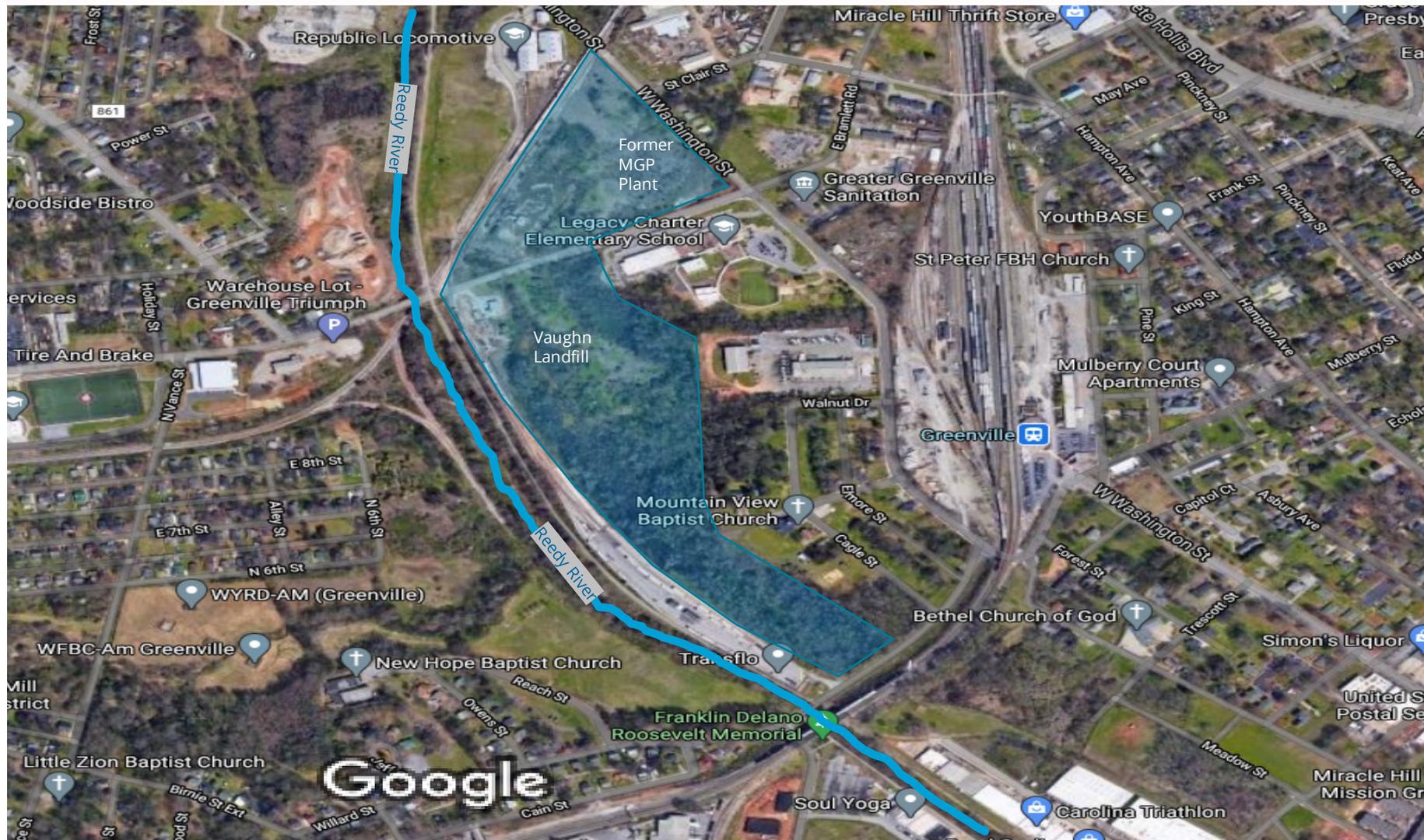




South Carolina Department of Health and Environmental Control

CSXT Bramlett Road MGP Site Community Meeting

March 3, 2022



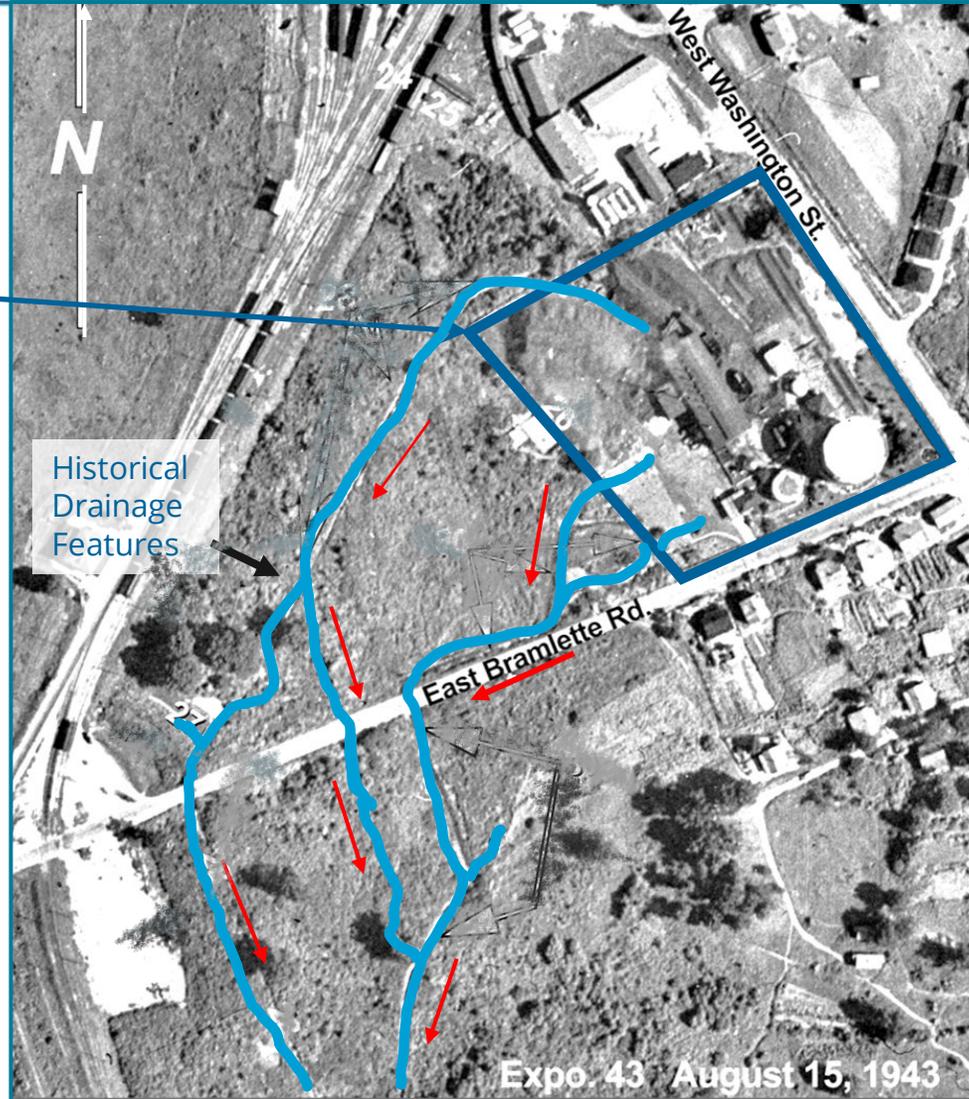
Agenda

- Remedial Investigation (RI) Addendum
- Neighborhood Sampling
- Best Management Practices (Duke)
- Next Steps

