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May 6, 2015

Ms. Elizabeth Werner
Permitting Hydrogeologist
North Carolina Department of Environment and Natural Resources
Division of Waste Management - Solid Waste Section
1646 Mail Service Center – *Letter submitted electronically*
Raleigh, North Carolina 27699-1646

Subject: Ash Sample Request
Duke Energy Carolinas - Belews Creek Steam Station
Permit Number 8503
Stokes County North Carolina

Dear Ms. Werner:

Duke Energy Carolinas, LLC (“Duke Energy”) hereby submits for review and approval proposed ash sampling at the Belews Creek Steam Station Pine Hall Road Landfill. The proposed ash sample location is part of the approved Groundwater Assessment Work Plan as required by the Coal Ash Management Act of 2014.

Information regarding the proposed ash sample location, including a figure showing the approximate proposed location is provided in the attached letter and plan prepared by HDR. We look forward to receiving your approval/concurrence to obtain the ash sample in accordance with the enclosed plan.

Duke Energy is committed to excellent environmental stewardship and to cooperation with the Division regarding the operation, maintenance, safety, and integrity of all of its landfills, structural fills, ash basins, dams, and associated pipe systems in North Carolina. We look forward to continuing to work with you regarding such issues and to ensure that Duke Energy’s facilities are maintained in good condition.

If you have any questions or need clarification regarding the information provided, feel free to contact me at kim.hutchinson@duke-energy.com or (336) 215-4576 at your convenience.

Sincerely,

A handwritten signature in blue ink that reads "Kimberlee Hutchinson".

Kimberlee Hutchinson, PE
Environmental Services

Attachment: 2015-05-01 BCSS Pine Hall Road Landfill Ash Sampling Location

Cc: Ed Mussler – NCDENR Permitting Branch Head
Ed Sullivan - Duke Energy Environmental Services
Melonie Martin - Duke Energy Environmental Services



May 1, 2015

Ms. Kimberlee Hutchinson
Duke Energy Carolinas, LLC
3195 Pine Hall Road
Belews Creek, North Carolina 27009

Via email Kim.Hutchinson@duke-energy.com

Subject: Proposed Ash Sampling Location
Pine Hall Road Ash Landfill (Permit No. 85-03)
Duke Energy Belews Creek Steam Station
Stokes County, North Carolina

Dear Ms. Hutchinson,

HDR has prepared this notification letter for the collection of an ash sample within the facility boundary at the Pine Hall Road Ash Landfill (Permit No 85.03) located at the Belews Creek Steam Station. The proposed ash sampling is part of the station's *Groundwater Assessment Work Plan* (GAWP) as required by the Coal Ash management Act of 2014 and reviewed by the North Carolina Department of Environment and Natural Resources (NCDENR).

On August 13, 2014, the North Carolina Department of Environment and Natural Resources (NCDENR) issued a Notice of Regulatory Requirements (NORR) letter to Duke Energy requiring submittal of a work plan to complete a comprehensive site assessment (CSA) at the Belews Creek Steam Station Ash Basin site. The Coal Ash Management Act, which became law on September 20, 2014, also required a Groundwater Assessment Plan as outlined in the Act. Duke Energy submitted a GAWP to the NCDENR on September 25, 2014. Subsequently, NCDENR issued a comment letter dated November 4, 2014. In response to the comments, Duke Energy submitted a revised GAWP to NCDENR on December 30, 2014.

HDR requests permission to obtain an ash sample from a portion of the closed Pine Hall Road Ash Landfill to support the groundwater monitoring component of the GAWP. The ash sample will be analyzed using leaching procedures based on EPA Methods 1313 and 1316. The proposed sample location is in the vicinity of observation well OB-3 as shown on the attached Figure 1. This portion of the landfill has a soil-only cover. The proposed procedure for obtaining the sample and restoring the soil cover is as follows:

1. Remove sod from excavation area and place to the side for reuse after excavation is complete.
2. Excavate cover soil using hand shovel and place clean soil (i.e. no ash) in a pile next to the excavation. Any soil with traces of ash will be placed on polyethylene next to the excavation to keep separate from the soil cover. The size of the excavation will be limited to a diameter of approximately 3'-0".

