



HALEY & ALDRICH, INC.
400 Augusta Street
Suite 100
Greenville, SC 29601
864.214.8750

May 13, 2025
File No. 0206190

South Carolina Department of Environmental Services
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201

Attention: Greg Cassidy

Subject: Well Abandonment Plan
CSXT Bramlett Road Site
400 East Bramlett Road
Greenville, South Carolina
VCC 16-5857-RP

Dear Mr. Cassidy:

This *Well Abandonment Plan* was prepared on behalf of Duke Energy Carolinas, LLC for the CSXT Bramlett Road Site (Site) in response to the Record of Decision (ROD) issued in April 2025. In the ROD, South Carolina Department of Environmental Services (SCDES) selected Remedial Alternative 5 as the preferred remedial alternative for the Site. This remedial alternative includes the excavation of impacted soils/sediments south of East Bramlett Road and complete removal of the Vaughan Landfill. Additionally, a small area of impacted soil north of East Bramlett Road will be removed. The purpose of this plan is to begin preparation for remediation with the abandonment of monitoring wells within areas to be excavated.

WELL SELECTION

Haley & Aldrich, Inc. reviewed monitoring well locations relative to the planned limits of excavation. The current well network consists of 70 monitoring wells. Fifteen of these wells are located within the proposed excavation area south of East Bramlett Road. One well (MW-35BR) is located in the area of the proposed limited excavation north of East Bramlett Road. Abandonment of these 16 wells is necessary to prepare the Site for remediation. **Figure 1** shows the wells proposed to be abandoned. **Table 1** lists the wells to be abandoned and the associated construction details.

METHODS FOR WELL ABANDONMENT

Monitoring wells will be abandoned in accordance with South Carolina Well Standards (South Carolina Code of Regulations § 61-71). Monitoring wells less than 20 feet will be filled from total depth to the land surface with bentonite-cement, neat cement, or 20 percent high solids sodium bentonite grout. Monitoring wells greater than 20 feet will be abandoned by forced injection of grout or pouring through

a tremie pipe starting at total depth and proceeding to the surface in one continuous operation. Protective well covers and concrete pads will be removed and properly disposed. Soil disturbed during well abandonment will be graded to roughly match the surrounding land surface. A water well record form 1903 or other forms provided and/or approved by SCDES will be completed and submitted to SCDES within 30 days of abandonment.

SCHEDULE

Monitoring well abandonment will be completed after updated agreements with SCDES and other stakeholders have been finalized. We anticipate this work could be completed in the fourth quarter of 2025.

If you have any questions regarding this plan, please contact Rick Powell at Duke Energy at 980.373.2663 or Richard.Powell2@duke-energy.com.

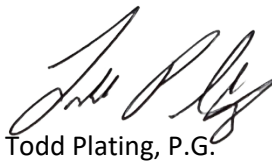
Sincerely yours,
HALEY & ALDRICH, INC.



Casey M. Portela, P.G.

License # 2785

Project Manager, Geologist



Todd Plating, P.G.

