

Via Email

May 1, 2025

NC DOT Geotechnical Unit
GeoEnvironmental Section
1589 Mail Service Center
Raleigh, North Carolina 27699-1589

Attention: Mr. Ashley Cox, Jr., LG

Re: Initial Abatement Action Report – Parcel 006
NC DOT State Project No. R-5600
WBS Element No. 45818.1.FR1
Sylva, Jackson County, North Carolina
H&H Job No. ROW-809

Dear Ashley:

Please find the attached PDF copy of the Initial Abatement Action Report for the Wholesale Investments, LLC property (Parcel 006) located in Sylva, Jackson County, North Carolina. Please return via DocuSign for final signatures. If you have any questions or need additional information, please contact us at (704) 586-0007.

Sincerely,

Hart & Hickman, PC



David Graham, PG
Project Manager



Matt Bramblett, PE
Principal

Attachment

INITIAL ABATEMENT ACTION REPORT

H&H JOB NO. ROW-809

MAY 1, 2025



NC DOT PARCEL #006 – 345 W. MAIN STREET

Sylva, Jackson County, North Carolina

State Project R-5600

WBS Element #45818.1.FR1



SMARTER ENVIRONMENTAL SOLUTIONS

#C-1269 Engineering / #C-245 Geology

Initial Abatement Action Report

1.0 Site Information

1.1 Site Identification

Date of Report: May 1, 2025 Site Risk: NA
Facility ID: NA UST Incident Number: 49914
Site Name: Vacant Parcel (NC DOT Parcel 006)
Site Street Address: 345 W. Main Street
City, Town: Sylva Zip Code: 28779 County: Jackson
Description of Geographical Data Point: Center of Former UST locations
Location Method: Google Earth
Latitude: 35.374040 N Longitude: -83.219154 W

1.2. Information about Contacts Associated with the Leaking UST System

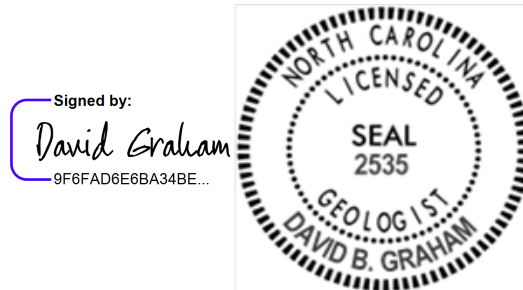
UST/AST Owner: Wholesale Investments, LLC Email: NA
Address: 1795 Church Street, PO Box 4080, Cleveland, TN 37320 Tel.: N/A
UST/AST Operator: Wholesale Investments, LLC Email: NA
Address: 1795 Church Street, PO Box 4080, Cleveland, TN 37320 Tel.: N/A
Property Owner: Wholesale Investments, LLC Email: NA
Address: 1795 Church Street, PO Box 4080, Cleveland, TN 37320 Tel.: N/A
Property Occupant: Vacant Email: NA
Address: 345 W. Main Street Tel.: NA
Consultant/Contractor: Hart & Hickman, PC Email: dgraham@harthickman.com
Address: 2923 South Tryon Street, Suite 100, Charlotte, NC 28203
Tel.: (704) 586-0007
Analytical Laboratory: Waypoint Analytical State Cert. No. 402
Address: 449 Springbrook Road, Charlotte, NC 28217 Tel.: (704) 529-6364

1.3 Information About Release

Date Discovered: Preliminary laboratory report dated February 10, 2025 indicated a gasoline-range TPH detection in a UST closure soil sample above the NC DEQ Action Level
Estimated Quantity of Release: NA
Cause of Release: NA
Source of Release: NA
Sizes and contents of Tanks or other Containment from which the release occurred: One 750-gallon gasoline UST and one 1,000-gallon gasoline UST

1.4 Certification

I, David Graham, PG a Licensed Geologist at Hart & Hickman, PC, do certify that the information contained in this report is correct and accurate to the best of my knowledge.



Hart & Hickman, PC is licensed to practice geology/engineering in North Carolina. The certification numbers of the company are C-245/C-1269.

2.0 Executive Summary

The North Carolina Department of Transportation (NC DOT) is planning to conduct road improvement activities along East and West Main Street in Sylva, NC. On behalf of NC DOT, Hart & Hickman, PC (H&H) previously conducted geophysical survey activities in proposed NC DOT work areas on Parcel 006 (345 W. Main Street) in September 2022. H&H contracted with Pyramid Geophysical Services (Pyramid) to identify potential USTs within proposed NC DOT work areas using electromagnetic (EM) induction technology and ground penetrating radar (GPR). The EM/GPR survey identified two potential USTs on Parcel 006.

At NC DOT's request, H&H and our UST closure contractor, EVO Corporation (EVO), mobilized to the Site on January 27 through 30, 2025 to investigate and remove the USTs. An exploratory excavation was conducted to remove the concrete slab and overburden soil to uncover the USTs. During excavation activities, two USTs (UST-1 and UST-2) were identified beneath the concrete slab. UST-1 and UST-2 were estimated to be 750-gallons and 1,000-gallons in capacity, respectively. The USTs were removed and UST closure soil samples were collected from the former tank basins in accordance with North Carolina Department of Environmental Quality (NC DEQ) guidelines. Concentrations of petroleum constituents were detected in one of the four UST closure soil samples collected beneath the USTs above NC DEQ Action Levels. No product piping or dispenser areas were identified near the USTs.

3.0 Site History and Characterization

3.1 UST Owner and Operator Information Table

UST ID Number	NA	Facility ID Number	NA
Owner Name (and Contact)		Dates of Operation (mm/dd/yy to mm/dd/yy)	
Wholesale Investments, LLC		Unknown	
Street Address			
1795 Church Street, PO Box 4080			
City	State	Zip	Telephone Number
Cleveland	TN	37320	NA
Operator Name (and Contact)		Dates of Operation (mm/dd/yy to mm/dd/yy)	
Wholesale Investments, LLC		Unknown	
Street Address			
1795 Church Street			
City	State	Zip	Telephone Number
Cleveland	TN	37320	NA
Other Incidents Onsite or Commingled/In Close Proximity			
Incident Number	NA	Date Incident Occurred	NA
Name of Responsible Party for Other Incident		Date Incident Reported	NA
NA		Date Incident Closed	NA
Street Address			
NA			
City	State	Zip	Telephone Number
NA	NA	NA	NA

3.2 UST Information Table

UST ID Number	Current/Last Contents	Previous Contents	Capacity (gallons)	Construction Details	Approximate Tank Dimensions	Description of Associated Piping and Pumps	Date Tank Installed	Status of UST	Was release associated with the UST System?
UST-1	Gasoline	N/A	750	Single-walled steel	8 ft x 3.5 ft	No piping or pumps identified.	Unknown	Removed 01/29/2025	No
UST-2	Gasoline	N/A	1,000	Single-walled steel	12 ft x 3.5 ft	No piping or pumps identified.	Unknown	Removed 01/29/2025	Yes

3.3 Non-UST Spills at the Site

There are no non-UST spills known to be associated with NC DOT Parcel 006.

