

**Data from Ash Release at Duke Energy Dan River Station**  
**Stormwater Discharge Upstream of Ash Pond - 009**  
**Sampling Dates and Sample ID**

| Parameter                 | Lab   | Report #<br>Dissolved<br>PQL Units/Hg 1631 | 2/14/2014 | 2/17/2014 | 2/26/2014 | 2/27/2014 | Applicable    | Basis for    |
|---------------------------|-------|--|-----------|-----------|-----------|-----------|---------------|--------------|
|                           |       |  | AC04986   | AC05085   | AC05574   | AC05643   | Water Quality | Standard     |
|                           |       |  | AC04987   | AC05086   | AC05575   | AC05644   | Standard      | Standard     |
| Chloride                  | 1.0   | mg/L                                       | 53        | 27        |           |           | 230           | Aquatic Life |
| Fluoride                  | 0.4   | mg/L                                       | 0.4 U     | 0.4 U     |           |           | 1.8           | Aquatic Life |
| Residue_Suspended         | 6.2   | mg/L                                       | 249       | 24        | 25        | 26        | N             |              |
| Residue_Total             | 12    | mg/L                                       | 486       | 377       | 445       |           | N             |              |
| Sulfate                   | 2.0   | mg/L                                       | 37        | 160       |           |           |               |              |
| Total Dissolved Solids    | 12    | mg/L                                       | 257       | 339       |           | 406       |               |              |
| Turbidity                 | 1.0   | NTU  |           | 50        |           |           | 50            | Aquatic Life |
| Aluminum_Al               | 50    | ug/L                                       | 13000     | 960       | 64        | 66        | 87*           | Aquatic Life |
| Arsenic_As                | 2.0   | ug/L                                       | 43        | 120       | 170       | 180       | 10            | Human Health |
| Barium_Ba                 | 10    | ug/L                                       | 170       | 79        |           |           | 200,000       | Human Health |
| Boron_B                   | 50    | ug/L                                       | 60        | 550       |           |           | 750,000       | Aquatic Life |
| Cadmium_Cd                | 0.50  | ug/L                                       | 0.60      | 0.50 U    | 0.50 U    | 0.50 U    | 2             | Aquatic Life |
| Calcium_Ca                | 0.10  | mg/L                                       | 47        | 69        |           |           |               |              |
| Chromium_Cr               | 10    | ug/L                                       | 29        | 10 U      |           |           | 50            | Aquatic Life |
| Copper_Cu                 | 2.0   | ug/L                                       | 15        | 2.0 U     | 2.0 U     | 2.0 U     | 7             | Aquatic Life |
| Iron_Fe                   | 50    | ug/L                                       | 19000     | 7400      | 12000     | 13000     | 1000          | Aquatic Life |
| Lead_Pb                   | 2.0   | ug/L                                       | 17        | 2.0 U     |           |           | 25            | Aquatic Life |
| Magnesium_Mg              | 0.10  | mg/L                                       | 11        | 14        |           |           |               |              |
| Manganese_Mn              | 10    | ug/L                                       | 530       | 760       |           |           |               |              |
| Mercury_Hg 245.1          | 0.2   | ug/L                                       |           |           |           |           | 0.012         | Aquatic Life |
| Mercury_Hg 1631 Low Level | 0.001 | ug/L                                       |           | 0.002     | 0.001 U   |           | 0.012         | Aquatic Life |
| Nickel_Ni                 | 2.0   | ug/L                                       | NC        | 4.2       | 3.3       | 3.6       | 88            | Aquatic Life |
| Potassium_K               | 0.10  | mg/L                                       | 8.6       | 8.3       |           |           |               |              |
| Selenium_Se               | 5.0   | ug/L                                       | 5.0 U     | 5.0 U     |           |           | 5             | Aquatic Life |
| Sodium_Na                 | 0.10  | mg/L                                       | 7.7       | 19        |           |           |               |              |
| Strontium_Sr              | 10    | ug/L                                       | 400       | 1200      |           |           | 40,000        | Human Health |
| Thallium_Tl               | 2.0   | ug/L                                       | 2.0 U     | 2.0 U     |           |           | 0.47 **       | Human Health |
| Titanium_Ti               | 10    | ug/L                                       | 500       | 19        |           |           |               |              |
| Vanadium_V                | 25    | ug/L                                       | 32        | 25 U      |           |           |               |              |
| Zinc_Zn                   | 10    | ug/L                                       | 240       | 48        | 19        | 27        | 50            | Aquatic Life |

|                         |      |      |        |        |        |        |   |  |
|-------------------------|------|------|--------|--------|--------|--------|---|--|
| Al - Dissolved Aluminum | 50   | ug/L | 230    | 50 U   | 50 U   | 50 U   | <i>no NC standards for dissolved metals</i> |  |
| As Dissolved Arsenic    | 2.0  | ug/L | 13     | 78     | 93     | 85     |   |  |
| Ba- Dissolved Barium    | 10   | ug/L | 61     | 68     |        |        |   |  |
| B Dissolved             | 50   | ug/L | 87     | 490    |        |        |   |  |
| Cd- Dissolved Cadmium   | 0.50 | ug/L | 0.50 U | 0.50 U | 0.50 U | 0.50 U |   |  |
| Ca-Dissolved Calcium    | 0.10 | mg/L | 39     | 64     |        |        |   |  |
| Cr- Dissolved Chromium  | 10   | ug/L | 10 U   | 10 U   |        |        |   |  |
| Cu- Dissolved Copper    | 2.0  | ug/L | 2.0 U  | 2.0 U  | 2.0 U  | 2.0 U  |   |  |
| Fe- Dissolved Iron      | 50   | ug/L | 610    | 3700   | 5200   | 4900   |   |  |
| Pb-Dissolved Lead       | 2.0  | ug/L | 2.0 U  | 2.0 U  |        |        |   |  |
| Mg- Dissolved Magnesium | 0.10 | mg/L | 5.8    | 13     |        |        |   |  |
| Dissolved Mn            | 10   | ug/L | 240    | 710    |        |        |   |  |
| Ni-Dissolved Nickel     | 2.0  | ug/L | 4.1    | 3.5    | 3.5    | 3.3    |   |  |
| K-Dissolved Potassium   | 0.10 | mg/L | 5.3    | 7.6    |        |        |   |  |
| Se Dissolved            | 5.0  | ug/L | 5.0 U  | 5.0 U  |        |        |   |  |
| Na-Dissolved Sodium     | 0.10 | mg/L | 6.4    | 18     |        |        |   |  |
| Stronium Dissolved      | 10   | ug/L | 490    | 1100   |        |        |   |  |
| Thallium (Tl) Dissolved | 2.0  | ug/L | 2.0 U  | 2.0 U  |        |        |   |  |
| Ti (Titanium) Dissolved | 10   | ug/L | 10 U   | 10 U   |        |        |   |  |
| V Dissolved             | 25   | ug/L | 25 U   | 25 U   |        |        |   |  |
| Zn-Dissolved Zinc       | 10   | ug/L | 57     | 37     | 19     | 20     |   |  |

U = Indicates that the analyte was analyzed for but not detected above the reported practical quantitation limit.

Blanks mean no sample taken or standard available.

\* Aluminum is pH and hardness dependent and is based on National Recommended Water Quality Criteria.

\*\* National Recommended Water Quality Criteria

NC - not complete as of 3/10/2014