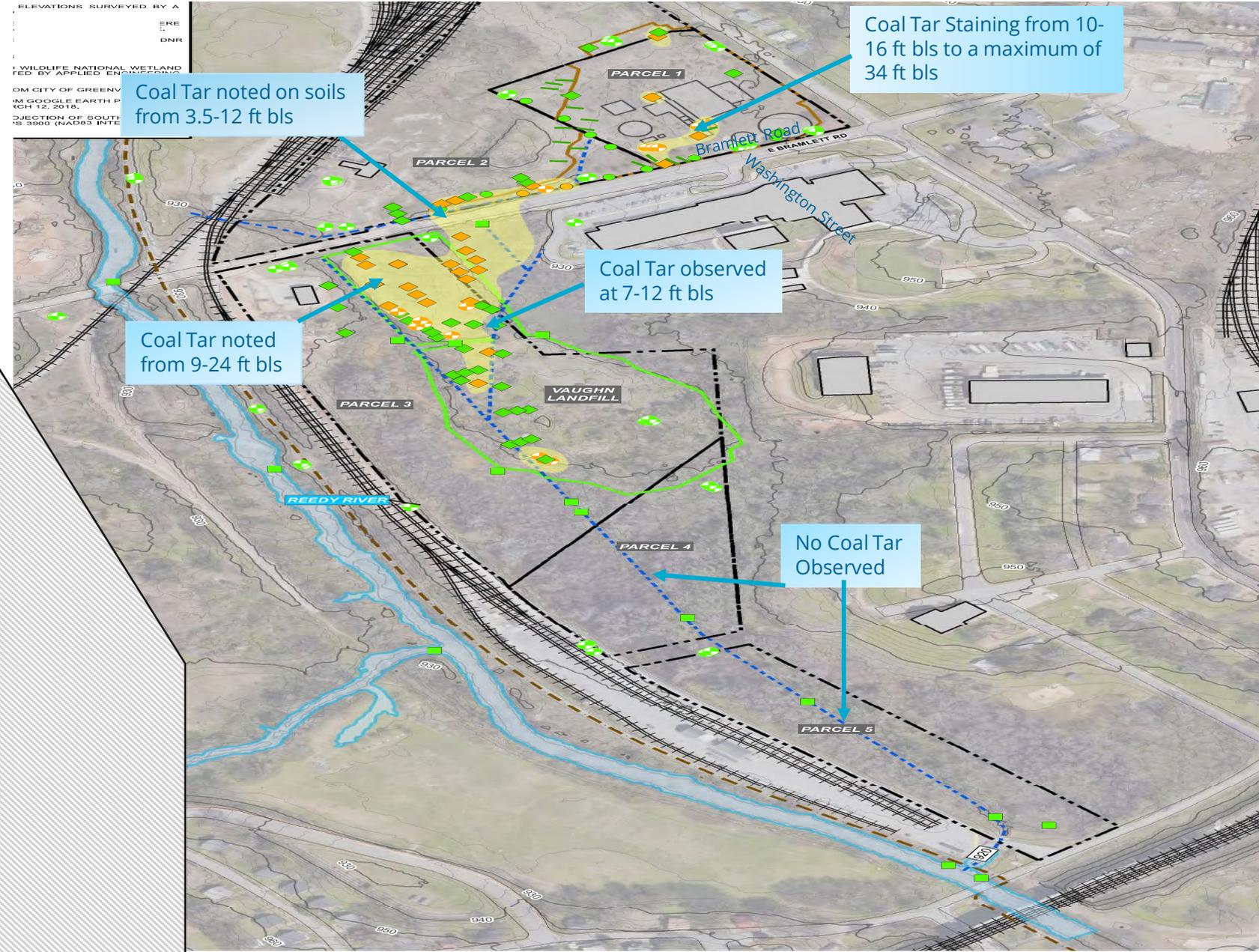
Site History

- Manufactured Gas Plant (MGP)
- Operated 1917 to 1952
- Demolished in 1958
- Migration pathway from MGP toward the south

 = Drainage Flow Direction



Pre-Addendum Sampling



LEGEND

- MONITORING WELL - NO VISUAL NAPL
- MONITORING WELL - VISUAL NAPL
- ◆ SOIL BORING - NO VISUAL NAPL
- ◆ SOIL BORING - VISUAL NAPL
- SURFACE WATER/ SEDIMENT SAMPLE LOCATION - NO VISUAL NAPL
- TEMPORARY MONITORING WELL - VISUAL NAPL
- TEMPORARY MONITORING WELL - NO VISUAL NAPL
- APPROXIMATE EXTENT OF VISUAL NAPL
- TEST PIT LINE- NO VISUAL NAPL
- VAUGHN LANDFILL BOUNDARY
- EXCAVATED AREA (2001-2002)
- FORMER DRAINAGE DITCH (1964)
- HYDROLOGY
- FORMER MGP OPERATIONAL STRUCTURES
- BUILDING
- PARCEL BOUNDARY
- TOPOGRAPHIC CONTOUR (10' INTERVAL)
- TOPOGRAPHIC CONTOUR (2' INTERVAL)
- SWAMP RABBIT TRAIL
- ROAD
- RAILROAD