3.4 Description of Release

NC DOT is planning to conduct road improvement activities along West Main Street in Sylva, NC near Parcel 006. A site location map is presented as Figure 1, and a site map is presented as Figure 2. H&H previously conducted geophysical survey activities in proposed NC DOT work areas on Parcel 006 in September 2022. H&H contracted with Pyramid to identify potential USTs within proposed NC DOT work areas using EM and GPR. The geophysical survey detected the presence of two potential USTs on Parcel 006. There were no visual surface indications of the USTs. No product piping or dispensers were identified near the USTs. The results of the geophysical survey are described in H&H's Geophysical Survey Report dated November 30, 2022.

At the request of NC DOT, H&H supervised the removal of the potential USTs from Parcel 006. H&H contracted EVO Corporation (EVO) of Winston-Salem, North Carolina to perform the UST removal and excavation activities. The USTs were removed on January 29, 2025. Based on field observations, the USTs contained gasoline. The USTs were excavated and transported off-site for proper disposal and recycling. After the UST removals, soil samples (T1-1, T1-2, T2-1, and T2-2) were collected beneath the former USTs. The soil samples were submitted to a NC certified laboratory for analysis of total petroleum hydrocarbons (TPH) as gasoline range organics (GRO) and diesel range organics (DRO) by EPA Method 8015. Field screening did not identify potential impacts beneath the USTs during UST closure activities.

The laboratory analytical results indicate the presence of TPH DRO (up to 86.8 mg/kg) in each of the four UST closure soil samples. The TPH DRO detections are below the NC DEQ Action Level of 100 mg/kg. A concentration of TPH GRO (69.7 mg/kg) was detected in soil sample T2-1 above the NC DEQ Action Level of 50 mg/kg. Based on field screening, no impacted overburden soil was identified during UST closure activities. However, H&H's contractor removed approximately 18.73 tons of soil that was mixed with trash and debris that was not suitable for reuse as backfill material. Removed overburden soil was transported off-site for treatment/disposal at EVO's permitted facility.

Because there were no indications of potential impacts in the UST closure soil samples based on field screening, and at NC DOT's request, no over-excavation activities were conducted at the UST locations during UST removal activities. However, to put the site in a position to potentially obtain regulatory closure in the event that low TPH detections were found above NC DEQ Action Levels, soil sample portions were collected at each closure sample location for potential risk-based analyses. Based on discussions between NC DOT and NC DEQ, because TPH GRO exceeded the Action Level in closure soil sample T2-1, sample T2-1 was also analyzed for volatile organic compounds (VOCs) by EPA Method 8260, semi-VOCs (SVOCs) by EPA Method 8270, and extractable petroleum hydrocarbons (EPH) and volatile petroleum hydrocarbons (VPH) by Massachusetts Department of Environmental Protection

(MADEP) Methods. Laboratory analytical results were compared to NC DEQ Soil-to-Water, Residential, and Industrial/Commercial Maximum Soil Contaminant Concentrations (MSCCs).

3.5 Site Characteristics

The Site was previously occupied by a one-story building. Previous use of the building is unknown. The building was demolished and the property was vacant at the time of the UST removal activities. The Site is located in a mixed commercial and residential area of Sylva. A topographic site location map is presented as Figure 1, and a site map is presented as Figure 2.

The subject Site is located in the Blue Ridge Physiographic Province of North Carolina. The land surface of the area is generally characterized as inter-mountain basins surrounded by moderate-to-steep sloped mountains, which may become steeper where intersected by streams. Within the Site area, underlying bedrock is composed of predominantly biotite gneiss that is inter-layered and gradational with biotite-garnet gneiss and amphibolite. Locally, quartz and aluminosilicates are abundant.

Visual observations during the UST excavation activities indicate that the soil in the area of the UST excavation consists of tan and brown sandy silt to a depth of approximately 6 ft below ground surface (bgs). No groundwater or bedrock was encountered during the UST removal activities. The groundwater flow direction likely follows topography and flows from northeast to southwest toward Scott Creek.

A water supply well survey was not conducted during UST closure activities. No surface waters were identified on the site property. However, Scott Creek borders the southwestern boundary of the Site.

3.6 Initial Abatement Action, Assessment Activities, and Corrective Actions Performed to Date

No known assessment or corrective actions have been conducted at the site prior to the UST removal activities in January 2025. Initial abatement actions are discussed in Section 4.0 below.

4.0 UST Closure Report Following UST-12 Format and Site Investigation Report for Permanent Closure or Change-in-Service of UST (UST-2 Form)

4.1 Preparations for Closure Including the Steps Taken to Notify Authorities, Permits Obtained and the Steps Taken to Clean and Purge the Tanks

Prior to UST closure activities, H&H submitted a Notice of Intent: UST Permanent Closure or Change-in-Service (UST-3) form to NC DEQ on January 10, 2025. A copy of the UST-3 form is provided in Appendix A. EVO obtained a fire permit from the Jackson County Fire Department prior to conducting UST removal activities. A copy of the email approval of the

fire inspection results is included in Appendix B. H&H prepared a Site-Specific Health and Safety Plan for UST closure activities. A copy of the Health and Safety Plan is included in Appendix C.

On January 27 through January 30, 2025, EVO mobilized to the site to remove the two USTs. During excavation activities, one 750-gallon UST and one 1,000-gallon UST (UST-1 and UST-2, respectively) were identified and removed. Residual liquids were pumped from each tank into a vacuum truck provided by EVO prior to removal of the USTs. In addition, prior to removal, the interior of the tanks were triple-rinsed with a pressure washer and the water was removed with the vacuum truck. Approximately 905 gallons of residual liquids and rinse water were pumped from the USTs and properly disposed by EVO. The certificate of disposal and non-hazardous materials manifest for removed residual liquids are included in Appendix D.

4.2 Closure Procedures

Initially, soil was removed from the top and sides of the USTs with an excavator so that the tanks could be removed from the ground. Soils encountered during the excavation were evaluated in the field for the presence of odors, staining, and organic vapor readings using a photo ionization detector (PID). The PID was calibrated prior to its use against an isobutylene standard. No potential impacts were identified with the PID in the excavated overburden soils.

