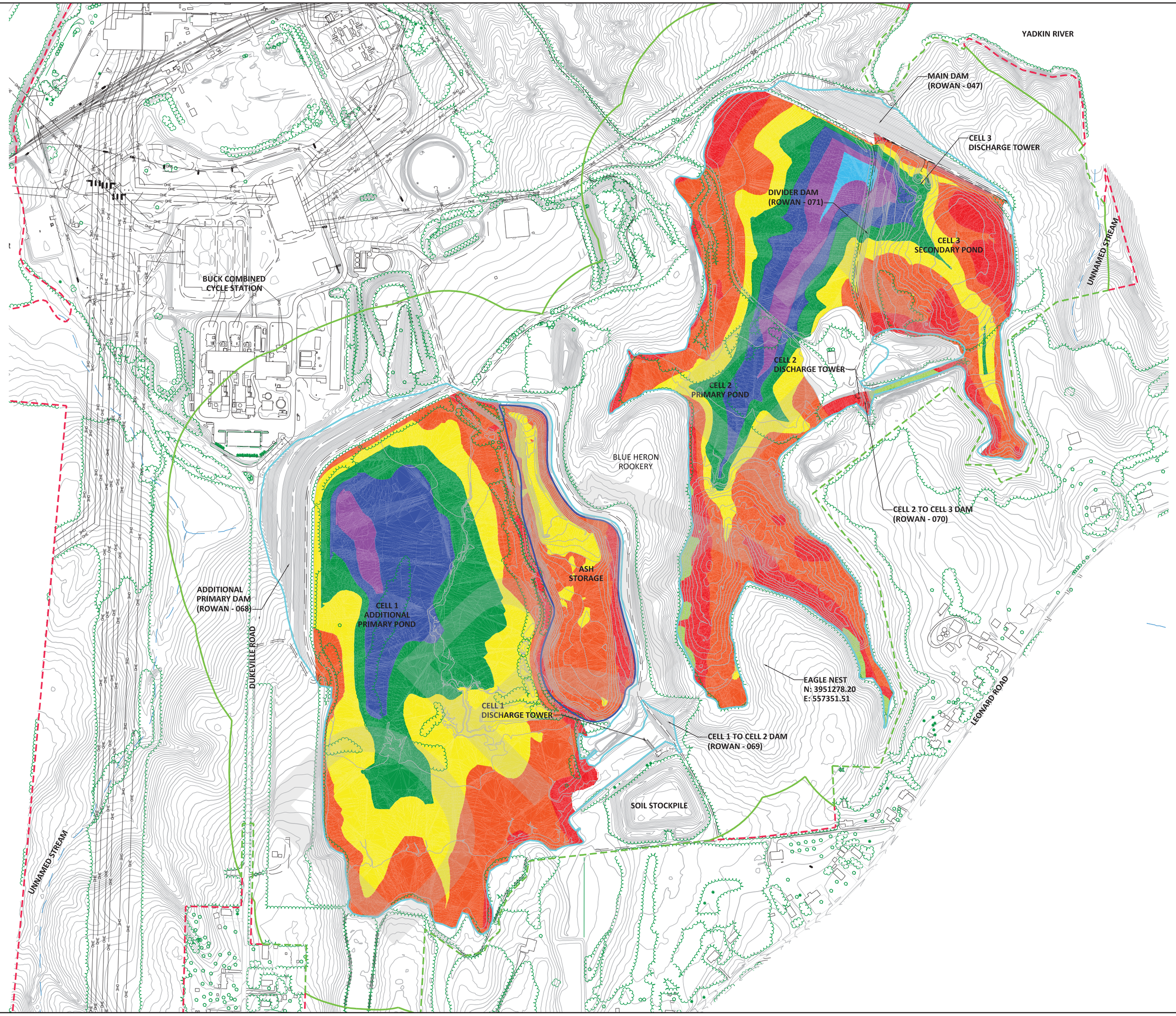

N

ESTIMATED IMPOUNDED CCR THICKNESS			
NUMBER	MINIMUM DEPTH (FT)	MAXIMUM DEPTH (FT)	COLOR
1	-26.000	-12.000	
2	-12.000	0.000	
3	0.000	12.000	
4	12.000	24.000	
5	24.000	36.000	
6	36.000	48.000	
7	48.000	60.000	
8	60.000	72.000	

VOLUME SUMMARY		
AREA NAME	AREA (ACRES)	IMPOUNDED CCR (CY)
CELL 1	71	2,591,000
CELL 2	57.5	1,548,000
CELL 3	21.5	615,000
ASH STORAGE*	13.5	195,000
TOTAL	163.5	4,949,000

*CCR WITHIN ASH STORAGE AREA WAS PREVIOUSLY IMPOUNDED WITHIN CELL 1 AND THEN EXCAVATED, DEWATERED, AND COMPACTED WITHIN STORAGE AREA. VOLUME INCLUDES SOIL FINAL COVER WHICH WAS SPECIFIED TO BE A MINIMUM OF 18 INCHES THICK ON THE TOP SLOPES AND 24 INCHES THICK FOR THE SIDESLOPES.

LEGEND:

- DUKE ENERGY PROPERTY BOUNDARY
- WASTE BOUNDARY
- ASH STORAGE AREA BOUNDARY
- COMPLIANCE BOUNDARY
- COMPLIANCE BOUNDARY COINCIDENT WITH DUKE PROPERTY BOUNDARY
- STREAM
- EXISTING MINOR TOPOGRAPHIC CONTOUR (2-FT INTERVAL)
- 700 EXISTING MAJOR TOPOGRAPHIC CONTOUR (10-FT INTERVAL)

NOTES:
1. WASTE BOUNDARY AND ASH STORAGE AREA BOUNDARY ARE APPROXIMATE.
2. TOPOGRAPHY DATA FOR THE SITE OUTSIDE OF THE ASH BASIN AND ASH STORAGE AREA WAS OBTAINED FROM WSP DATED JULY 21, 2015.
3. THE COMPLIANCE BOUNDARY IS ESTABLISHED ACCORDING TO THE DEFINITION FOUND IN 15A NCAC 02L .0107 (a).
4. HYDROGRAPHY WAS OBTAINED FROM USGS 7.5-MINUTE SERIES TOPOGRAPHIC MAPS SALISBURY, NC AND SOUTHMONT, NC.
5. ELEVATIONS ARE SURVEY BASED ON NC STATE PLANE GRID-NAD 83/NAVD 88.
6. IMPOUNDED ASH VOLUMES WERE CALCULATED USING AUTOCAD CIVIL 3D SOFTWARE.
7. SURFACES SHOWN ON FIGURES B1-1 (PRE-DEVELOPMENT TOPOGRAPHY) AND B1-2 (EXISTING CONDITIONS) WERE COMPARED TO OBTAIN VOLUME AND THICKNESS OF IMPOUNDED ASH.

SCALE (FEET)
150' 0 150' 300'
1" = 300'

IMPOUNDED CCR THICKNESS
DUKE ENERGY CAROLINAS, LLC
BUCK STEAM STATION ASH BASINS

ROWAN COUNTY, NORTH CAROLINA

DATE
MARCH 2016

FIGURE
B1-3

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