Ms. Kim Hutchinson

May 1, 2015

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3. Continue excavation until ash is exposed at the bottom of the excavation. Depth of excavation will be limited to what is needed to obtain an ash sample without intermixed soil.
4. Decontaminate shovel according to standard operating procedures and obtain ash sample sufficient to fill two one-gallon Ziploc bags. Label samples, place on ice, and ship to the UNCC lab for testing.
5. Place excavated material containing ash back into the excavation first, compacting in lifts with hand tools.
6. Backfill the remainder of the excavation with clean soil, compacting to the surface in lifts with hand tools. The thickness of the restored cover will be a minimum 2'-0".
7. Replace sod. Seed and apply straw as needed to re-establish vegetation.

The proposed sampling procedure is anticipated to require approximately one hour to complete including soil cover repair. The excavation will not be allowed to remain open overnight.

Should you have questions or need additional information, please contact Tom Yanoschak at (919) 232-6618 or Thomas.yanoschak@hdrinc.com.

Sincerely,

HDR Engineering, Inc. of the Carolinas

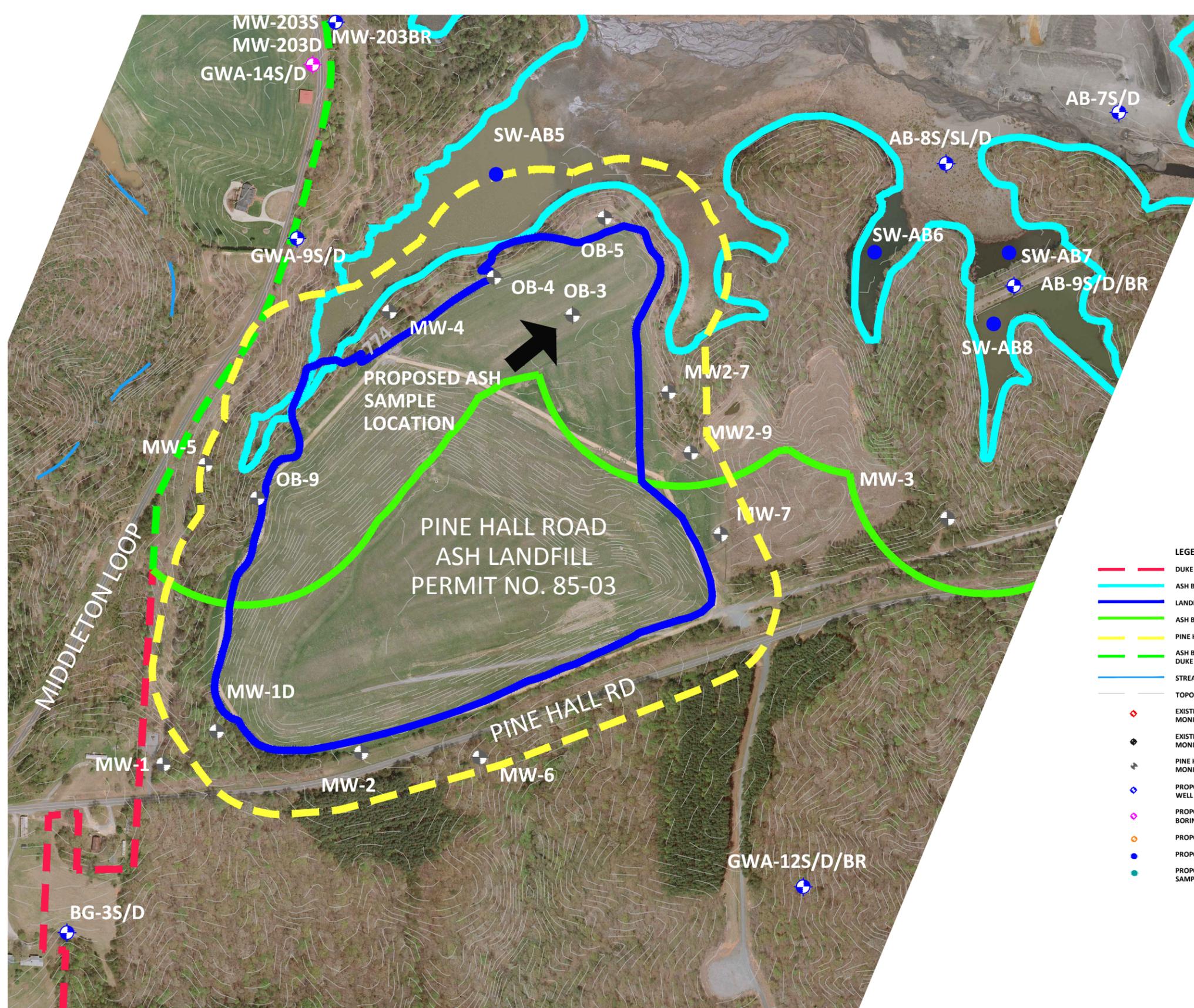


Thomas M. Yanoschak, P.E.

Senior Project Manager

Attachment: Figure 1 - Site Map

Cc: Dan Albert – Duke Energy
Brooke Ahrens – HDR
John Catches – HDR



- LEGEND:**
- DUKE ENERGY PROPERTY BOUNDARY
 - ASH BASIN WASTE BOUNDARY
 - LANDFILL/STRUCTURAL FILL BOUNDARY
 - ASH BASIN COMPLIANCE BOUNDARY