Following removal, the USTs were observed for evidence of holes, pitting, and corrosion. The USTs were constructed of steel and appeared to be in good condition. No piping or dispensers were identified near the USTs. Prior to removal of the USTs, a concrete pad was removed from the ground surface above the USTs. The USTs were transported off-site by EVO to Metalwood Recycling in Sylva, North Carolina for proper disposal and recycling. The Tank Disposal Certificate is included in Appendix E.

After UST removals, closure soil samples were collected in accordance with the NC DEQ UST Section *Guidelines for Site Checks, Tank Closure, and Initial Response and Abatement*, May 17, 2021 Version, Change 11 - 2021 (*Guidelines*). There were no field indications of a release based on PID readings of the closure soil samples and overburden soil.

After UST closure sampling, the excavation area was backfilled with clean imported fill soil by EVO.

H&H completed a Site Investigation Report for Permanent Closure or Change-in-Service of Un-Registered UST (UST-2B Form) and submitted it to the NC DEQ – Raleigh Central Office on March 22, 2025 on behalf of the NC DOT. A copy of this form is included in Appendix F.

No bedrock or groundwater were encountered during UST closure activities.

4.3 Residual Material

Removal of residual liquids from the USTs is described in Section 4.1 above.

4.4 Initial Response Actions

A UST release was confirmed based on the preliminary laboratory report of UST closure soil samples dated February 10, 2025. Initial response and abatement actions are described in H&H's 24-Hour Release and UST Leak Reporting Form dated February 11, 2025, 20-Day Report and Project Update letter dated March 4, 2025, and in Section 4.0 of this report.

4.5 Soil Excavation Activities

As described above, overburden soils were removed from the top and sides of the USTs with an excavator so that the tanks could be removed from the ground. Soils encountered during the excavation were evaluated in the field for the presence of odors, staining, and organic vapor readings using a PID. There were no field indications of a release based on PID readings of overburden soils or closure soil samples collected beneath the USTs. As such, no over excavation of soil was conducted beneath the USTs. However, H&H's contractor removed approximately 18.73 tons of soil that was mixed with trash and debris that was not suitable for reuse as backfill material. Removed overburden soil was transported off-site for treatment/disposal at EVO's permitted facility. The certificate of disposal, non-hazardous materials manifest, and certified weight tickets for removed soil are included in Appendix G

The approximate extent of the UST excavation area is shown on Figure 2. The top of the USTs were approximately one ft bgs. As noted above, the soil consisted of tan and brown sandy silt to a depth of approximately 6 ft bgs. Because there were no indications of a release, a portion of the overburden soil that was removed from the excavation and clean imported fill soil were used to backfill the excavation. The fill material was compacted in approximate one-foot lifts using the excavator bucket to existing grade and capped with approximately 3-inches of ABC stone. The imported fill soil was obtained from Arrowhead Contractors in Sylva, NC and ABC stone was obtained from Harrison Construction in Dillsboro, NC. At the direction of NC DOT, no compaction testing was performed.

5.0 Site investigation

5.1 Field Screening

Field screening of soil samples collected beneath the USTs and overburden soil was conducted using a PID. Soil samples were placed in plastic Ziploc® bags and subsequently screened with the PID. There were no field indications of a release based on PID readings of the closure soil samples and overburden soil. PID screening results are presented in Table 1.

5.2 Soil Sampling Information

After removal of the 750-gallon UST and 1,000-gallon UST, closure soil samples were collected in accordance with the NC DEQ UST Section *Guidelines* using the excavator bucket. Soil samples were collected from the center of the excavator bucket from soil not in direct contact with the bucket. Soil samples T1-1 and T1-2 and T2-1 and T2-2 were collected approximately 5 ft bgs beneath the centerline of UST-1 and UST-2, respectively. The closure samples were submitted to Waypoint Analytical (Waypoint), a NC certified laboratory, for analysis of TPH DRO and GRO by EPA Method 8015. As noted above, sample portions from each closure sample location were placed on hold with the laboratory for analysis of VOCs by EPA Method 8260, SVOCs by EPA Method 8270, and EPH and VPH by the MADEP methods. The locations of the UST closure soil samples are depicted on Figure 2.

5.3 Groundwater and Surface Water

No groundwater or surface water samples were collected.

5.4 Quality Control Information

During UST closure activities, soil samples were collected using a nitrile glove-covered hand, placed into laboratory-supplied sample containers, and then labeled as to content, analyses requested, sample date and time, and sampler's name. The samples were placed in an iced cooler upon collection and were subsequently submitted to Waypoint under standard chain-of-custody protocol.

5.5 Soil Investigation Results

Based on the laboratory analytical results, concentrations of TPH DRO (ranging from 8.07 mg/kg to 86.8 mg/kg) were detected in soil samples T1-1, T1-2, T2-1, and T2-2. The TPH DRO detections are below the NC DEQ Action Level of 100 mg/kg. A concentration of TPH GRO (69.7) was detected in the closure soil sample T2-1 above the NC DEQ Action Level of 50 mg/kg.

Based on discussions between NC DOT and NC DEQ, because TPH GRO exceeded the Action Level in closure soil sample T2-1, sample T2-1 was also analyzed for VOCs, SVOCs, and EPH and VPH by the MADEP Methods. Laboratory analytical results indicate concentrations of benzene and naphthalene were detected in soil sample T2-1 above the NC DEQ Soil-to-Water MSCCs. No other target constituents were detected above the MSCCs in sample T2-1. Soil sample analytical results, analytical methods, PID readings, and sample depths are summarized in Table 1. The laboratory analytical data report and chain-of-custody record are provided in Appendix H.

6.0 Conclusions

Between January 27 and 30, 2025, one 750-gallon UST and one 1,000-gallon UST were removed from the subject property, and the excavation was backfilled. No groundwater or bedrock was encountered during UST closure activities. In addition, non-aqueous phase liquid (NAPL) was not identified during UST closure activities. Concentrations of TPH GRO and other target petroleum constituents were detected above the NC DEQ Action Level and Soil-to-Water MSCCs, respectively, in one of the four closure soil samples collected beneath the USTs. Approximately 18.73 tons of overburden soil were removed from the UST basin and properly disposed. Based on the UST closure soil sample analytical data, petroleum impacted soil above the NC DEQ Action level and MSCCs remains in the former UST excavation area.

