



REPORT ON UNDERGROUND STORAGE TANK
CLOSURE FOR U-5899

**PARCEL 21, 6652 UNIVERSITY PARKWAY, RURAL
HALL, NC**

WBS 44689.1.1
ESP Project No. 23-00235

Prepared For:
NCDOT Geotechnical Engineering Unit
1020 Birch Ridge Drive
Raleigh, NC 27610

Prepared By:
ESP Associates, Inc
7011 Albert Pick Road
Suite E
Greensboro, NC 27409

May 2, 2023



May 2, 2023

Mr. Craig Haden, PG
cehaden@ncdot.gov
Geotechnical Engineering Unit
North Carolina Department of Transportation
1020 Birch Ridge Drive
Raleigh, NC 27610

Reference: **REPORT ON UNDERGROUND STORAGE TANK CLOSURE FOR U-5899
PARCEL 21, 6652 UNIVERSITY PARKWAY, RURAL HALL, NC
ESP Project No. 23-00235**

TIP Number: U-5899
WBS Number: 44689.1.1
County: FORSYTH
Description: New Route from Forum Pkwy connector from SR 3955 (Forum Pkwy) to NC 66
(University Pkwy) in Rural Hall

Dear Mr. Haden:

ESP Associates, Inc. (ESP) is pleased to submit this report on our Underground Storage Tank (UST) Closure at the subject parcel. This work was performed in accordance with your Request for Proposal dated April 11, 2023 and our Cost Proposal dated April 21, 2023.

We appreciate the opportunity to assist you during this phase of the project. If you should have any questions concerning this report, or if we may be of further assistance, please contact us.

Sincerely,

ESP Associates, Inc.

Edward D. Billington, PG
Senior Managing Geophysicist



CRP/EDB

not considered Final unless all signatures are completed

Electronic submission via email



Table of Contents

1020 Birch Ridge Drive	0
1.0 SITE INFORMATION	1
1.1 Site Observations	1
2.0 CLOSURE PROCEDURES	1
2.1 UST Closure Preparation	1
2.2 AST Removal and Disposal	1
2.3 Residual Material Disposal.....	1
3.0 CONCLUSIONS AND RECOMMENDATIONS	2
4.0 LIMITATIONS	2

FIGURES

- Figure 1 Parcel 21, 6652 University Pkwy, Site Vicinity Map
- Figure 2 Parcel 21, 6652 University Pkwy, Site Photographs

APPENDICES

- Appendix A Tank and Material Disposal Manifests

1.0 SITE INFORMATION

Parcel 21 is located at 6652 University Parkway in Rural Hall, Forsyth County, North Carolina (Figure 1). The property is owned by the North Carolina Department of Transportation (NCDOT). At the time of the work, the structure on the property was a single-family residence. A fill pipe and a vent pipe had been observed by the northeast corner of the house, indicating the presence of an underground storage tank (UST). The NCDOT asked ESP to provide professional services to remove the UST prior to demolition of the property.

1.1 Site Observations

When ESP arrived on site on April 4, 2023, ground penetrating radar (GPR) and a probe rod was used to explore the exterior of the UST location reported to be at the northeast corner of the house. ESP observed the reported vent and fill pipes but no evidence was seen that a UST was present. Further observations made by ESP indicated that an above-ground storage tank (AST) was located inside the built-in garage of the house at the northeast corner. The observed fill and vent pipes on the exterior of the house connected to this AST. Staining from heating oil was observed on the concrete near the base of the AST.

2.0 CLOSURE PROCEDURES

The heating oil AST was removed on April 4, 2023 and contained approximately 125 gallons of heating oil. The product line from the AST to the furnace was removed and the exterior vent and fill piping was cut flush to the northeast wall on the inside and cut flush to the ground surface outside. Photographs of the closure activities are included on Figure 2.

2.1 UST Closure Preparation

ESP contracted with EVO Corporation (EVO) for the closure. On April 4, 2023, ESP and EVO mobilized to the site. Prior to closure activities of the AST, the bushes located near the northeast corner of the house were removed in order to assess if a UST was present. No evidence was seen for a UST.

2.2 AST Removal and Disposal

Due to the limited space inside the garage area, the AST was pushed manually towards the garage door opening. The residual material was removed using a vacuum truck and transported offsite for disposal. Dry ice was placed inside the AST to remove fuel vapors and oxygen prior to transport. The AST appeared to be in fair condition, with no visible holes or significant corrosion. The AST had a width of 2.3 feet, a height of 3.7 feet and a length of 5.1 feet with an estimated capacity of 275 gallons. The AST was loaded onto a dump truck for off-site disposal. The tank disposal manifest is included in Appendix A.