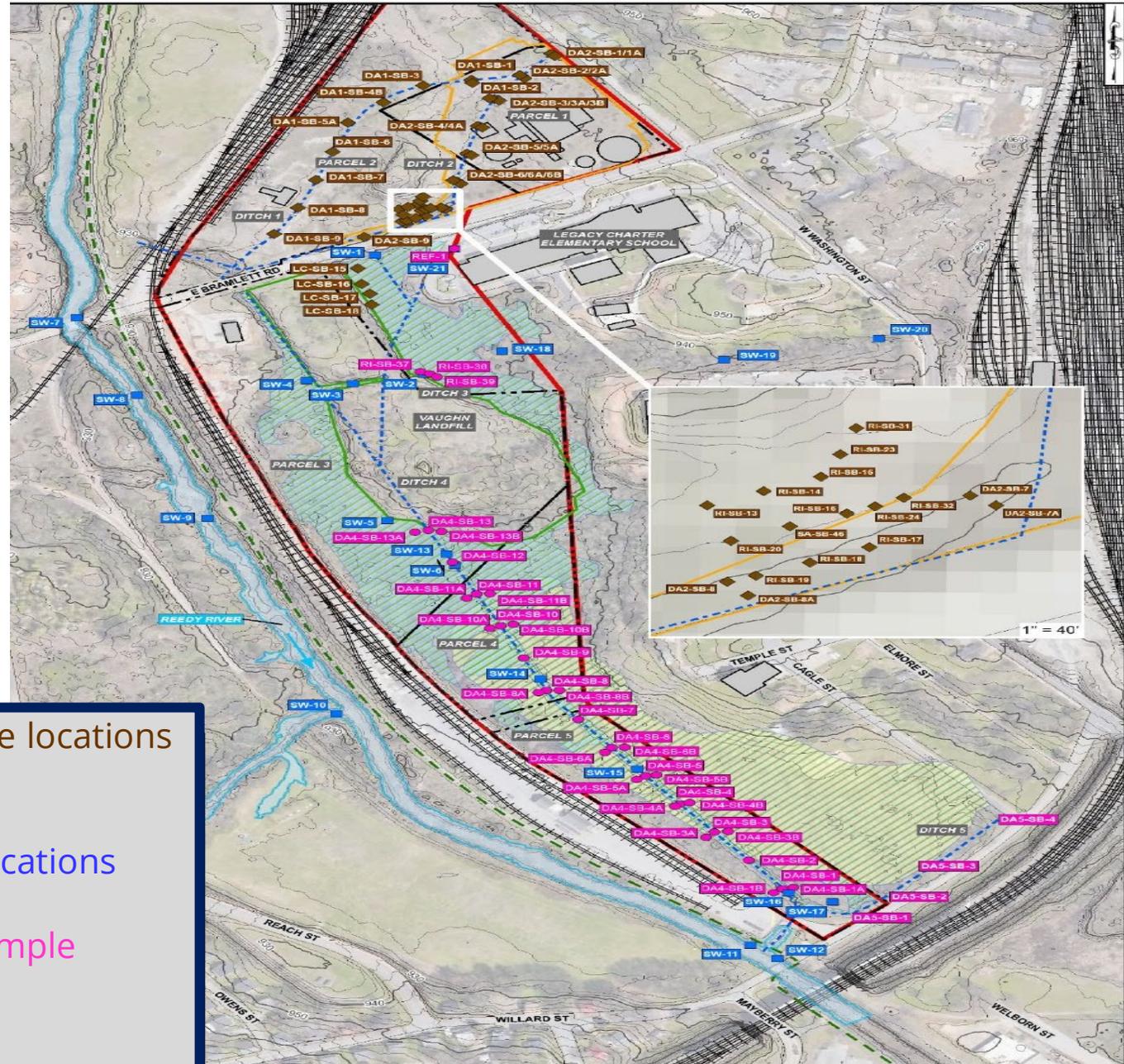
Remedial Investigation Work Plan Addendum

- Assess the Former Stormwater Ditches
- Collect sediment and soil samples along the ditches
- Define the extent of coal tar in ditches

