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October 15, 2021

Mr. Greg Cassidy 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

SUBJECT: Quarterly Progress Report – Third Quarter 2021 Former Bramlette Manufactured Gas Plant 400 East Bramlette Road Greenville, South Carolina VCC 16-5857-RP

Dear Mr. Cassidy:

This Quarterly Progress Report pertaining to the Former Bramlette Manufactured Gas Plant (MGP) site has been prepared in accordance with the requirements of the Responsible Party Voluntary Cleanup Contract (VCC 16-5857-RP) between Duke Energy Carolinas, LLC (Duke Energy) and the South Carolina Department of Health and Environmental Control (SCDHEC), dated July 29, 2016. As required in the VCC, this Quarterly Progress Report summarizes:

- 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
- Work to be performed during the next reporting period

The work was conducted in accordance with the following approved work plans:

- Remedial Investigation Work Plan Addendum (approved on August 6, 2019)
- Interim Surface Water Best Management Practice Work Plan (approved on March 31, 2021)

# Work Performed During this Reporting Period

Work performed during the third quarter (July 1 through September 30, 2021) is summarized in the table below. A site layout map is included as **Figure 1**.

Date	RI Activity
July 30, 2021	Remedial Investigation Report Addendum – Submitted
August 2021	Site Maintenance – Maintained access to gravel roads and all monitoring wells prior to semiannual monitoring event.
September 1, 2021	Semiannual Monitoring Report – Submitted
September 2021	<b>Semiannual Monitoring Event</b> – Completed groundwater and surface water monitoring between September 2, 2021 and September 15, 2021.
July through September 2021	<b>Sorbent Boom Inspection</b> –Inspected and maintained sorbent booms at five locations.
September 2021	<ul> <li>Interim BMP Installation <ul> <li>Mobilized to site on September 14, 2021</li> <li>Completed installation of turbidity curtain in drainage channel through the Vaughn Landfill on Parcel 3 on September 15, 2021</li> <li>Completed rock check dam construction in Ditch 4 on September 27, 2021</li> <li>Began removal of rip rap in ditch south of Transflo property for concrete cloth installation on September 28, 2021</li> </ul> </li> </ul>
September 2021	Water Level/Data Loggers – Downloaded and redeployed data loggers (Figure 2 through Figure 5).

## Summary of Test and Sampling Results Generated During this Reporting Period

Test and sampling results for work performed during the third quarter (July 1 through September 30, 2021) are summarized below:

- Groundwater and surface water samples were collected from 69 monitoring wells and 17 surface water locations for analysis of volatile organic compounds (VOC) and semi-volatile organic compounds (SVOCs). Natural attenuation parameter analysis was performed on samples collected from select monitoring wells as described in the Semiannual Monitoring Report. Laboratory analytical data are not available at the time of this submittal and will be presented in the fourth quarter 2021 Progress Report.
- A laboratory fire occurred at the Pace Analytical Huntersville location on September 19, 2021. Approximately half of the semiannual monitoring event

samples were affected by the fire. Those samples are to be recollected and resubmitted for analysis.

Hydrographs of groundwater level measurements in wells instrumented with data logging pressure transducers are provided in **Figure 2 through Figure 5**, observations are summarized below:

- Groundwater levels in the shallow, transition, and fractured bedrock flow zones correlate to precipitation events indicating a groundwater recharge response.
- Groundwater elevation at MW-30TZ along the Swamp Rabbit Trail correlates to the Reedy River staff gauge indicating connectivity between the shallow flow system and the Reedy River.
- Seasonal high groundwater elevations occur in the spring (March) and seasonal low groundwater elevation occurs in the fall (September).

Environmental Problems Identified During Reporting Period and their Resolution No problems were identified during this reporting period.

### Work to be Performed During the Next Reporting Period (fourth quarter 2021)

The following activities are scheduled to be conducted during the fourth quarter of 2021 (October 1 through December 31, 2021). The proposed schedule is subject to change based on safe work practices, weather conditions, site access, availability of subcontractors, and other unforeseen delays. Field work notifications will be provided in accordance with the VCC and access agreements.

Proposed Date	RI Activity
October 2021	Submit Quarterly Progress Report – Third Quarter 2021
October 2021	Complete Interim BMP Installation
October 2021	Recollect samples from groundwater monitoring wells and surface water locations
Quarter 4 2021	Review and respond to SCDHEC comments regarding the RI Report Addendum
Quarter 4, 2021	Inspect and maintain surface water Interim Best Management Practices (BMPs) per approved work plan

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 C. Powell

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

Cc: Kevin Boland, CSXT Daniel Schmitt, Esq., CSXT Ty Houck, Greenville County William W. Brown, Legacy School Properties, LLC Todd Plating, SynTerra

### Attachments: Figures

Figure 1 – Site Layout Map Figure 2 – MW-29 Cluster Hydrographs Figure 3 – Vaughn Landfill Hydrographs Figure 4 – MW-03 Hydrographs Figure 5 – Reedy River and Upgradient Hydrographs **FIGURES** 