 - PINE HALL ROAD ASH LANDFILL COMPLIANCE BOUNDARY
 - ASH BASIN COMPLIANCE BOUNDARY COINCIDENT WITH DUKE PROPERTY BOUNDARY
 - STREAM
 - TOPOGRAPHIC CONTOUR (4-FT INTERVAL)*
 - ◆ EXISTING ASH BASIN COMPLIANCE GROUNDWATER MONITORING WELL
 - ◆ EXISTING ASH BASIN VOLUNTARY GROUNDWATER MONITORING WELL
 - ◆ PINE HALL ROAD ASH LANDFILL GROUNDWATER MONITORING WELL
 - ◆ PROPOSED SOIL BORING/GROUNDWATER MONITORING WELL LOCATION
 - ◆ PROPOSED POTENTIAL ADDITIONAL BORING/GROUNDWATER MONITORING WELL LOCATION
 - PROPOSED SOIL BORING LOCATION
 - PROPOSED SURFACE WATER SAMPLE LOCATION
 - PROPOSED SEEP SURFACE WATER AND SEDIMENT SAMPLE LOCATION

- NOTES:**
1. PARCEL DATA FOR THE SITE WAS OBTAINED FROM DUKE ENERGY REAL ESTATE AND IS APPROXIMATE.
 2. WASTE BOUNDARY AND ASH STORAGE AREA BOUNDARY ARE APPROXIMATE.
 3. AS-BUILT MONITORING WELL LOCATIONS PROVIDED BY DUKE ENERGY.
 4. COMPLIANCE SHALLOW MONITORING WELLS (S) ARE SCREENED ACROSS THE SURFICIAL WATER TABLE.
 5. COMPLIANCE DEEP MONITORING WELLS (D) ARE SCREENED IN THE TRANSITION ZONE BETWEEN COMPETENT BEDROCK AND THE REGOLITH.
 6. TOPOGRAPHY DATA FOR THE SITE WAS OBTAINED FROM NCDOT WEB SITE (DATED 2010).
 7. AERIAL PHOTOGRAPHY WAS OBTAINED FROM WSP DATED APRIL 2014.
 8. THE COMPLIANCE BOUNDARY IS ESTABLISHED ACCORDING TO THE DEFINITION FOUND IN 15A NCAC 02L .0107 (a)



SITE MAP- PROPOSED ASH SAMPLE LOCATION
DUKE ENERGY CAROLINAS, LLC
BELEWS CREEK STEAM STATION ASH BASIN
NPDES PERMIT NO. NC0022406
 STOKES COUNTY, NORTH CAROLINA

DATE
 April 24, 2015

FIGURE