



SCANNED

526 South Church Street
Mail Code EC13K
Charlotte, NC 28202
o 980.373.2663
c 704.497.3627
f 000.000.0000

July 15, 2019

RECEIVED

Mr. Greg Cassidy, Brownfields Project Manager
South Carolina Department of Health and Environmental Control
Division of Site Assessment, Remediation, and Revitalization
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201

JUL 17 2019

SITE ASSESSMENT,
REMEDIAL ACTION,
REVITALIZATION

Subject: Quarterly Progress Report – Second Quarter 2019
Former Bramlette Manufactured Gas Plant
400 East Bramlette Road
Greenville, South Carolina
VCC 16-5857-RP

Dear Mr. Cassidy:

This Quarterly Progress Report has been prepared for the referenced site in accordance with the requirements of the Responsible Party Voluntary Cleanup Contract (VCC 16-5857-RP) between Duke Energy Carolinas (Duke Energy) and the South Carolina Department of Health and Environmental Control (SCDHEC), dated July 29, 2016.

The following sections provide a summary of work performed during the reporting period, test and sampling results generated during the reporting period, environmental problems experienced during the reporting period and their resolution, and work to be performed during the next reporting period. The work was conducted in accordance with the April 13, 2018 Remedial Investigation Work Plan Addendum (RIWP-A) submitted by Duke Energy and approved by the SCDHEC on April 24, 2018.

Work Performed During the Reporting Period

Activities performed during the second quarter (April 1, 2019 through June 30, 2019) included the following:

April 10, 2019

- Collected groundwater samples from MW-03BR for analysis of VOCs by EPA Method 8260 and SVOCs by EPA Method 8270.
- Completed slug testing of newly installed monitoring wells MW-29S, MW-29TZ, and MW-03BR.

April 16, 2019

- Completed additional development on recently installed well MW-03BR.

April 17, 2019

- Completed a survey of location and elevation of 51 soil borings, newly installed wells (MW-29S, MW-29TZ, and MW-03BR), identifiable onsite culverts and manholes, and Reedy River stage benchmarks.

April 24, 2019

- Completed sheen inspection and sampling at three (3) locations on the perimeter of the Vaughn Landfill (SS-01, SS-02, SS-03). Samples were analyzed for VOCs by EPA Method 8260B, SVOCs by EPA Method 8270D-SIM(M), and Nonhalogenated Organics by EPA Method 8015D(M).
- Removed Investigation derived waste (IDW) from development of MW-03BR from the site for off-site treatment.

May 9, 2019

- Downloaded water level data from April 1, 2019 through May 9, 2019 from transducers/data loggers in monitoring wells MW-26, MW-27, MW-03BR, MW-20, MW-31S, and MW-31TZ.

June 11, 2019

- Downloaded water level data from May 9, 2019 through June 11, 2019 from transducers/data loggers in monitoring wells MW-26, MW-27, MW-03BR, MW-20, MW-31S, and MW-31TZ.

June 13, 2019

- Conducted meeting with SCDHEC to discuss results of the recently completed RIWP-A and path forward.

Evaluation of RIWP-A data was completed in June. Recommendations for additional assessment are included in the 2019 RIWP-A which will be submitted to SCDHEC in early July.

Summary of Test and Sampling Results Generated During Reporting Period

A summary of the test and sampling results and all tables and figures for work performed during second quarter (April 1, 2019 through June 30, 2019) is presented in the RIWP-A submitted to SCDHEC on July 3, 2019. A site layout figure is included as **Figure 1**.

Environmental Problems Identified During Reporting Period and Their Resolution

Environmental conditions encountered during the reporting period include:

- None.

Work to be Performed During the Next Reporting Period (Third Quarter 2019)

Field work will be planned and partially implemented in the third quarter 2019 (July 1, 2019 through September 30, 2019) pending approval of the RIWP-A submitted to SCDHEC on July 3, 2019 and securing access agreements from property owners.

Additional tasks to be performed during the third quarter 2019 include:

- Pending approval of the RIWP-A and securing access agreements with property owners well installation along the Swamp Rabbit Trail and at Legacy Charter Elementary School.
- Abandon monitoring wells MW-23 and MW-24 in accordance with South Carolina Well Standards R. 61-71 – when weather, ground conditions, and surface water extent in the flood plain permit.
- Collect groundwater samples from monitoring wells MW-03BR, MW-29S, and MW-29TZ – July 2019.
- Download and monitor water level transducers/data loggers in monitoring wells and Reedy River stage from a United States Geological Survey (USGS) stream gaging station located downstream of the site – quarterly.

If you have any questions regarding this submittal, please contact me at 980.373.2663 or by email at Richard.Powell2@duke-energy.com.