Tables

Table 1	Summary of Soil Analytical Results
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Figures

Figure 1	Site Location Map
Figure 2	Site Map and Soil Analytical Results

Appendices

Appendix A	Notice of Intent: UST Permanent Closure or Change in Service Form (UST-3 form)
Appendix B	Fire Permit Inspection Approval Email
Appendix C	Health and Safety Plan
Appendix D	Certificate of Disposal and Non-Hazardous Materials Manifest (Liquid)
Appendix E	Tank Disposal Certificate
Appendix F	Site Investigation Report for Permanent Closure or Change-in-Service of Un-Registered UST (UST-2B Form)
Appendix G	Certificate of Disposal, Non-Hazardous Materials Manifest, and Certified Weight Ticket (Soil)
Appendix H	Laboratory Analytical Data Report

Table 1 (Page 1 of 1)
Summary of Soil Analytical Results
NC DOT - Parcel 6
Sylva, North Carolina
H&H Job No. ROW-809

Analytical Method						EPA 8015C (mg/kg)		VOCs (8260) (mg/kg)				SVOCs (8270) (mg/kg)		MADEP EPH & VPH (mg/kg)							
Contaminant of Concern						Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Acetone	Benzene	n-Hexane	Xylenes (Total)	2-Methylnaphthalene	Naphthalene	VPH C5-C8 Aliphatics	VPH C9-C12 Aliphatics	EPH C9-C18 Aliphatics	Total C9-C18 Aliphatics	EPH C19-C36 Aliphatics	VPH C9-C10 Aromatics	EPH C11-C22 Aromatics	Total C9-C22 Aromatics
Sample ID	Date Collected	Sample Area	Sample Depth (ft)	PID Reading (ppm)	Incident Phase																
T1-1	1/29/2025	UST	6-7	0.0	Closure	<3.66	21.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
T1-2	1/29/2025	UST	6-7	0.0	Closure	<3.37	8.07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
T2-1	1/29/2025	UST	6-7	1.6	Closure	69.7	56.4	0.164	0.043	0.009 J	0.006 J	0.473 J	1.19	6.17 J	54.1	9.21	63.31	12.0	4.30 J	129	133.3 J
T2-2	1/29/2025	UST	6-7	0.1	Closure	<2.50	86.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NC DEQ Action Level						50	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Soil-to-Water MSCC ⁽¹⁾						NE	NE	24	0.0072	NE	6	1.5	0.2	68	NE	NE	540	>100%	NE	NE	31
Residential MSCC ⁽¹⁾						NE	NE	14,000	12	NE	3,120	62.5	5.5	625	NE	NE	1,560	31,200	NE	NE	469
Industrial/Commercial MSCC ⁽¹⁾						NE	NE	210,000	59.4	NE	46,700	934	27	9,340	NE	NE	23,300	467,000	NE	NE	7,000

Notes:

1) NC Department of Environmental Quality (DEQ) Division of Waste Management (DWM) Underground Storage Tank (UST) Section Corrective Action Guidelines dated April 9, 2025.

MSCC = Maximum Soil Contaminant Concentration

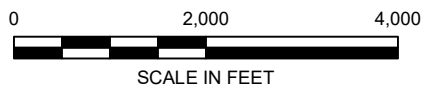
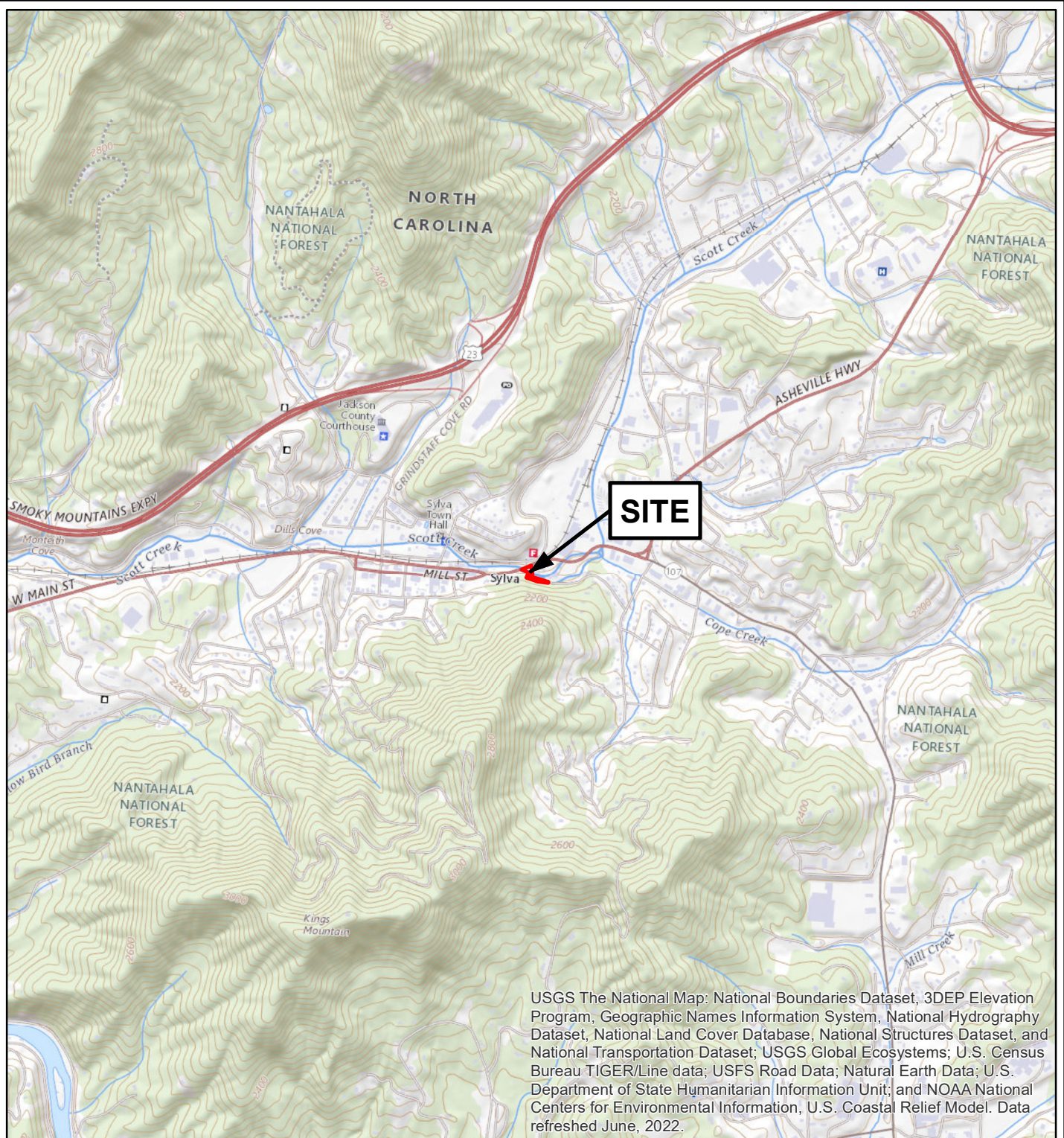
Bold indicates concentration exceeds NC DEQ Action Level or Soil-to-Water MSCCs.

