	0.192J	µg/L	0.207J	µg/L	0.229J	µg/L
Potassium	53,000	µg/L	1,330J	µg/L	1,430J	µg/L	1,360J	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	4,580J	µg/L	4,950J	µg/L	4,760J	µg/L
Thallium	0.24	µg/L	0.2U	µg/L	0.2U	µg/L	0.2U	µg/L
Vanadium	27	µg/L	0.24J	µg/L	0.299J	µg/L	0.321J	µg/L
Zinc	39	µg/L	10U	µg/L	10U	µg/L	3.44J	µg/L

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

Analyte	Ecological Screening Standard for Surface Water Samples ¹		Mid-Channel River Duke Outfall C (36" RCP)		Hwy 700		Hwy 880 (Berry Hill Bridge)	
Sample Information								
Sample ID	-		EDEN-36OUTFL-C-SW-20140305		EDEN-HW700-C-SW-20140305		EDEN-BHB-C-SW-20140305	
Date	-		03/05/2014		03/05/2014		03/05/2014	
Time	-		1207		1100		1031	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Type	-		Surface Water		Surface Water		Surface Water	
Total Dissolved Solids								
Total Dissolved Solids	-	-	48	mg/L	63	mg/L	72	mg/L
Total Suspended Solids								
Total Suspended Solids	-	-	6	mg/L	9	mg/L	8	mg/L
Total Metals								
Aluminum	2,000	µg/L	205	µg/L	292	µg/L	449	µg/L
Antimony	5.6	µg/L	5U	µg/L	5U	µg/L	5U	µg/L
Arsenic	10	µg/L	0.173J	µg/L	0.361J	µg/L	0.329J	µg/L
Barium	220	µg/L	17.8	µg/L	20.5	µg/L	21.7	µg/L
Beryllium	0.66	µg/L	0.65U	µg/L	0.65U	µg/L	0.65U	µg/L
Boron	0.36	mg/L	0.154U	mg/L	0.178U	mg/L	0.177	mg/L
Cadmium	2	µg/L	0.1U	µg/L	0.1U	µg/L	0.0501J	µg/L
Calcium	-	-	6,460	µg/L	7,180	µg/L	7,550	mg/L
Chromium	29	µg/L	0.604J	µg/L	0.768J	µg/L	0.746J	µg/L
Cobalt	24	µg/L	0.26J	µg/L	0.292J	µg/L	0.322J	µg/L
Copper	3	µg/L	1.05J	µg/L	1.13J	µg/L	1.54J	µg/L
Iron	2,300	µg/L	910	µg/L	878	µg/L	963	µg/L
Lead	0.6	µg/L	0.315J	µg/L	0.381J	µg/L	0.413J	µg/L
Magnesium	-	-	2,780J	µg/L	2,610J	µg/L	3,030J	µg/L
Manganese	200	µg/L	30.5	µg/L	24.6	µg/L	19.9	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	0.585J	µg/L
Nickel	17	µg/L	0.362J	µg/L	0.469J	µg/L	1.04J	µg/L
Potassium	53,000	µg/L	1,280J	µg/L	1,340J	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	4,700J	µg/L	4,400J	µg/L	5,140	µg/L
Thallium	0.24	µg/L	0.2U	µg/L	0.2U	µg/L	0.189J	µg/L
Vanadium	27	µg/L	5U	µg/L	5U	µg/L	1.56J	µg/L
Zinc	39	µg/L	10U	µg/L	10U	µg/L	5.2J	µg/L
Anions								
Chloride	230	mg/L	7.51	mg/L	9.63	mg/L	8.86	mg/L
Sulfate	-	-	4.59	mg/L	4.8	mg/L	5.02	mg/L