Sincerely,

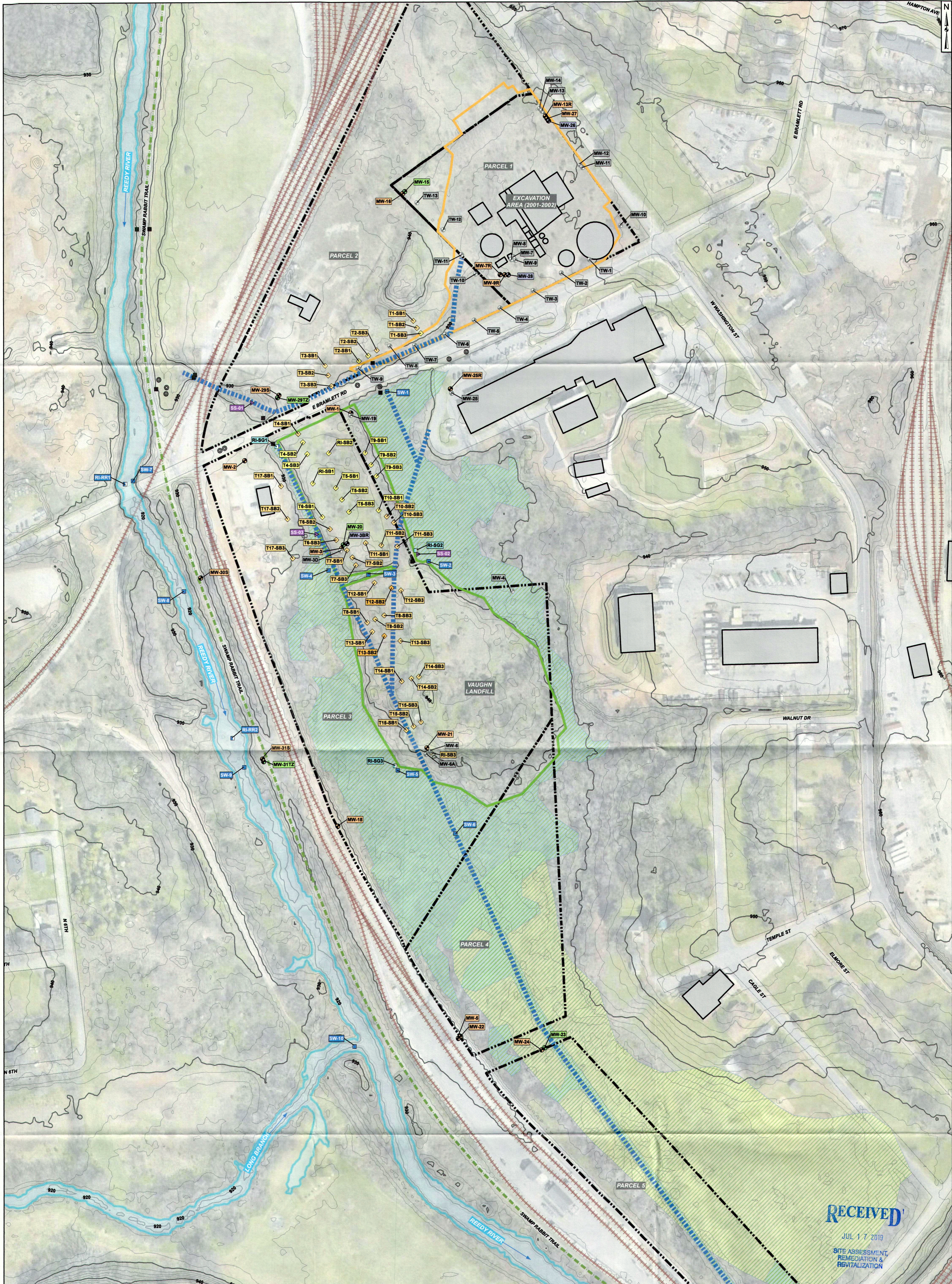
Richard E. Powell

Richard E. Powell, P.G.
Senior Environmental Specialist

Attachments:

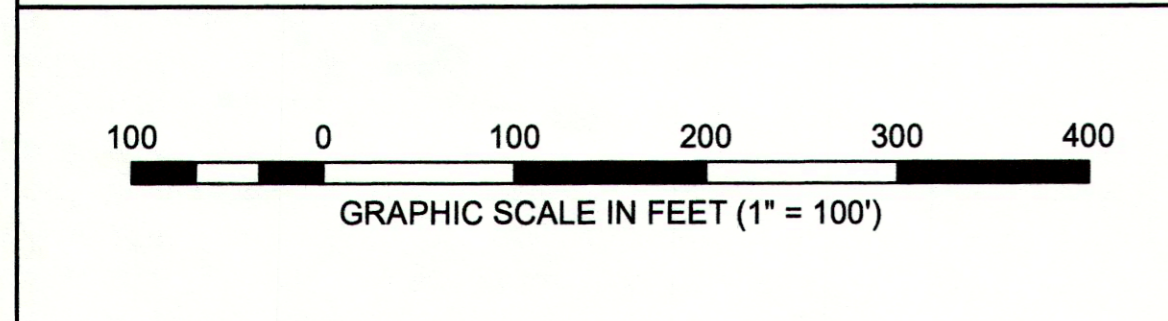
Figure 1 – Site Layout Map

cc: Kevin Boland, CSXT
Daniel Schmitt, Esq., CSXT
Ty Houck, Greenville County
Todd Plating, SynTerra




- LEGEND**
- WELL SCREENED IN SHALLOW ZONE
 - WELL SCREENED IN TRANSITION ZONE
 - WELL SCREENED IN BEDROCK ZONE
 - WELL ABANDONED
 - SURFACE WATER/SEDIMENT SAMPLE LOCATION
 - STAFF GAUGE
 - RIVER GAUGE
 - SHEEN
 - MANHOLE
 - CULVERT
 - ◇ SOIL BORING - NO VISUAL IMPACTS; NO ODOUR
 - ◇ SOIL BORING - OBSERVED NAPL
 - ◇ SOIL BORING - OBSERVED TAR-LIKE MATERIAL
 - ROAD
 - FORMER AND/OR CURRENT DRAINAGE DITCH (1984)
 - SWAMP RABBIT TRAIL
 - RAILROAD
 - TOPOGRAPHIC CONTOURS (10' INTERVAL)
 - TOPOGRAPHIC CONTOURS (2' INTERVAL)
 - BUILDING
 - EXCAVATED AREA (2001-2002)
 - VAUGHN LANDFILL BOUNDARY
 - HYDROLOGY
 - PARCEL BOUNDARY
 - WETLANDS (USFWS)
 - WETLANDS (AES)

- NOTES:**
- 1 SURFACE WATER LOCATIONS, FORMER DRAINAGE DITCHES, EXCAVATION AREA, AND VAUGHN LANDFILL BOUNDARY FROM ERM GROUNDWATER REMEDIAL INVESTIGATION WORK PLAN, APRIL 13, 2018. THESE LAYERS ARE GEOREFERENCED AND APPROXIMATE.
 - 2 MONITORING WELL LOCATIONS AND ELEVATIONS SURVEYED BY A SOUTH CAROLINA LICENSED PROFESSIONAL LAND SURVEYOR.
 - 3 TOPOGRAPHIC CONTOURS FOR GREENVILLE COUNTY FROM SC DNR.
 - 4 PROPERTY BOUNDARIES SOURCED FROM GREENVILLE COUNTY.
 - 5 WETLANDS (USFWS) BY US FISH AND WILDLIFE NATIONAL WETLAND INVENTORY; WETLANDS (AES) DELINEATED IN FEBRUARY 1996 BY APPLIED ENGINEERING AND SCIENCE, INC.
 - 6 SWAMP RABBIT TRAIL CENTERLINE FROM CITY OF GREENVILLE.
 - 7 AERIAL PHOTOGRAPHY OBTAINED FROM GOOGLE EARTH PRO ON MAY 3, 2019. AERIAL WAS COLLECTED ON MARCH 12, 2018.
 - 8 DRAWING HAS BEEN SET WITH A PROJECTION OF SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM FIPS 3800 (NAD83 INTERNATIONAL FEET).




 148 RIVER STREET,
 SUITE 220
 GREENVILLE, SC 29601
 864-421-9999
 www.synterracorp.com


 526 S. CHURCH ST.
 CHARLOTTE, NC 28202
 www.dukeenergy.com

DRAWN BY: A. FEIGL/T. KING/B. YOUNG
 CHECKED BY: M. MASTBAUM
 PROJECT MANAGER: T. PLATING
 CREATED DATE: 05/03/2019
 REVISED DATE: 06/09/2019

FIGURE 1
SITE LAYOUT MAP
FORMER BRAMLETTE MGP SITE
EAST BRAMLETTE ROAD
GREENVILLE, SOUTH CAROLINA

RECEIVED
 JUL 17 2019
 SITE ASSESSMENT, REMEDIATION & REVITALIZATION

DUKE ENERGY CAROLINAS/800 DUKE REMEDIATION GROUP/04 BRAMLETTE MGP/S/2019 RWP-A/FIG 1-2 SITE LAYOUT MAP/MX