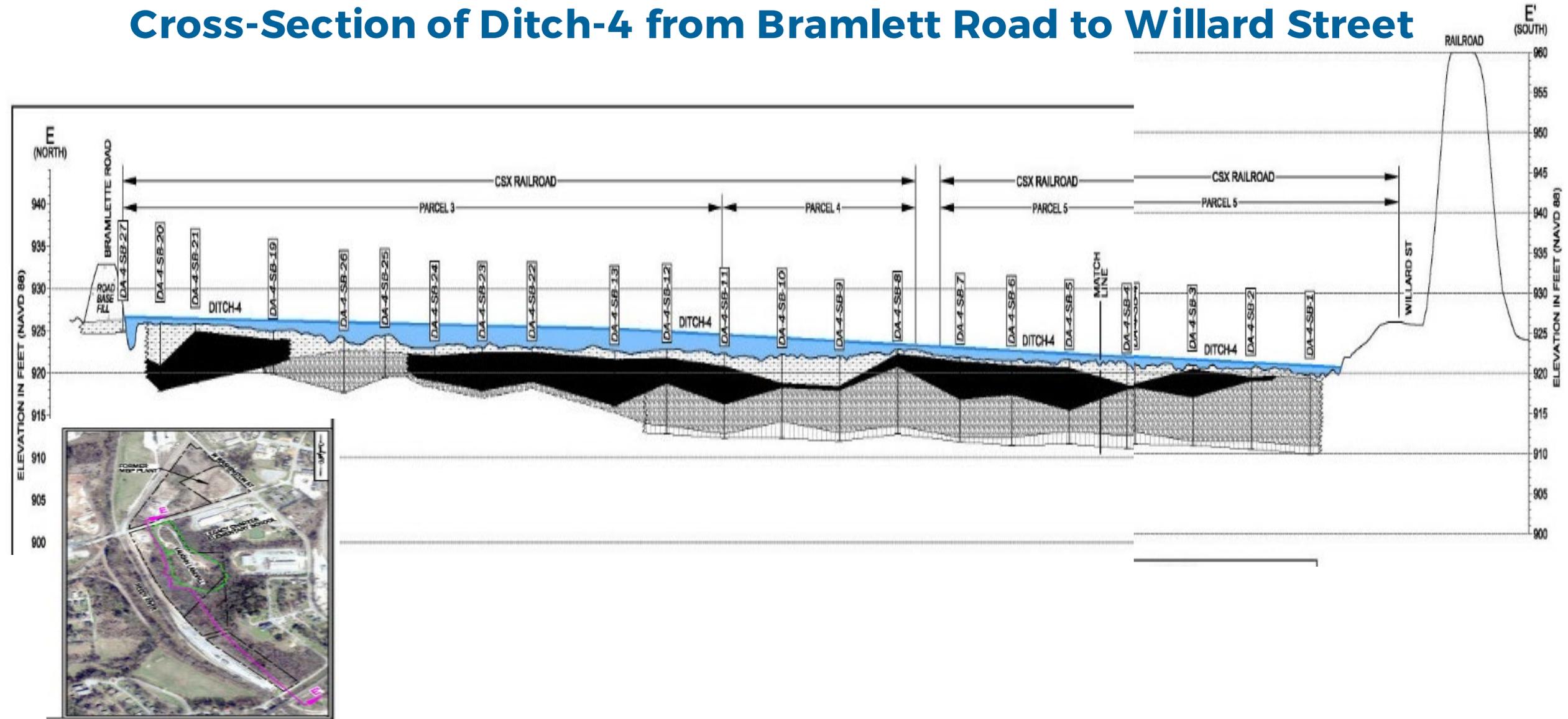
Brown dots are soil sample locations

Blue dots are surface water/sediment sample locations

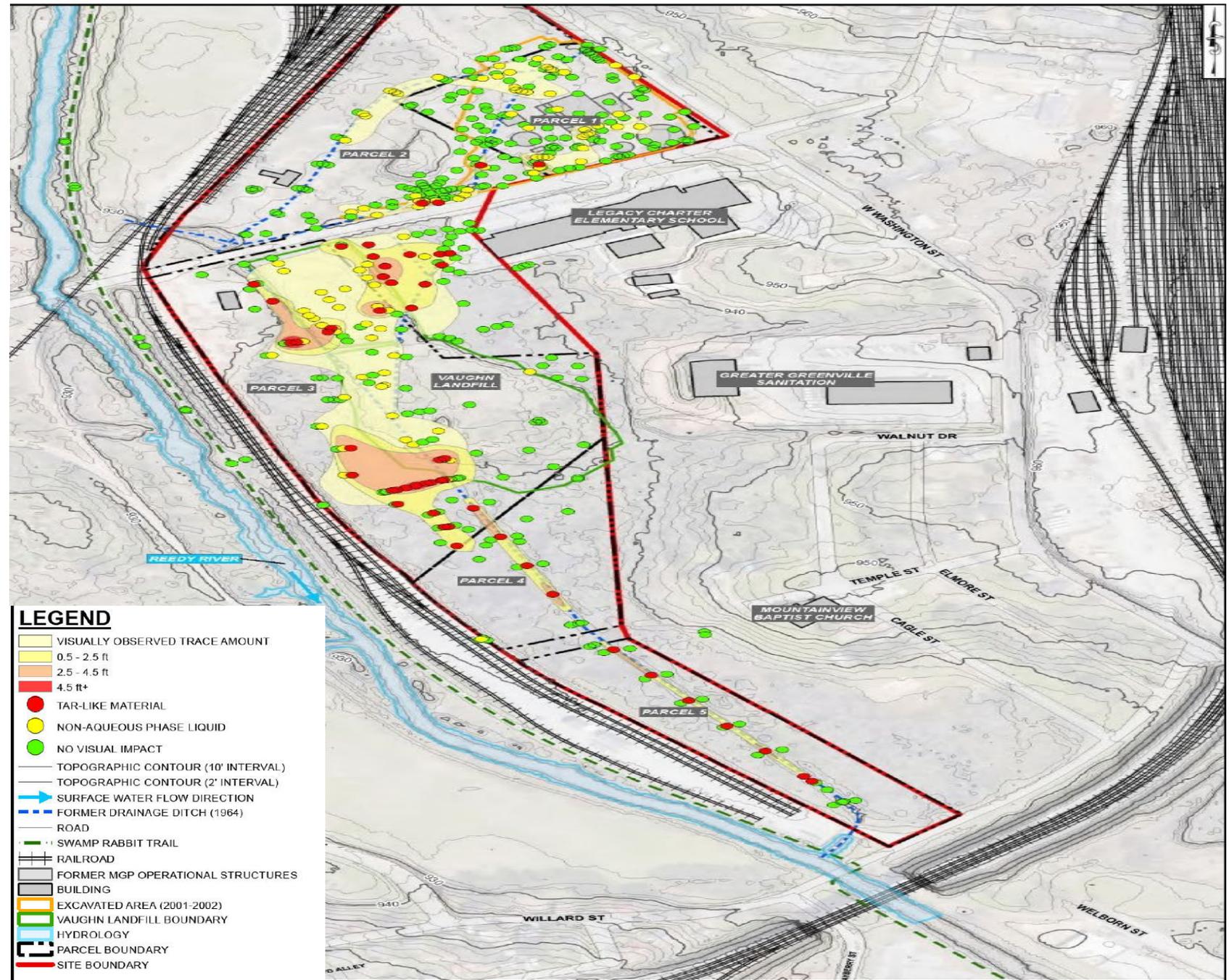
Pink dots are sediment sample locations



Cross-Section of Ditch-4 from Bramlett Road to Willard Street



Remedial Investigation Report Addendum Results - Sediment

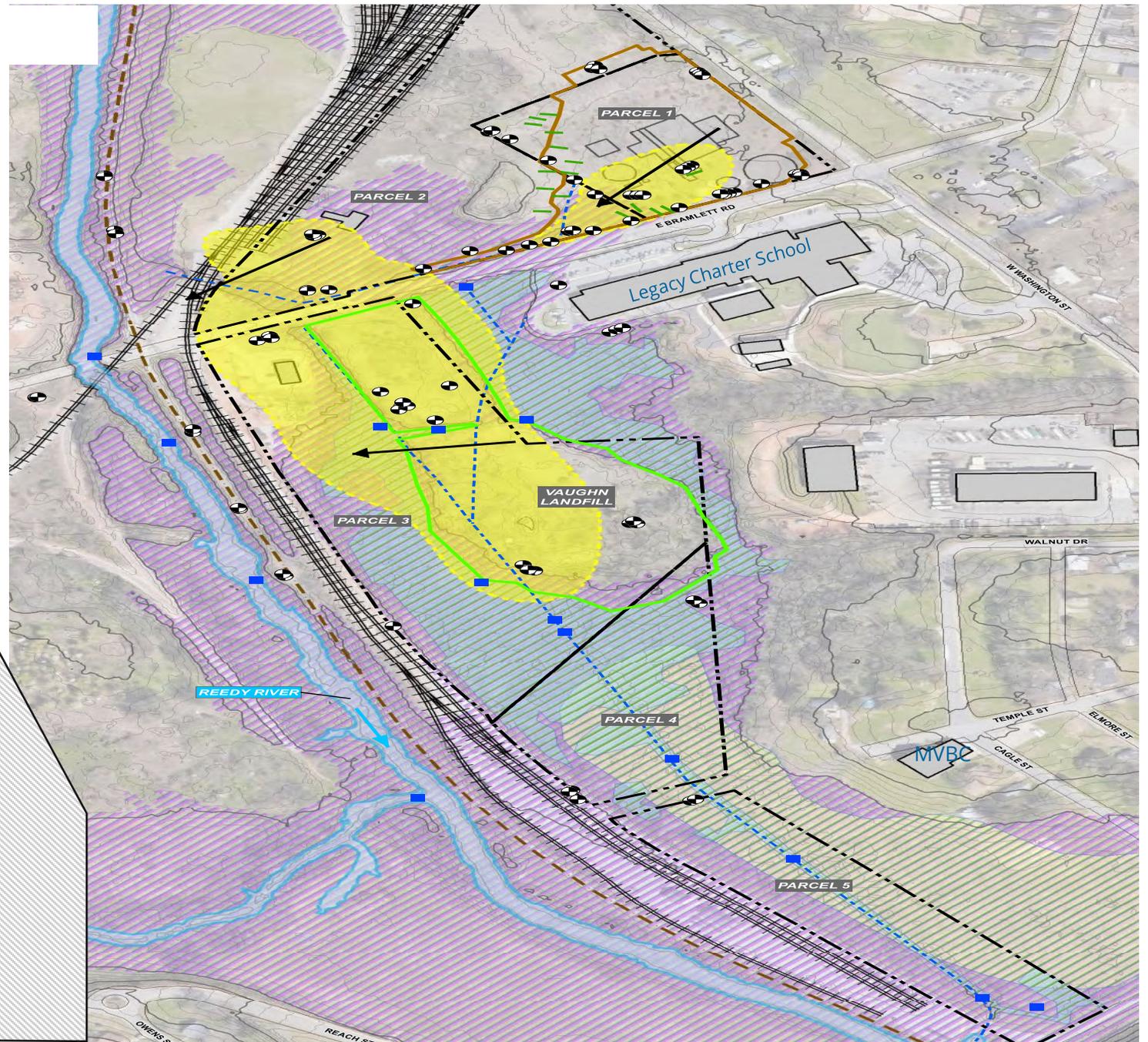


Remedial Investigation Report Addendum Results - Groundwater