EDEN NORTH CAROLINA COAL ASH SPILL SURFACE WATER RESULTS

Analyte	Ecological Screening Standard for Surface Water Samples ¹		Mid-Channel River Duke Outfall C (36" RCP)		Hwy 700		Hwy 880 (Berry Hill Bridge)	
Sample Information								
Sample ID	-		EDEN-36OUTFL-C-SW-20140305		EDEN-HW700-C-SW-20140305		EDEN-BHB-C-SW-20140305	
Date	-		03/05/2014		03/05/2014		03/05/2014	
Time	-		1207		1100		1031	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Type	-		Surface Water		Surface Water		Surface Water	
Wet Chemistry								
Alkalinity, Total (As CaCO ₃)	-	-	20.9U	mg/L	19.1U	mg/L	20U	mg/L
Hardness, Calcium/Magnesium (As CaCO ₃)	-	-	27.6	mg/L	28.7	mg/L	31.3	mg/L
Organic Carbon, Dissolved	-	-	1.3	mg/L	0.7J	mg/L	1	mg/L
pH	6.5 - 9.0		std	7.14	std	7.28J	std	7.16J

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

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 ¹		Danville Water Intake (Abreu-Grogan Park Boat Dock)		Hwy 58 Bridge		Hwy 360 Bridge	
Sample Information								
Sample ID	-		EDEN-DANIN-R-SW-20140305		EDEN-HW58-C-SW-20140305		EDEN-HW360-C-SW-20140305	
Date	-		03/05/2014		03/05/2014		03/05/2014	
Time	-		0947		0758		0850	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Type	-		Surface Water		Surface Water		Surface Water	
Dissolved metals								
Aluminum	87	µg/L	7.14J	µg/L	3.18J	µg/L	5.07J	µg/L
Antimony	5.6	µg/L	5U	µg/L	5U	µg/L	5U	µg/L
Arsenic	10	µg/L	0.164J	µg/L	0.138J	µg/L	0.139J	µg/L
Barium	220	µg/L	18.5	µg/L	19.3	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	0.247J	mg/L	0.194U	mg/L	0.16U	mg/L
Cadmium	0.1	µg/L	0.1U	µg/L	0.1U	µg/L	0.1U	µg/L
Calcium	-	-	7,740	µg/L	7,890	µg/L	7,770	µg/L
Chromium	25	µg/L	0.141J	µg/L	0.162J	µg/L	0.113J	µg/L
Cobalt	3	µg/L	0.152J	µg/L	0.109J	µg/L	0.132J	µg/L
Copper	3	µg/L	0.903J	µg/L	0.863J	µg/L	0.718J	µg/L
Iron	1,000	µg/L	209	µg/L	229	µg/L	240	µg/L
Lead	0.59	µg/L	0.5U	µg/L	0.5U	µg/L	0.5U	µg/L
Magnesium	-	-	2,970J	µg/L	3,110J	µg/L	3,090J	µg/L
Manganese	200	µg/L	10.7U	µg/L	20.5	µg/L	8.38U	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	0.204J	µg/L	1.8J	µg/L	0.175J	µg/L
Potassium	53,000	µg/L	1,410J	µg/L	1,580J	µg/L	1,540J	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	5,050	µg/L	6,550	µg/L	6,140	µg/L
Thallium	0.24	µg/L	0.2U	µg/L	0.2U	µg/L	0.2U	µg/L
Vanadium	27	µg/L	0.334J	µg/L	0.311J	µg/L	0.363J	µg/L
Zinc	39	µg/L	2.99J	µg/L	3.62J	µg/L	3.23J	µg/L

