

DAN RIVER COAL ASH SPILL



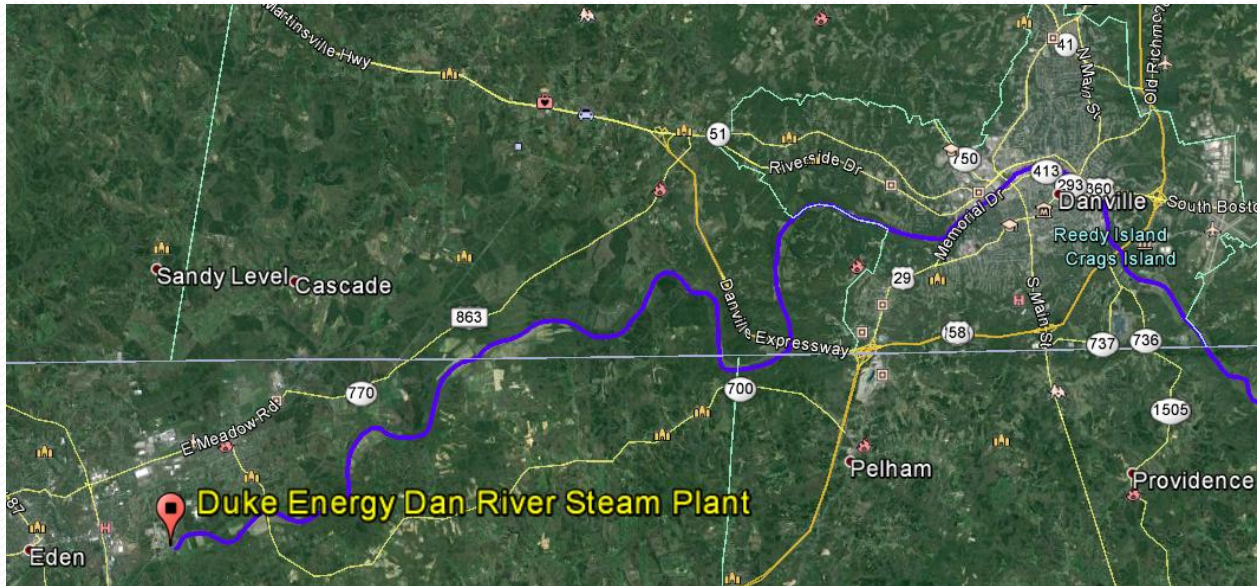
Roanoke River Basin Bi-State Commission

October 14, 2015

Curt Thomas, Office of Water Supply

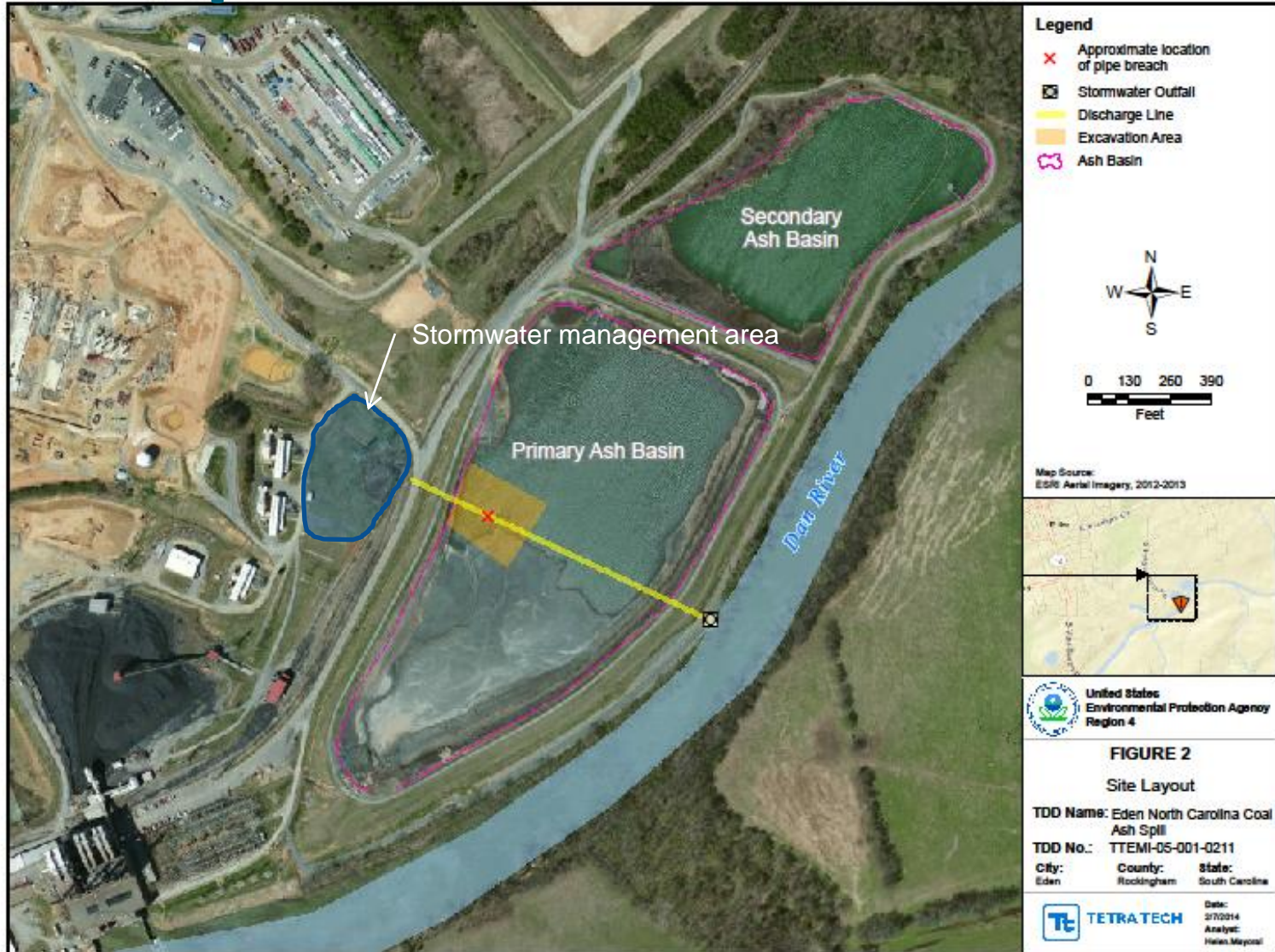


Background:



- Feb. 2, 2014: coal ash and contaminated water spilled into Dan River from Duke Energy site near Edén, NC.
- Estimated 39,000 tons of coal ash entered river.
- On Scene Coordinators on site by Feb. 4th: EPA, North Carolina, DEQ, U.S. Fish and Wildlife Service and Duke Energy.

Site Map:



What is Coal Ash:

- Residue generated from burning coal; generally stored at power plants or placed in landfills.
- Ash has large variety of constituents – mostly silicon oxide, iron oxide, and aluminum oxide, with trace amounts of arsenic, selenium, mercury, boron, thallium, cadmium, chlorides, bromine, magnesium, chromium, copper, nickel, and other metals.

DEQ's Long-Term Monitoring Plan

4ADAN059.97/**FishTissue2** (Above Schoolfield Dam)
Monthly Metals in Water Column and Sediment

FishTissue3 (Union Street Dam)

FishTissue4 (Anglers Park)

FishTissue5 (South Boston)

FishTissue6
(Near State Park)

FishTissue8 (Clover, VA)
Control Site on Roanoke River

FishTissue7 (Clarksville Marina)