- Impacted Groundwater is not discharging into the Reedy River
- Impacted Groundwater is beneath Parcels 1, 2, and 3

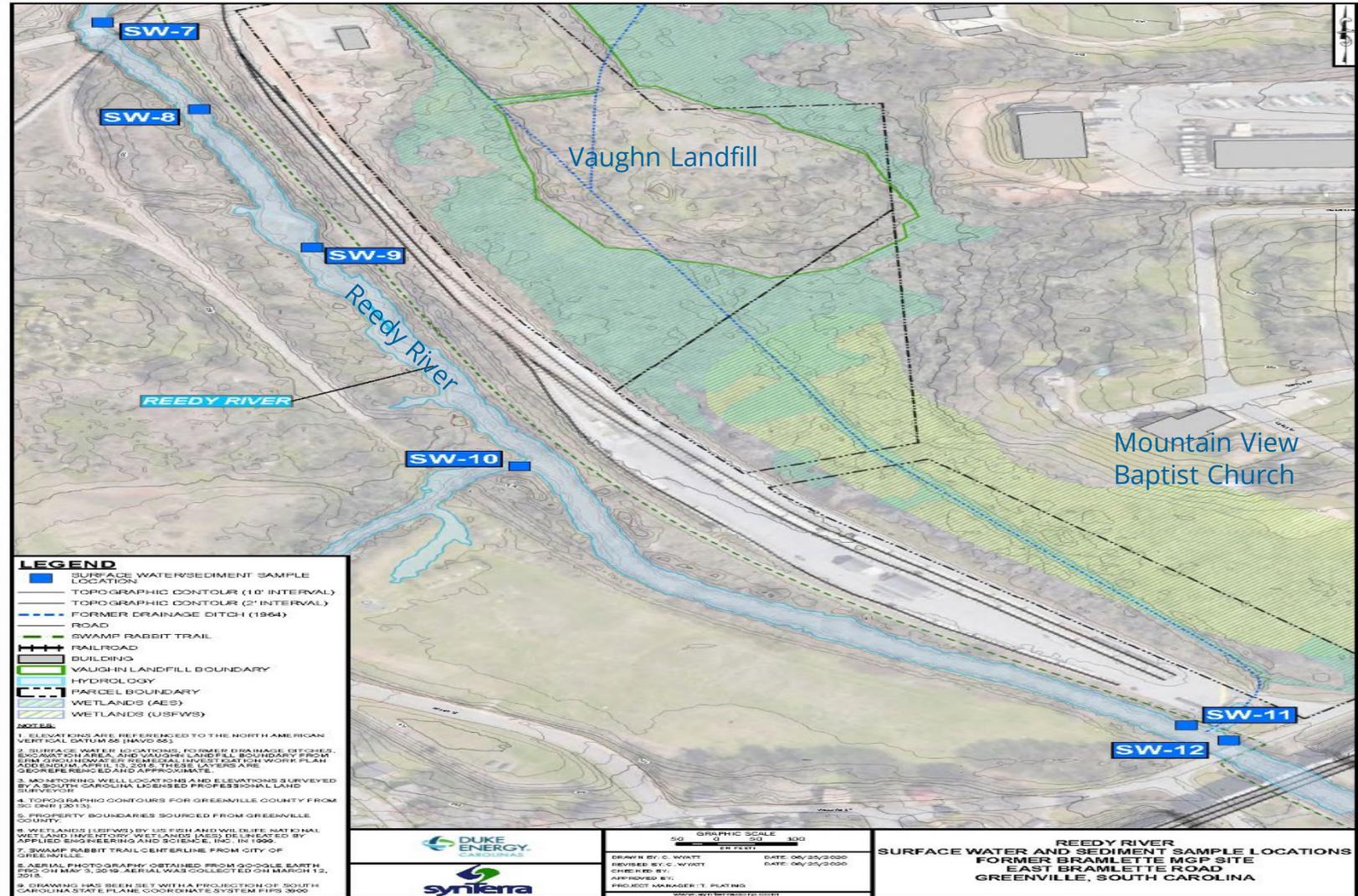
LEGEND

- MONITORING WELL
- SURFACE WATER/ SEDIMENT SAMPLE LOCATION
- TEST PIT LINE
- EXTENT OF AFFECTED GROUNDWATER
- GROUNDWATER FLOW DIRECTION
- VAUGHN LANDFILL BOUNDARY
- EXCAVATED AREA (2001-2002)
- - - FORMER DRAINAGE DITCH (1964)
- HYDROLOGY