TPH = Total Petroleum Hydrocarbons; VPH = Volatile Petroleum Hydrocarbons; EPH = Extractable Petroleum Hydrocarbons; VOCs = Volatile Organic Compounds; SVOCs = Semi-VOCs, PID = Photoionization Detector; ft = feet; ppm = parts per million.

MADEP = Massachusetts Department of Environmental Protection;

NA = Not analyzed; mg/kg = milligrams per kilogram; NE = Not established

J = Estimated concentration above the laboratory method detection limit and below the laboratory reporting limit.



U.S.G.S. QUADRANGLE MAP
SYLVA SOUTH, NORTH CAROLINA 2022
 QUADRANGLE
 7.5 MINUTE SERIES (TOPOGRAPHIC)

TITLE SITE LOCATION MAP	
PROJECT NCDOT PARCEL 6 345 W. MAIN ST SYLVA, NORTH CAROLINA	
 2923 South Tryon Street - Suite 100 Charlotte, North Carolina 28203 704-586-0007 (p) 704-586-0373 (f) License # C-1269 / # C-245 Geology	
DATE: 4-11-25	REVISION NO: 0
JOB NO: ROW-809	FIGURE NO: 1

Appendix A

Notice of Intent: UST Permanent Closure or Change in Service Form (UST-3 Form)

UST-3 Notice of Intent: UST Permanent Closure or Change-in-Service

Return completed form to:

The DWM Regional Office located in the area where the facility is located. Also send a copy to the Central Office in Raleigh.
Go to the following link for the regional and central office mailing addresses:
<https://www.deq.nc.gov/about/divisions/waste-management/ust/ro-staff>

STATE USE ONLY

I.D. # _____

Date Received _____

INSTRUCTIONS (READ THIS FIRST)

Complete and return a UST-3 form at least **thirty (30) days** prior to closure or change-in-service activities.

Completed UST closure or change-in-service site assessment reports, along with a copy of the UST-2A and/or 2B forms, should be submitted to the appropriate Division of Waste Management (DWM) Regional Office within thirty (30) days following closure activities. The UST-2 form should also be submitted to the Central Office in Raleigh so that the status of the tanks may be changed to permanently closed and your tank fee account can be closed out. Note: Tank fees may be due for unregistered tanks.

UST closure and change-in-service site assessments must be completed in accordance with the latest version of the *Guidelines for Site Checks, Tank Closure and Initial Response*. The guidelines can be obtained at <https://deq.nc.gov/about/divisions/waste-management/ust>. Note: To close tanks in place you must obtain prior approval from the DWM Regional office located in the region where the facility is located.

You must make sure that USTs removed from your property are disposed of properly. When choosing a closure contractor, ask where the tank(s) will be taken for disposal. Usually, USTs are cleaned and cut up for scrap metal. This is dangerous work and must be performed by a qualified company. Tanks disposed of illegally in fields or other dumpsites can leak petroleum products and sludge into the environment. If your tanks are disposed of improperly, you could be held responsible for the cleanup of any environmental damage that occurs.

I. OWNERSHIP OF TANKS

Owner Name (Corporation, Individual, Public Agency, or Other Entity)
Wholesale Investments, LLC

Street Address
1795 S. Church Street, PO Box 4080

City
Cleveland

County
Cleveland

State
TN

Zip Code
37320

Phone Number
N/A

Email
N/A

II. LOCATION

Facility Name or Company
Vacant Parcel

Facility ID # (If known)
N/A

Street Address
345 W. Main Street

City
Sylva

County
Jackson

Zip Code
28779

Phone Number
N/A

III. CONTACT PERSONNEL

Name:
David Graham

Company Name:
Hart & Hickman, PC

Job Title:
Project Manager

Phone Number:
704-586-0007

IV. TANK REMOVAL, CLOSURE IN PLACE, CHANGE-IN SERVICE

- Contact local fire marshal.
- Plan entire closure event.
- Conduct Site Soil Assessment.
- If removing tanks or closing in place, refer to API Publication 2015 *Cleaning Petroleum Storage Tanks* and 1604 *Removal and Disposal of Used Underground Petroleum Storage Tanks*.
- Provide a sketch locating piping, tanks and soil sampling locations.
- Submit a closure report in the format of UST-12 (including the form UST-2) within thirty (30) days following the site investigation.
- If a release from the tanks has occurred, the site assessment portion of the tank closure must be conducted under the supervision of a P.E. or L.G., with all closure site assessment reports bearing the signature and seal of the P.E. or L.G. If a release has not occurred, the supervision, signature or seal of a P.E. or L.G. is not required.
- Keep closure records for three (3) years.

V. WORK TO BE PERFORMED BY

Contractor Name:
Tony Disher

Contractor Company Name:
EVO Corporation

Address:
1703 Vargrave Street

City:
Winston-Salem

State:
NC

Zip Code:
27107

Phone No:
336-725-5844

Primary Consultant Name:
David Graham, PG

Primary Consultant Company Name:
Hart & Hickman, PC

Consultant Phone No:
704-586-0007

VI. TANKS SCHEDULED FOR CLOSURE OR CHANGE-IN-SERVICE

Tank ID No.	Size in Gallons	Last Contents	Proposed Activity		
			Removal	Closure Abandonment in Place *	Change-In-Service New Contents Stored
1	2000	Unknown	☒	☐	
2	2000	Unknown	☒	☐	
			☐	☐	
			☐	☐	
			☐	☐	

* Prior written approval to abandon a tank in place must be received from a DWM Regional Office.

VII. OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE

Has a release from a UST system occurred at this location? ☐ Yes ☐ No ☒ Unknown

I understand that I can be held responsible for environmental damage resulting from the improper disposal of my USTs.