2.3 Residual Material Disposal

Approximately 125 gallons of heating oil was removed from the UST by EVO using a vacuum truck. The residual material was transported offsite to EVO's recycling facility. The material disposal manifest is included in Appendix A.



3.0 CONCLUSIONS AND RECOMMENDATIONS

No limitations on construction activities or special handling of excavated soil are recommended for area of the former AST at 6625 University Parkway.

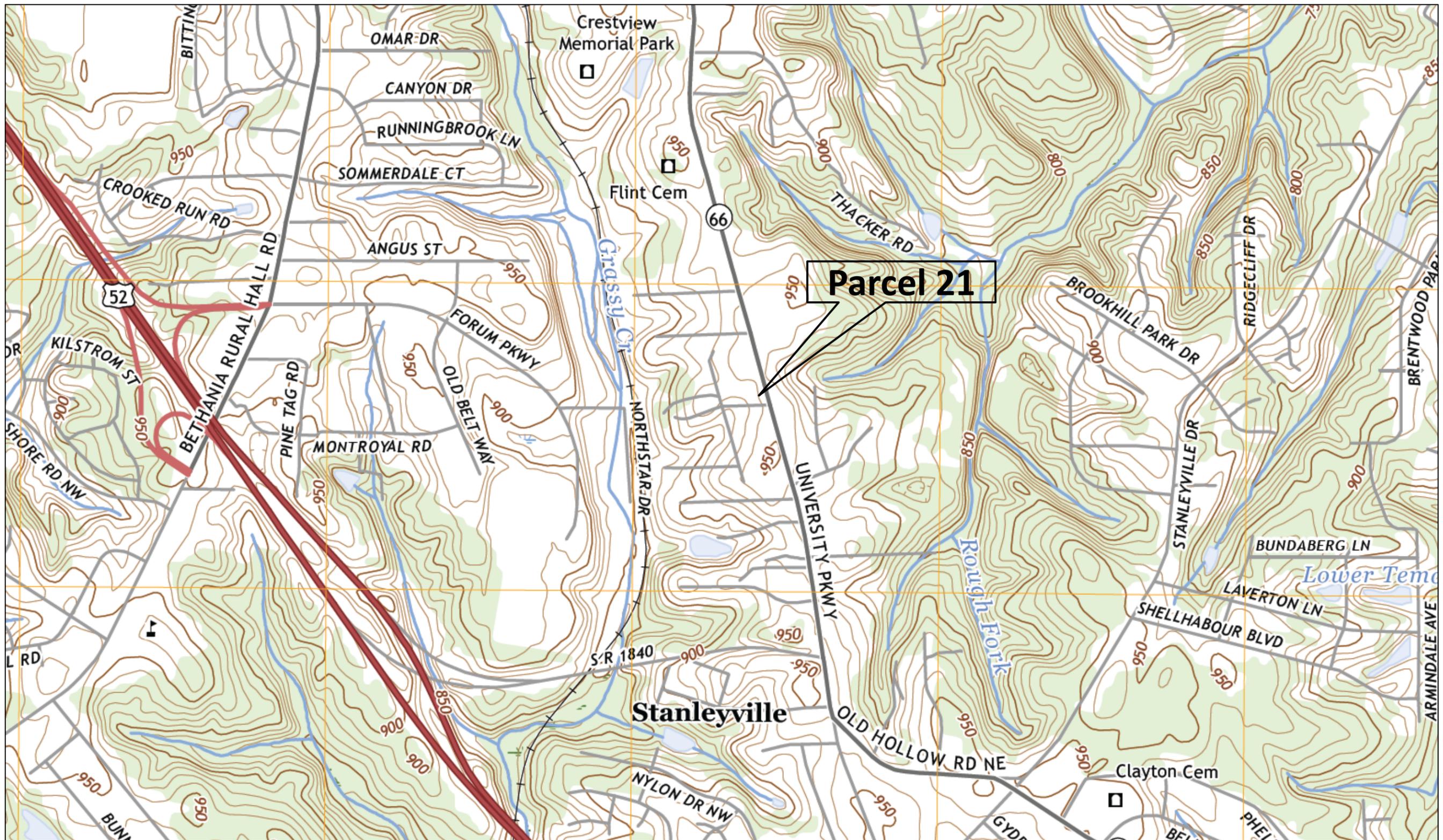
4.0 LIMITATIONS

ESP's professional services have been performed, findings obtained, and recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. ESP is not responsible for the independent conclusions, opinions, or recommendations made by others based on the data presented in this report.