Remedial Investigation Report Addendum Results - Surface Water

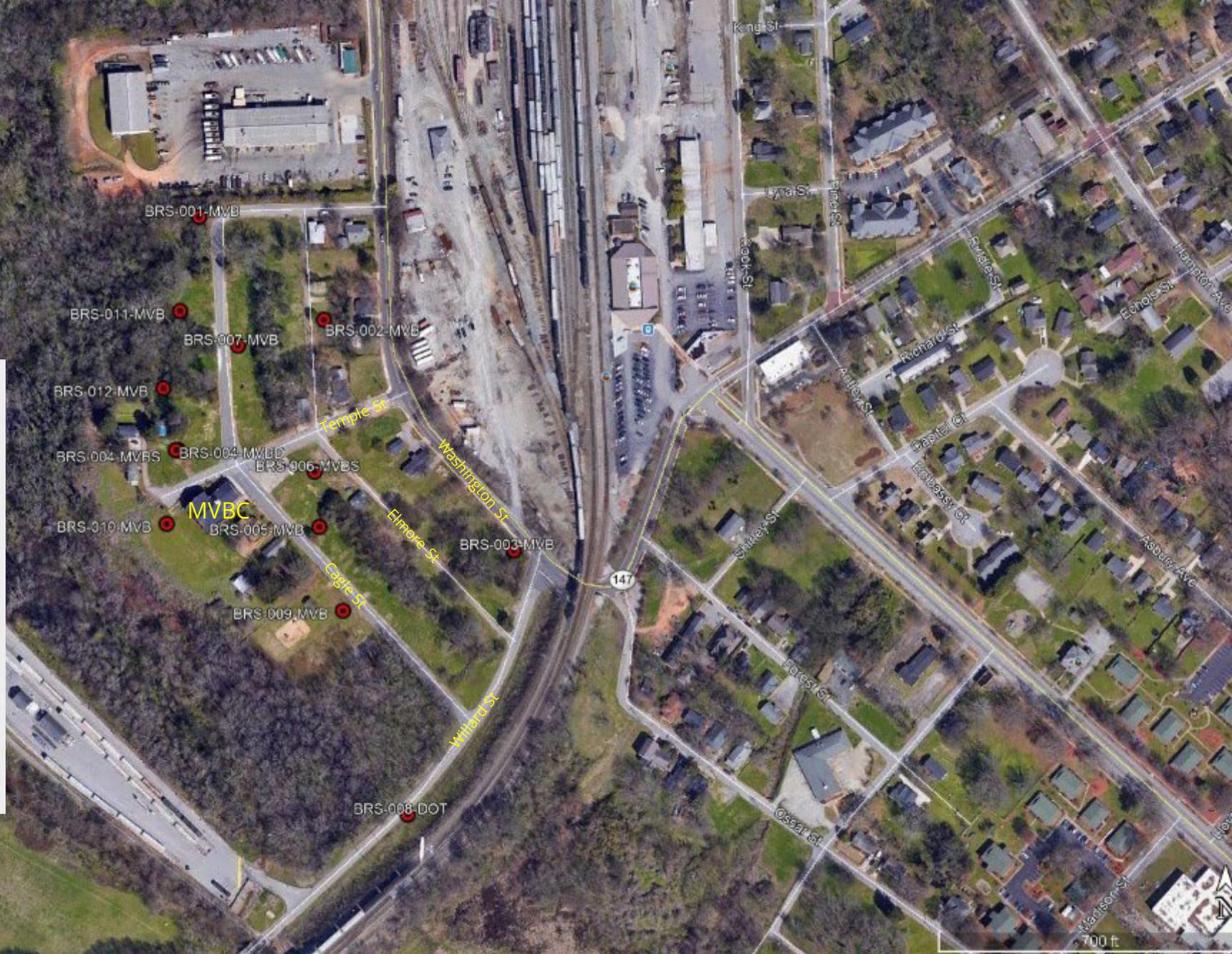
Surface Water Quality in the Reedy River is **not** being impacted.



Neighborhood Surface Soil Samples (Phase 1)

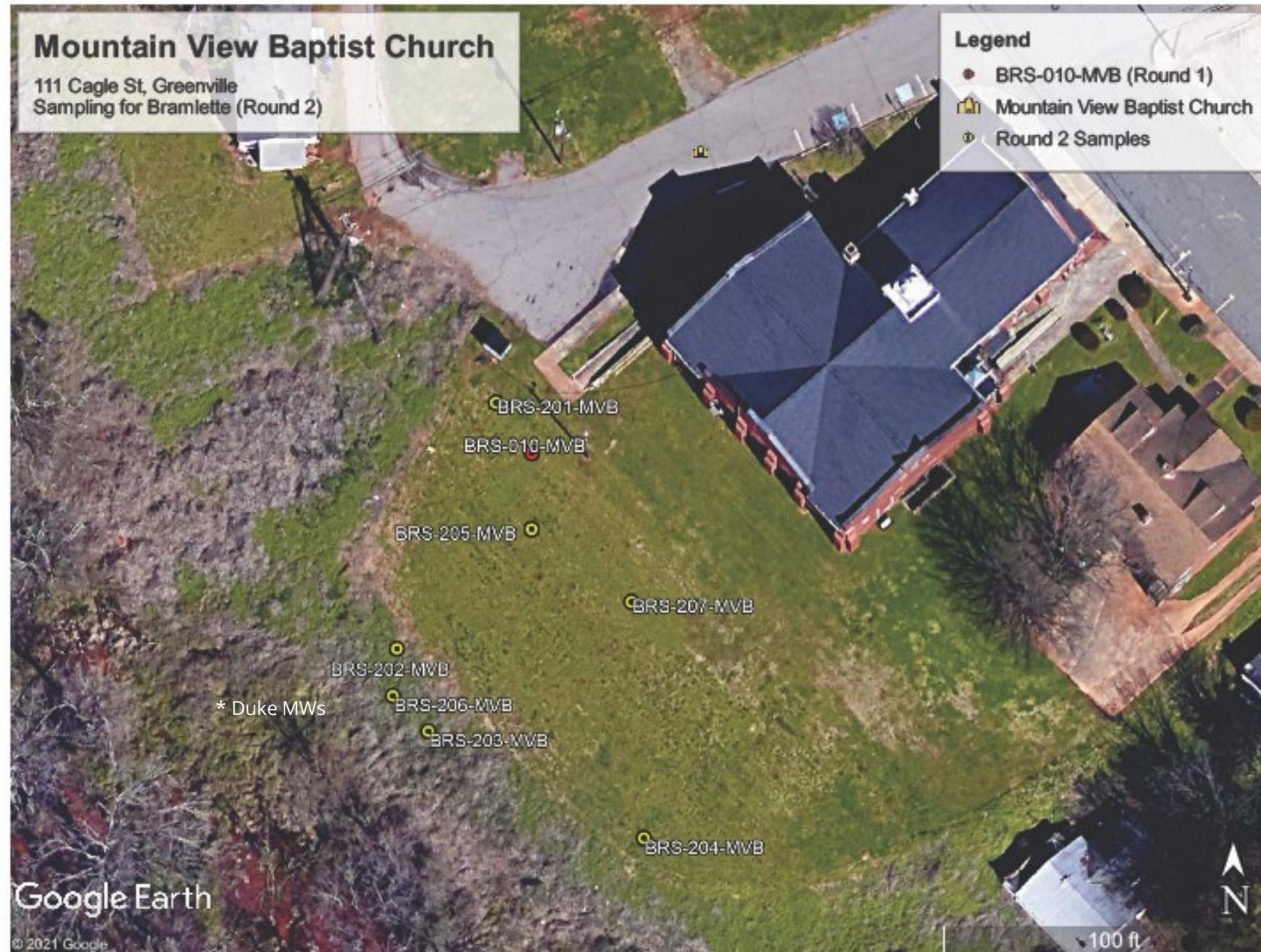
-DHEC collected soil samples from 14 locations in March 2021