Print name and official title: David Graham - Project Manager for Hart & Hickman, PC as Agent for NC DOT

Signature


Date Signed
January 10,
2025

SCHEDULED REMOVAL DATE
January 27, 2025

Notify your DWM Regional Office 48 hours before this date if scheduled removal date changes

Appendix B
Fire Permit Inspection Approval Email

David Graham

Subject: FW: Jackson County Inspection Results

-----Original Message-----

From: Jackson County Permitting Center <mmurphy@roktech.net>

Sent: Thursday, January 30, 2025 7:43 AM

To: Tony Disher <Tony.Disher@evocorp.net>

Cc: jcpermitcenter@jacksonnc.org

Subject: Jackson County Inspection Results

Greetings from Jackson County Code Enforcement. Please see your inspection results below.

Inspection Results

Job Name: WHOLESALE INVESTMENTS LLC

Inspection Date:1/30/2025

Permit Number:2014-1983-2-27064

Inspector: Danny Lewis

Inspection Type:Other

Inspection Results:Approved

Notes:

Common Rejections:

Appendix C

Health and Safety Plan

EMERGENCY CONTACT INFORMATION
NC DOT Road Improvement - UST Removals
East and West Main St. Sylva, NC
H&H Job No. ROW-809
January 20, 2025

Emergency Response

- (1) Hospital: (i.e., address and telephone number). **Attach Hospital Route Map or Directions**

Harris Regional Hospital: Emergency Room, 68 Hospital Road, Sylva, NC 28779 Phone: (828) 586-7000 (see attached map)

In the event of an emergency situation on the site, personnel are to immediately notify the appropriate emergency responder (i.e., fire, rescue, police, etc.), and to take any corrective actions or emergency procedures that can be safely performed (i.e., first-aid, CPR, etc.) When conditions permit, onsite personnel must notify the H&H Project Manager and Health & Safety Officer that an incident has occurred. Onsite personnel should review and be familiar with the phone number and location of the nearest hospital (listed above).

- (2) On-site emergency contact person and telephone number:

N/A

- (3) Other emergency contacts as appropriate: (i.e., fire, ambulance, 911, etc.)

- | |
|--|
| <ul style="list-style-type: none">• Ambulance, Fire, & Police - 911• Poison Control – (800) 222-1222• H&H Field Staff – Tyler Shulz – (704) 607-3877• H&H Project Manager – David Graham – (704) 649-5999 (cell)• Shannon Cottrill, Health & Safety Officer (704) 577-8810 (cell)• Client Contact – Ashley Cox – NC DOT (919) 707-6872 (office) |
|--|

- (4) Other non-emergency contacts as appropriate: (i.e., H&H Clinic addresses)

- | |
|--|
| <ul style="list-style-type: none">• Mountain Park Urgent Care: 90 E. Main Street, Sylva, NC (828) 631-3181• Concentra, Steele Creek: 8943 South Tryon St, Suite K, Charlotte, NC 28273 (704) 588-0885• Concentra, Freedom Drive: 4221 Tuckaseegee Road, Charlotte, NC 28208 (704) 395-0060 |
|--|

Site History (Describe what is known about the site. i.e., type of facility, operations, chemicals, etc.).

H&H is under contract to perform UST removal activities at four sites located along Main St. in Sylva, Jackson County, North Carolina. Potential USTs were identified via EM/GPR during Phase II assessment activities in 2022. Monitoring well abandonment activities will also be conducted at three sites on Main Street.	
<u>Parcel ID</u>	<u>Property Owner - Address</u>
Parcel 6	Wholesale Investments LLC – 345 W. Main Street (2 USTs)
Parcel 10	Shirley Sutton – 360 W. Main Street (3 USTs)
Parcel 24	Alpine Sylva LLC – 28 W. Main Street (2 USTs) (MW Aban.)
Parcel 78	Pole Yard Properties, LLC – (MW Abandonments)
Parcel 85	Vision Quest Properties – 741 E. Main Street (MW abandonments)
Parcel 132	Kathy Watkins, Et Al – 1668 E. Main Street (1 UST)

Scope of Work (Describe task(s) to be performed).

The scope of work (SOW) for activities that may be performed at the site by H&H personnel includes the following:
• Oversee utility locate. • Provide oversight during removal of residual fluids and sludge from the UST(s) with a vacuum truck. • After fluid removal, a lower explosion level (LEL) meter will be utilized to monitor for explosive atmospheres in the UST(s). Explosive vapors will be purged from the UST(s) using dry ice (or another equivalent). • Provide oversight for overburden and UST removal. • Collection of soil closure samples from the base of the UST excavation. • Provide oversight while the excavation is being backfilled with on-Site and imported soil. • Contractor will provide lane closure contractor to close eastbound lane on Main St. during closure activities on Parcel 6. • Oversight of drilling subcontractor for well abandonment activities.

Potential Hazards (List known or suspected hazards present on-site and preventative measures. Refer to *Job Safety Analysis* files for reference/assistance).

(1) **Physical Hazards** (i.e., fire, explosion, traffic, slips, trips, and falls, etc.).

Task	Physical Hazards	Action for hazard prevention	Potential for Exposure
Soil Sample Collection	Pinch points, muscle strain, slips/trips, moving vehicles	Wear cut resistant gloves, set up barriers around the work area, use caution and be aware of surface conditions	Low
UST Removal Oversight	Noise, falling items, being struck by large moving equipment	Wear hearing protection, discuss hand signals with equipment operators and trucks, wear proper PPE	High
Oversight of Drilling/Excavation Equipment	Pinch points, noise, falling items, being struck by large, moving equipment, falling into open excavation	Discuss pinch points during kickoff meeting, ear plugs, hard hat, safety vest, establish perimeter around open test pits and backfill immediately.	Medium

(2) Chemical Hazards (i.e., chemicals or products stored on-site).

- Petroleum related volatile organic compounds (VOCs) and/or aromatic compounds may be present in soil, groundwater, and/or soil gas at the site.

<u>Task</u>	<u>Chemical Hazards</u>	<u>Action for hazard prevention</u>	<u>Potential for Exposure to Hazard</u>
Soil sampling	Petroleum VOCs or SVOCs	Don nitrile gloves when contacting soil at the Site.	Medium

(3) Biological Hazards (i.e., toxic insects, poisonous plants, and poisonous snakes).

(4) Other Hazards (i.e., high winds, thunderstorms, hail, lightning, snow, and ice.)

Pedestrian traffic is possible across the Site Vehicle traffic onsite and along Main Street
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Training

- (1) Minimum Training Required (Review site specific information prior to entering the site).

- 40-hour OSHA HAZWOPER training
- 8-hour OSHA HAZWOPER supervisor training (if required)
- Medical Monitoring Program Participant
- “Fit for Duty” Clearance from Medical Director and current respirator fit test

- (2) Specialized Training or Required Permits (i.e., site specific, or special permits may be necessary).