The passage of time may result in a change in the environmental characteristics at this site and surrounding properties. ESP does not warrant against future operations or conditions, or against operations or conditions present of a type or at a location not investigated. ESP does not assume responsibility for other environmental issues that may be associated with the subject site.



FIGURES



APPROXIMATE NORTH

From: USGS US Topo 7.5 - minute map for RURAL HALL, NC, Date: 2022, Original Scale: 1:24,000

PROJECT NO.	23-00235
SCALE	AS SHOWN
DATE	4/30/2023
BY	EDB/CRP

**FIGURE 1 – PARCEL 21, 6652 UNIVERSITY PARKWAY
SITE VICINITY MAP**

**PROJECT U-5899, NEW ROUTE FROM FORUM PKWY
CONNECTOR TO NC 66 (UNIVERSITY PKWY)
FORSYTH COUNTY, NORTH CAROLINA**



ESP Associates, Inc.
7011 Albert Pick Rd.,
Suite E
Greensboro, NC 27409
336.334.7724
www.espassociates.com



A. Photograph of the AST in garage prior to removal showing two pipes extending through the block wall to the exterior of the building, looking east.



B. Photograph of EVO personnel removing the contents of the AST with the vacuum truck.



C. Photograph of the AST being loaded after the contents were removed and dry ice was placed in the AST.



D. Photo of AST location after removal with piping cut flush to the wall inside and to the outside ground surface.

PROJECT NO. 23-00235	FIGURE 1 – PARCEL 21, 6652 UNIVERSITY PARKWAY PHOTOGRAPHS OF CLOSURE ACTIVITIES PROJECT U-5899, NEW ROUTE FROM FORUM PKWY CONNECTOR TO NC 66 (UNIVERSITY PKWY) FORSYTH COUNTY, NORTH CAROLINA		ESP Associates, Inc.
SCALE N/A			7011 Albert Pick Rd., Suite E Greensboro, NC 27409
DATE 4/30/2023			336.334.7724
BY EDB/CRP			www.espassociates.com



APPENDIX A
TANK AND MATERIAL DISPOSAL MANIFESTS



1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

TANK DISPOSAL CERTIFICATE

Tank Owner: Former Michael Sapp Property – Abandoned in
NCDOT ROW

Site Address: 6652 University Pkwy.
Rural Hall, NC

Description of Tanks:

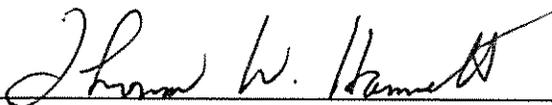
<u>Tank Number</u>	<u>Size of Tank</u>	<u>Contents</u>
1	275 Gallons	#2 Fuel Oil

Transporter: Evo Corporation

EC Project #: 042311

Disposal Certification:

Evo Corporation does hereby certify that the above named storage tank was transported to Foss Recycling, 3459 Thomasville Road, Winston-Salem, NC for proper disposal and recycling.



Signature

Thomas W. Hammett
CEO
Evo Corporation



1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 125 gallons of non-hazardous product received on 4/4/2023 from:

Generator: Former Michael Sapp Property - Abandoned
in NCDOT ROW

Originating at: 6652 University Pkwy.
Rural Hall, NC

EC Waste ID #: 042311

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environmental Quality.

A handwritten signature in black ink, appearing to read "Thomas W. Hammett", is written over a horizontal line.

Signature

Thomas W. Hammett
CEO
Evo Corporation

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107

www.evocorp.net

NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No. 17340

GENERATOR INFORMATION

Generator: Former Michael Sapp Property

Phone: 919-707-6871

Site Address: 6652 University Pkwy.

City/State: Rural Hall, NC

Contact: Craig Hayden

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): _____

Material: Product

Empty Weight (lbs): _____

Contaminant: #2 Fuel Oil

Net Weight (lbs): _____

Quantity

125

Tons

Drums

Pails

Sacs

Yards

Other: CS/

TRANSPORTER INFORMATION

Transporter: Evo Corporation

Phone: 336-725-5844

Truck #: 402

Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: [Signature]

Date: 4/4/23

FACILITY INFORMATION

Evo Corporation

1703 Vargrave Street

Winston-Salem NC 27107

Evo Project #: 042311

Phone: 336-725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: [Signature]

Date: 4/4/23

White/Facility

Canary/Invoice

Pink/Carrier