-One sample behind Mountain View Baptist Church had elevated contamination above background levels



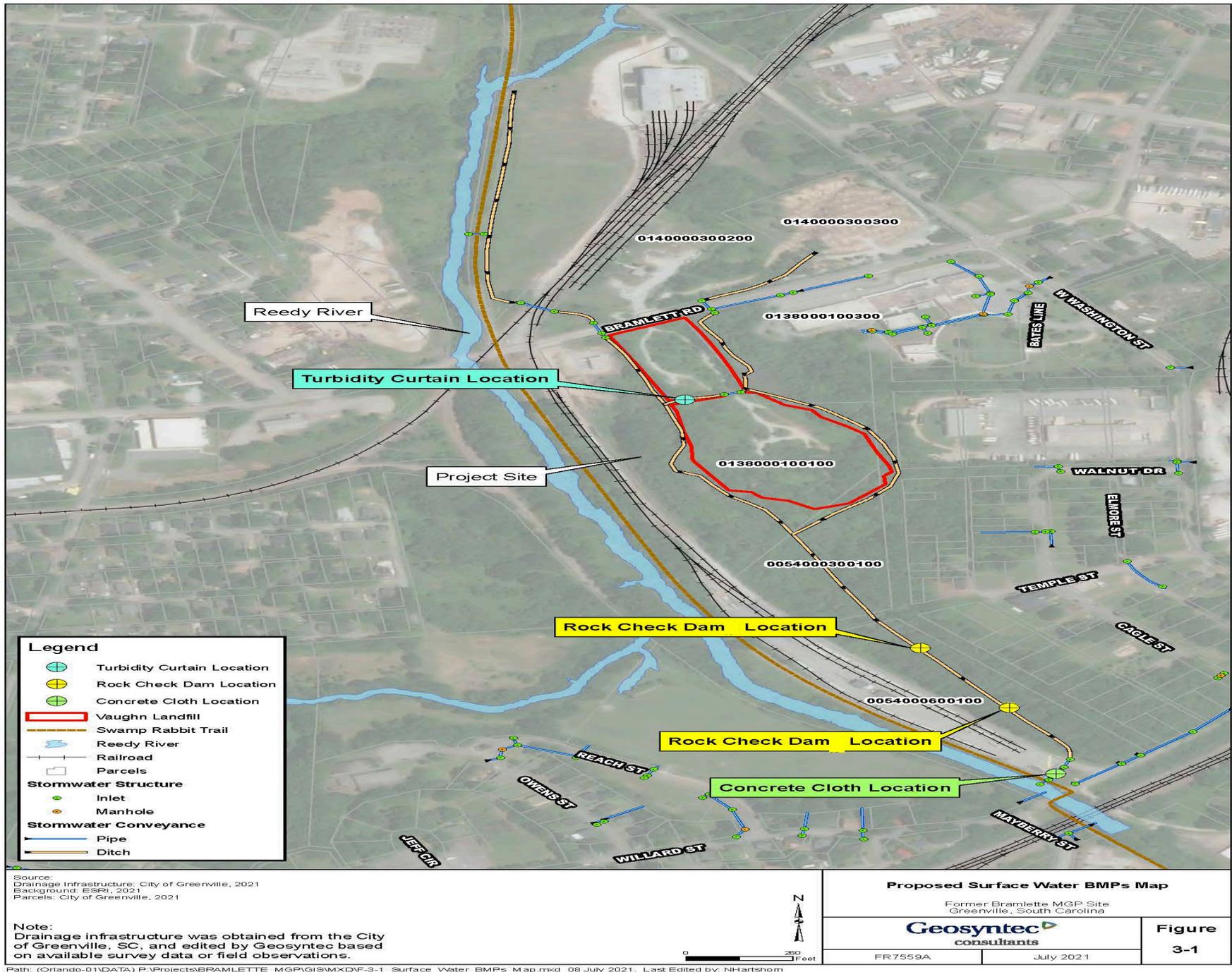
Neighborhood Surface Soil Sampling Phase 2

- 7 Additional Samples Collected at surface and at 2 feet
- Sample results were all within background levels
- Duke Energy installed shallow and deep monitoring wells
- Groundwater sampling results indicated no impacts



Duke installed Best Management Practices as interim measures

1. Turbidity Curtain
2. Rock Check Dams
3. Concrete Cloth used to replace rip rap near discharge to Reedy River



Turbidity Curtain on Parcel 3 (Vaughn Landfill)

- Turbidity Curtain rises and falls with
the water level within the ditch



Rock Check Dams

Dams are 167 feet apart within Parcel 5



Upstream rock check dam installation
During installation



Upstream rock check dam installation
Following heavy rain event



Downstream rock check dam installation
Following heavy rain event

Concrete Cloth used to replace rip rap in the ditch south of the Transflo Property

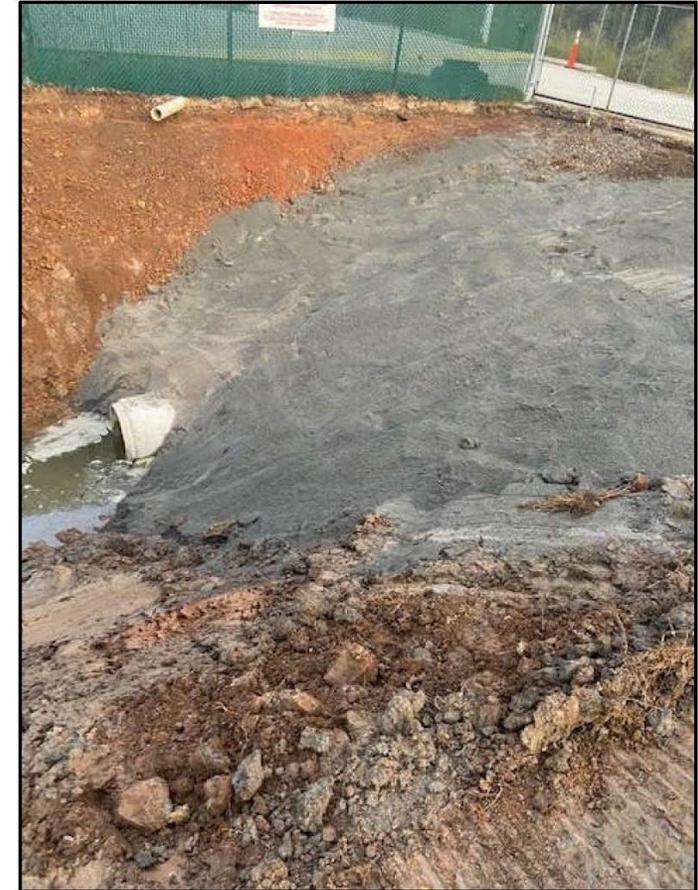
- Removed 257 tons of existing rip rap within the ditch
- Removed 1-foot of sediment from the ditch base