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

Analyte	Ecological Screening Standard for Surface Water Samples ¹		Danville Water Intake (Abreu-Grogan Park Boat Dock)		Hwy 58 Bridge		Hwy 360 Bridge	
Sample Information								
Sample ID	-		EDEN-DANIN-R-SW-20140305		EDEN-HW58-C-SW-20140305		EDEN-HW360-C-SW-20140305	
Date	-		03/05/2014		03/05/2014		03/05/2014	
Time	-		0947		0758		0850	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Type	-		Surface Water		Surface Water		Surface Water	
Total Dissolved Solids								
Total Dissolved Solids	-	-	79	mg/L	53	mg/L	74	mg/L
Total Suspended Solids								
Total Suspended Solids	-	-	6.5	mg/L	8.5	mg/L	10	mg/L
Total Metals								
Aluminum	2,000	µg/L	565	µg/L	597	µg/L	354	µg/L
Antimony	5.6	µg/L	5U	µg/L	5U	µg/L	5U	µg/L
Arsenic	10	µg/L	0.33J	µg/L	0.308J	µg/L	0.34J	µg/L
Barium	220	µg/L	23.9	µg/L	25.9	µg/L	24.4	µg/L
Beryllium	0.66	µg/L	0.65U	µg/L	0.65U	µg/L	0.65U	µg/L
Boron	0.36	mg/L	0.208J	mg/L	0.171	mg/L	0.173U	mg/L
Cadmium	2	µg/L	0.1U	µg/L	0.1U	µg/L	0.1U	µg/L
Calcium	-	-	8,090	µg/L	8,270	µg/L	7,890	µg/L
Chromium	29	µg/L	0.834J	µg/L	0.95J	µg/L	0.863J	µg/L
Cobalt	24	µg/L	0.256J	µg/L	0.288J	µg/L	0.379J	µg/L
Copper	3	µg/L	1.01J	µg/L	1.17J	µg/L	1.15J	µg/L
Iron	2,300	µg/L	950	µg/L	1,180	µg/L	1,230	µg/L
Lead	0.6	µg/L	0.393J	µg/L	0.45J	µg/L	0.488J	µg/L
Magnesium	-	-	3,130J	µg/L	3,270J	µg/L	3,270J	µg/L
Manganese	200	µg/L	19.1	µg/L	26.6	µg/L	30.6	µg/L
Mercury	0.000012	mg/L	0.0002U	mg/L	0.0002U	mg/L	0.0002U	mg/L
Molybdenum	-	-	0.365J	µg/L	0.284J	µg/L	5U	µg/L
Nickel	17	µg/L	0.732J	µg/L	0.573J	µg/L	0.462J	µg/L
Potassium	53,000	µg/L	1,580J	µg/L	1,590J	µg/L	1,470J	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	5,060	µg/L	6,780	µg/L	6,190	µg/L
Thallium	0.24	µg/L	0.0561J	µg/L	0.0282J	µg/L	0.2U	µg/L
Vanadium	27	µg/L	1.72J	µg/L	1.84J	µg/L	2.05J	µg/L
Zinc	39	µg/L	3.83J	µg/L	3.68J	µg/L	10U	µg/L
Anions								
Chloride	230	mg/L	10.8	mg/L	11.9	mg/L	12	mg/L
Sulfate	-	-	5.22	mg/L	5.82	mg/L	5.82	mg/L

EDEN NORTH CAROLINA COAL ASH SPILL SURFACE WATER RESULTS

Analyte	Ecological Screening Standard for Surface Water Samples ¹		Danville Water Intake (Abreu-Grogan Park Boat Dock)		Hwy 58 Bridge		Hwy 360 Bridge	
Sample Information								
Sample ID	-		EDEN-DANIN-R-SW-20140305		EDEN-HW58-C-SW-20140305		EDEN-HW360-C-SW-20140305	
Date	-		03/05/2014		03/05/2014		03/05/2014	
Time	-		0947		0758		0850	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Type	-		Surface Water		Surface Water		Surface Water	
Wet Chemistry								
Alkalinity, Total (As CaCO ₃)	-	-	20.7U	mg/L	21.3U	mg/L	21.7U	mg/L
Hardness, Calcium/Magnesium (As CaCO ₃)	-	-	33.1	mg/L	34.1	mg/L	33.2	mg/L
Organic Carbon, Dissolved	-	-	1.2	mg/L	1.6	mg/L	1.4	mg/L
pH	6.5 - 9.0	std	7.2J	std	7.21J	std	7.38J	std