- The NC One Call 811 and a private utility locator will provide utility location services to identify subsurface utilities during excavation activities.

Personal Protective Equipment (PPE)

- (1) PPE Required: (examples: hard hat, safety glasses with side shields, steel toe boots, Tyvek coveralls, respirator, rubber boots, gloves, etc.).

The following PPE will be required during the performance of site activities:

Safety glasses	At all times during the performance of site work, regardless of the task
Safety shoes/boots	At all times during the performance of site work, regardless of the task
Traffic safety vest	At any time where work is performed in areas of vehicular traffic and heavy equipment, or within 25 ft of such an area
Hearing Protection	At any time where noise levels are above natural ambient levels, at any time when working within 25 ft of operational heavy equipment (i.e., excavators), and at any time when utilizing portable equipment which creates noise levels above natural ambient levels (i.e., drills, saws, etc)
Leather work gloves	At any time the use of hand protection is warranted, including but not limited to, operations involving the use of hand tools
Nitrile gloves	At any time environmental samples are to be collected or contaminated media is being handled
Hard hat	At any time when working within 25ft of operational heavy equipment and when working within a space with limited overhead clearance and/or overhead obstructions (including the basement)
Tyvek® coveralls	At any time where dermal exposure to contaminants is imminent or assured, or where exposure to liquid or solid wastes is likely. The use of Tyvek® coveralls may require the modification of the PPE level established for the site
Respirator	At any time when volatile organic vapor measurements indicate levels at or in excess of the action level established for the site (see Exposure Monitoring below). When used, the appropriate respirator cartridge must be used (i.e., organic vapor). Consultation with the Project Manager and Health & Safety Officer is <u>required</u> prior to the use of a respirator.

NOTE: EACH OR ANY COMBINATION OF EACH OF THESE FORMS OF PPE MUST BE UTILIZED IN ACCORDANCE WITH CLIENT SPECIFIC HEALTH AND SAFETY REQUIREMENTS, IF APPLICABLE.

Exposure Monitoring (Describe exposure monitoring to be conducted).

During drilling and intrusive sampling activities, a photoionization detector (PID) shall be utilized to monitor potential exposure to volatile organic vapors. Monitoring of potential volatile organic vapors will be conducted within the breathing zone (i.e., 4 to 6 ft above ground surface), and will be conducted periodically during each day. A minimum of a single measurement within the breathing zone in the work area(s) should be performed, and data obtained through the performance of this monitoring shall be recorded in the field book, noting the date, time, location and measurement obtained. More frequent vapor monitoring should be conducted as conditions warrant (i.e., recognition of offensive odors).

As a PID detects numerous volatile organic vapors and is not specific to a particular compound, the action level for organic vapors as monitored with the PID at the site is established at a level of 0.5 parts per million (ppm), above background levels. This level is the acceptable OSHA time weighted average (TWA) limit for benzene (NIOSH, Pocket Guide to Chemical Hazards, September 2005).

- If little to no work has been performed previously at the site use VC (TWA=1ppm).
- If more comprehensive site characterization info is available, and no VC is present, action level may be increased to match appropriate hazardous compound.
- If this level is observed or exceeded within the breathing zone for more than 1 minute, operations are to be suspended and personnel will move up wind of the work area until levels dissipate.
- If volatile organic vapor levels do not dissipate in the work area, contact the Project Manager and Health & Safety Officer, ventilation measures may be necessary in the work area and/or the required PPE may be modified to include donning of an appropriate respirator.

Note: Calibration, frequency of calibration, and use of the PID must be performed in accordance with the manufacturer's specifications.

Decontamination (Evaluate the need for decontamination, describe procedures, etc.)

Driller's sampling devices (i.e., screen-point samplers, sampling rods, stainless steel hand augers, and probe rods) shall be decontaminated in accordance with Section 9.1, *Field Equipment Decontamination Procedure*, of the. Decontamination is to be performed within a dedicated decontamination area. Decontamination fluids and waste materials will be properly contained for offsite disposal. All other sampling equipment shall be disposed of (i.e., nitrile gloves, DPT sleeves).

Dedicated or disposable sampling apparatus will be properly contained for disposal if it has come into contact with hazardous materials or suspect hazardous materials. If dedicated or disposable equipment can be properly decontaminated after use, it may be disposed of as non-hazardous in an appropriate container after decontamination.

Site Control (Evaluate the need for site control to protect persons from exposure to hazardous conditions; i.e., work permits, cones, barricade tape, etc.).

H&H personnel shall take necessary measures to maintain site control and limit exposure of persons to hazardous conditions or hazardous materials. As needed, H&H shall establish work areas to be demarked with traffic cones, barricades, caution tape, or other appropriate measures.

In general, a minimum perimeter of 25 ft should be established around the work area by one or more of the control measures listed above. Where possible, operations will not be conducted in a manner which increases personnel or subcontract exposure to traffic or other hazards.

No unauthorized personnel are to be allowed in the work areas during operations.

Safety Briefings

Safety briefings will be held on each day during which site work is performed. A minimum of one daily safety briefing will be held on the site by all personnel involved in site operations. Additional safety briefings will be conducted as site conditions or hazards change, when returning to the site following breaks in operation such as lunch or weekends, or at other appropriate times to be determined by on-site personnel or the Project Manager.