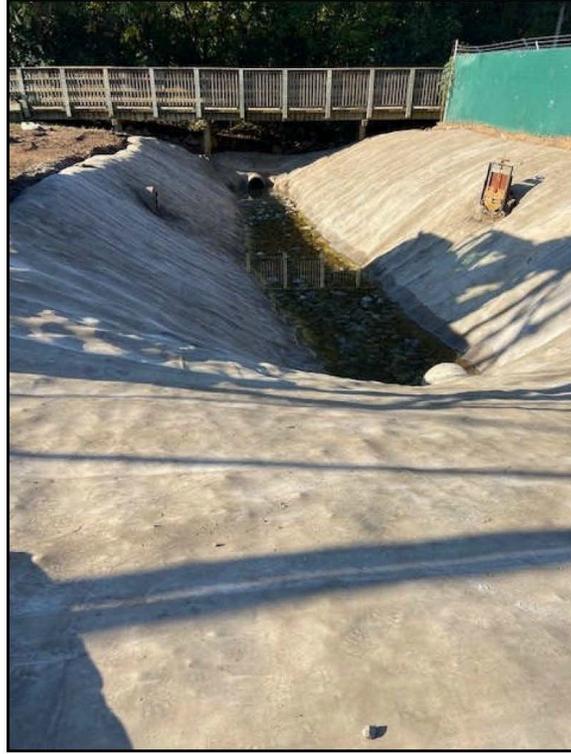
Culvert Ditch Before Work



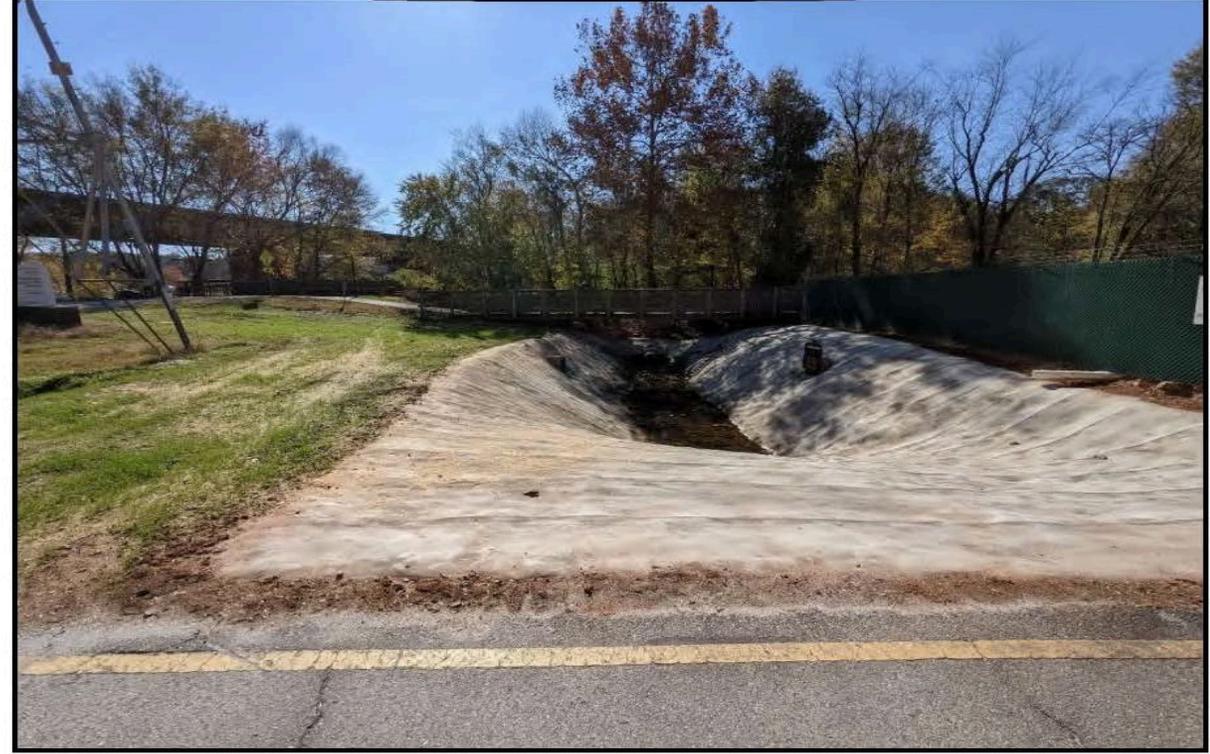
Concrete cloth installation
Following excavation of rip rap



Concrete cloth installation
Installation of culvert extension



Concrete cloth installation
Cloth installed



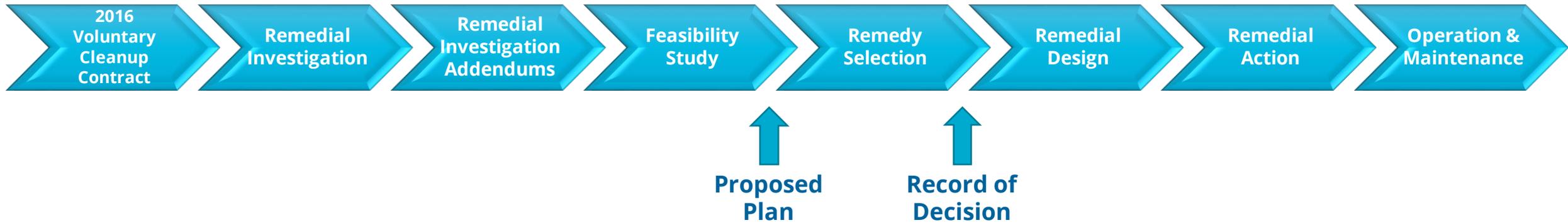
Landscaping - Graded and hydroseeded working area near concrete cloth installation

Concrete Cloth used to replace rip rap in the ditch south of the Transflo Property

- Removed 257 tons of existing rip rap and about 1-foot of sediment from the ditch base
- Added an 8-foot culvert extension

Superfund Process

We Are Here



What happens next?

- Remedial Investigation has been completed
- Evaluate remedial alternatives
- Responsible Parties will be engaged to discuss path forward
- Duke Energy will continue to conduct Semi-annual Site-wide groundwater and surface water monitoring and to maintain Interim Measures

CONTACT US

<https://scdhec.gov/bramlett>

**Lucas Berresford, Manager
State Voluntary Cleanup Program**

Stay Connected