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

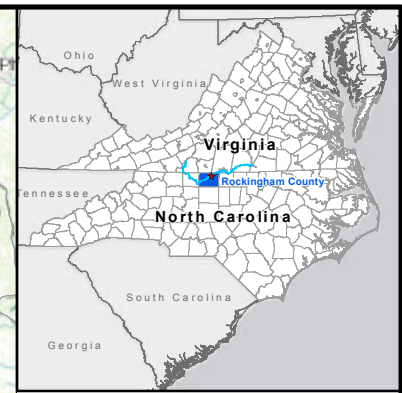
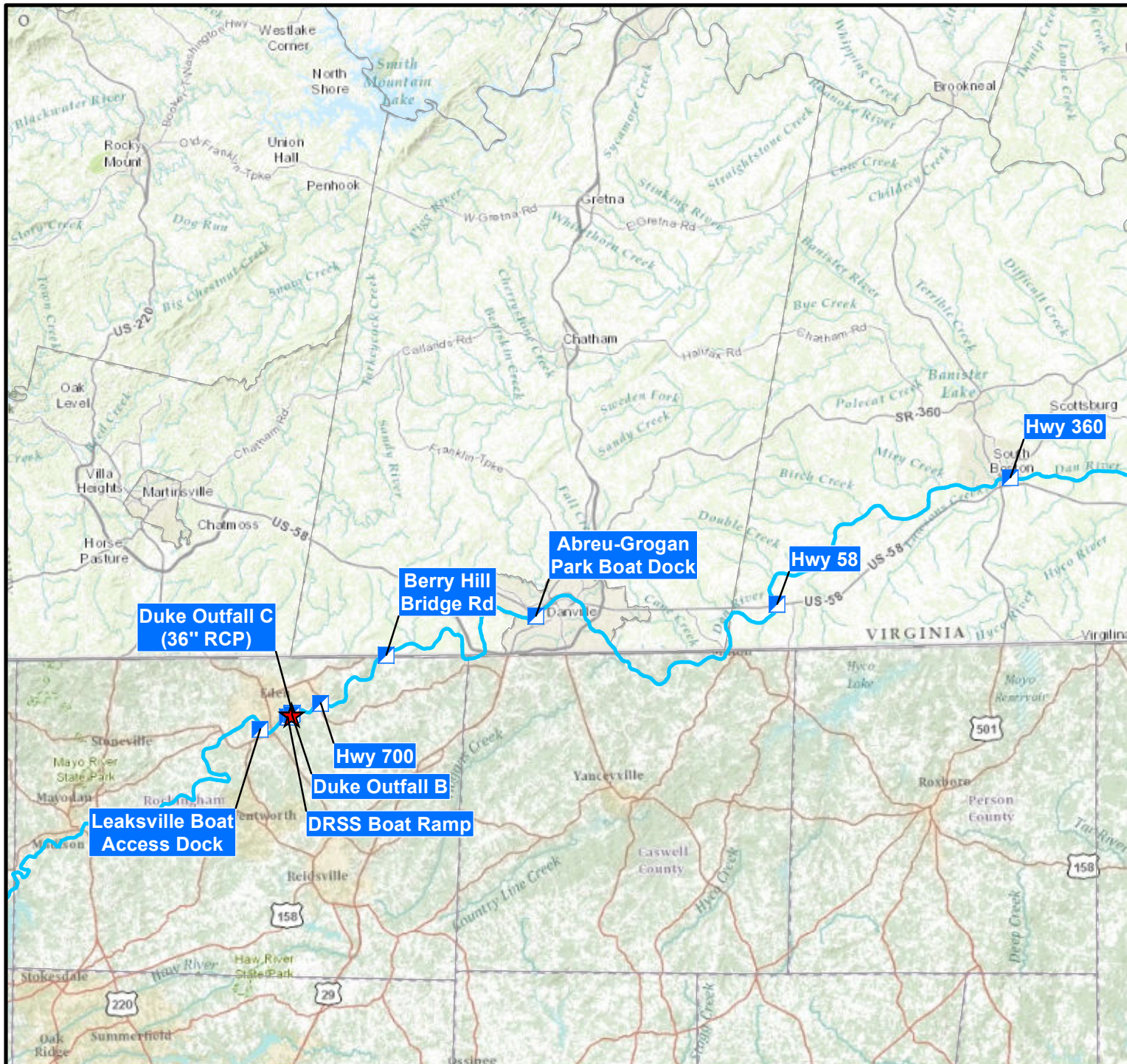
J- Value is estimated with a possible low bias

µg/L micrograms per liter




mg/L milligrams per liter

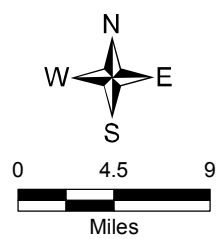
std standard

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 5, 2014**