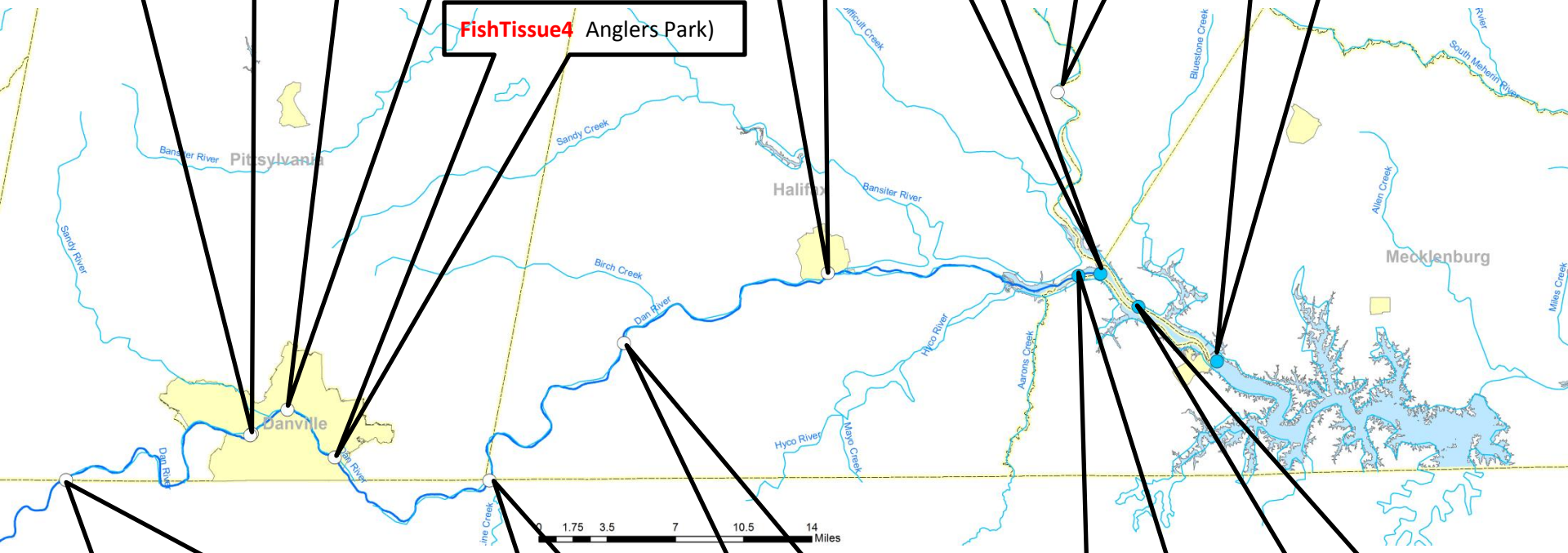
4ADAN075.22/**FishTissue1** (Rte. 880)
Monthly Metals in Water Column and Sediment
Boatable Probabilistic Site

4ADAN028.90 (Rte. 691)
Monthly Metals in Water Column and Sediment

4AROA043.14
(Lake Site April - October)
Monthly Metals in Water Column and Sediment

4ADAN042.80 (Rte. 62)
Monthly Metals in Water Column and Sediment
Boatable Probabilistic Site

4ADAN000.00 (**Lake Site April - October**)
Monthly Metals in Water Column and Sediment




Water Quality Monitoring Results (VA)

- No observable risk in waterways based on coal ash spill
 - No water quality standards for metals exceeded
 - Water bodies, Sediment, Fish
- Cannot state there is no overall damage to Dan River



Recent Actions

- Enforcement Action – Consent Order
 - Presented to State Water Control Board – June 25, 2015
 - \$2.5 million settlement against Duke Energy
 - \$2.25 million in environmental projects
 - \$250,000 in DEQ fund for environmental emergency responses
- Natural Resource Damage Assessment Plan
 - Assesses potential natural resource injuries from release of hazardous substances into the Dan River
- Water Resources Fund (Duke Energy)



Please contact Jeff Reynolds (DEQ) for additional information on Virginia enforcement initiatives related to the Dan River Coal Ash Spill:

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Questions?