License # 2620

Project Principal

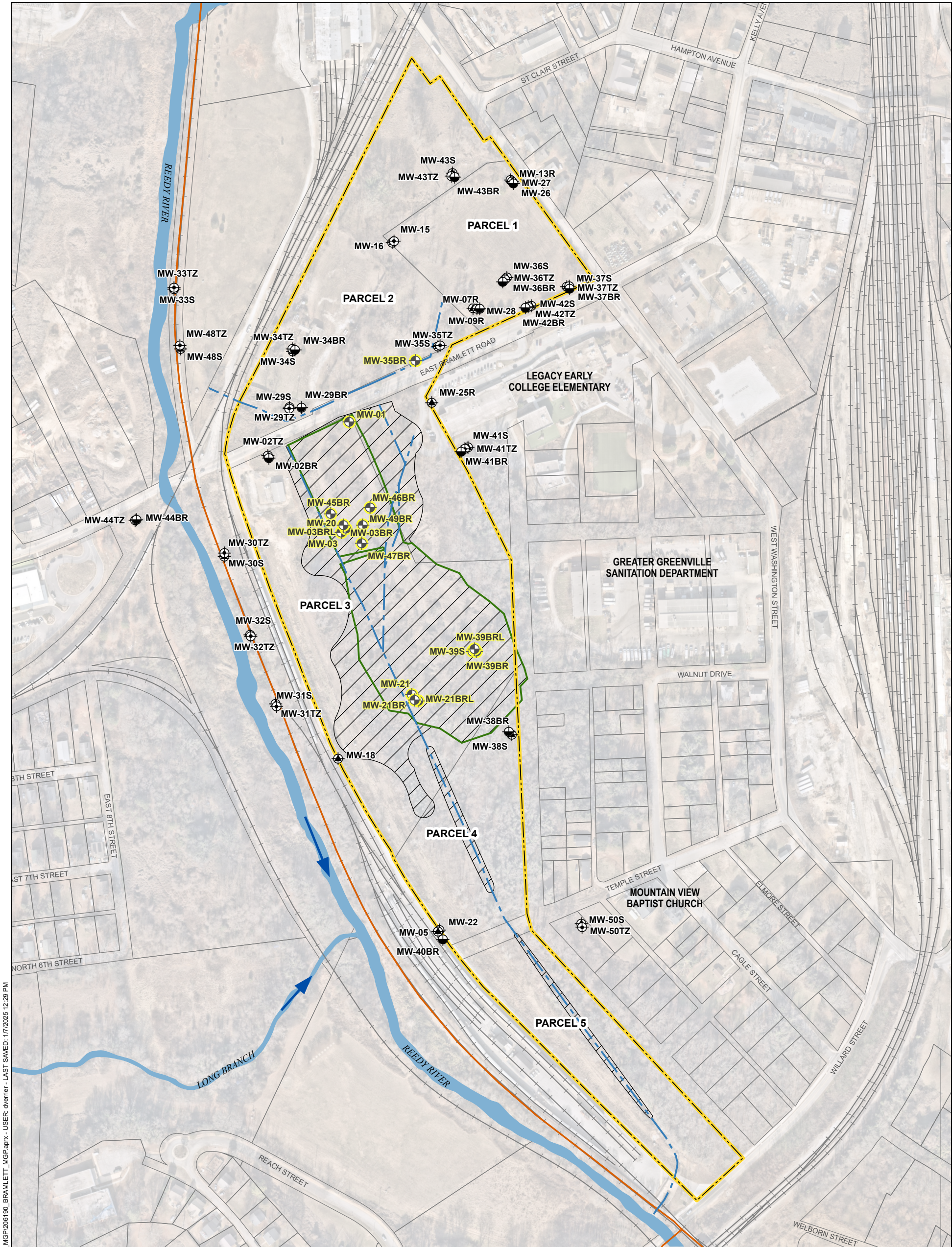
Attachments

Figure 1 – Monitoring Well Abandonment Plan

Table 1 – Wells To Be Abandoned

c: Duke Energy; Attn: Rick Powell
CSXT; Attn: Kevin Boland
Greenville County; Attn: Ty Houck
Legacy School Properties, LLC; Attn: William W. Brown
ERM; Attn: Angie Grooms
Mountain View Baptist Church; Attn: Pastor Stacey Mills

https://haleyaldrich.sharepoint.com/sites/Duke-0206190.BramletteSC/Shared Documents/0206190.Bramlette SC/001_Routine programs/Deliverables/2025-05 Well Abandonment Plan/2025_05_13_Well Abandonment Plan_Bramlette MGP.docx



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LEGEND

- WELL SCREENED IN SHALLOW ZONE
- WELL SCREENED IN TRANSITION ZONE
- WELL SCREENED IN BEDROCK ZONE
- WELL TO BE ABANDONED
- RAILROAD
- VAUGHN LANDFILL
- SWAMP RABBIT TRAIL
- FORMER DRAINAGE DITCH, 1964
- SURFACE WATER FLOW DIRECTION

- PROPOSED EXCAVATION AREA (FFS ALTERNATIVE 5)
- SITE BOUNDARY
- PARCEL BOUNDARY

NOTES

- ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
- DEFINITIONS:
CSXT = CSX TRANSPORTATION
MGP = MANUFACTURED GAS PLANT
MCL = MAXIMUM CONTAMINANT LEVEL
FFS = FOCUSED FEASIBILITY STUDY, GEOSYNTEC 2023
SCDES = SOUTH CAROLINA DEPARTMENT OF ENVIRONMENTAL SERVICES
- PARCEL DATA SOURCE: GREENVILLE COUNTY
- AERIAL IMAGERY SOURCE: NEARMAP, 1 JUNE 2024



0 270 540
SCALE IN FEET

**HALEY
ALDRICH**

CSXT BRAMLETT ROAD SITE
400 EAST BRAMLETT ROAD
GREENVILLE, SOUTH CAROLINA

MONITORING WELL
ABANDONMENT PLAN

MAY 2025

FIGURE 1

TABLE 1**WELLS TO BE ABANDONED**

CSXT BRAMLETT ROAD SITE

400 EAST BRAMLETT ROAD

GREENVILLE, SOUTH CAROLINA

Well ID	Zone	TOC Elevation (ft-NAVD 88)	Screen Interval (ft bls)		NAPL Thickness (ft)	Planned Action
			Top	Bottom		
MW-1	Shallow	934.31	5	15	---	abandon
MW-3	Shallow	935.53	9	14	---	abandon
MW-3BR	Bedrock	935.87	59.5	64.5	---	abandon
MW-3BRL	Bedrock	936.49	99	104	---	abandon
MW-20	Transition Zone	935.71	20	25	---	abandon
MW-21	Shallow	934.53	5	18	---	abandon
MW-21BR	Bedrock	930.89	37	42	---	abandon
MW-21BRL	Bedrock	931.51	60	65	---	abandon
MW-35BR	Bedrock	931.40	140	150	---	abandon
MW-39BR	Bedrock	937.92	45	50	---	abandon
MW-39BRL	Bedrock	937.91	75	80	---	abandon
MW-39S	Shallow	938.60	9	24	---	abandon
MW-45BR	Bedrock	936.14	80	90	---	abandon
MW-46BR	Bedrock	934.01	170	180	---	abandon
MW-47BR	Bedrock	935.96	110	120	---	abandon
MW-49BR	Bedrock	934.71	OB	OB	5.33	abandon

Notes:

--- = data is not available or not applicable

ft bls = feet below land surface

NAPL = non-aqueous phase liquid

NAVD88 = North American Vertical Datum of 1988

OB = open borehole

TOC= top of casing