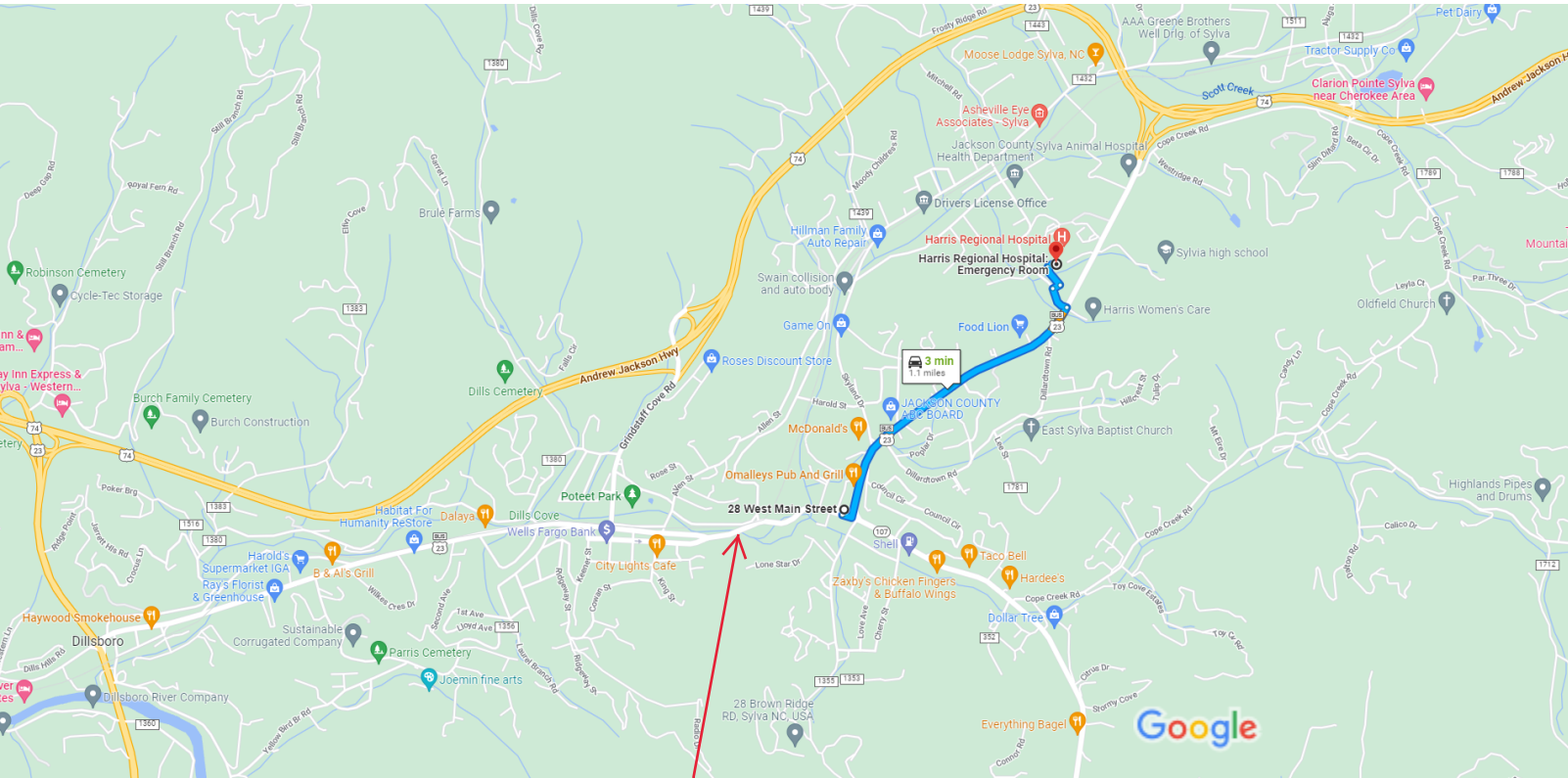
Records of these safety meetings will be noted on the safety briefing log sheets (provided at the end of this document) and in the field book, and will include the date and time of the briefing, names and affiliations of attendees, and any pertinent subjects of discussion.

Additional Information/Notes (Please enter any pertinent information that may be relevant for the site, this is to be executed before and after site visits. Information may include items like gate instructions, etc.)

Date executed: January 20, 2025

Prepared by David Graham

[Insert Hospital Directions and Map]



From Parcel 24
28 W Main St
Sylva, NC 28779

Parcel 6 345 W.
Main Street

- ↑ 1. Head east on W Main St
13 ft
- ↩ 2. Turn left onto US-23 BUS N
Pass by JACKSON COUNTY ABC BOARD (on the left in 0.3 mi)
0.9 mi
- ↩ 3. Turn left onto Hospital Rd
387 ft
- ➡ 4. Turn right
125 ft
- ↩ 5. Turn left
338 ft
- ➡ 6. Turn right
Destination will be on the right
82 ft

Harris Regional Hospital: Emergency Room
68 Hospital Rd, Sylva, NC 28779

[Insert Safety Briefing Forms]

Tail-Gate Safety Briefing Attendance Log

Name

Date

[Insert Near Miss Forms]

NEAR MISS REPORT

A near miss is a potential hazard or incident that has not resulted in personal injury. Unsafe working conditions, unsafe employee work habits, improper use of equipment or use of malfunctioning equipment have the potential to cause work related injuries. It is everyone's responsibility to report and /or correct these potential accidents/incidents immediately. Please complete this form as a means to report these near-miss situations.

Location _____ Date _____

Time _____ ☐ am ☐ pm

Please check all appropriate conditions:

☐

Unsafe Act

☐

Unsafe equipment

☐

Unsafe Condition

☐

Unsafe use of equipment

Description of incident or potential hazard: _____

Employee Signature _____ Date _____
(optional)

NEAR MISS INVESTIGATION

Description of the near-miss condition: _____

Root Causes (primary & contributing): _____

Corrective action taken (Remove the hazard, replace, repair, or retrain in the proper procedures for the task)

Signed _____ Date Completed _____

Not completed for the following reason: _____

Management _____ Date _____

ACCIDENT / EXPOSURE REPORT FORM

EMPLOYEE NAME _____ DATE OF BIRTH _____
HOME ADDRESS _____ PHONE NO. _____
SEX: MALE __ FEMALE __ JOB TITLE _____ SOC. SEC. NO. _____
OFFICE NO. _ OFFICE LOCATION _____ DATE OF HIRE _____
HOURS USUALLY WORKED: HOURS PER DAY _____ HOURS PER WEEK _____
TOTAL HOURS WEEKLY _____

WHERE DID ACCIDENT, OR EXPOSURE OCCUR? (INCLUDE ADDRESS) _____

COUNTY _____ ON EMPLOYER'S PREMISES? YES _____ NO _____

WHAT WAS EMPLOYEE DOING WHEN THE ACCIDENT OCCURRED? (BE SPECIFIC) _

HOW DID THE ACCIDENT OR EXPOSURE OCCUR? (DESCRIBE FULLY) _____

WHAT STEPS COULD BE TAKEN TO PREVENT SUCH AN OCCURRENCE? _____

OBJECT OR SUBSTANCE THAT DIRECTLY INJURED EMPLOYEE _____

DESCRIBE THE INJURY OR ILLNESS _____

PART OF BODY AFFECTED _____

NAME AND ADDRESS OF PHYSICIAN _____

IF HOSPITALIZED, NAME AND ADDRESS OF HOSPITAL _____

DATE OF INJURY/ILLNESS _____ TIME OF DAY _____

LOSS OF ONE OR MORE DAY OR WORK? YES/NO _____

IF YES, DATE LAST WORKED _____

HAS EMPLOYEE RETURNED TO WORK? _____ IF YES, DATE RETURNED _____

DID EMPLOYEE DIE? _____ IF YES, DATE _____

COMPLETED BY (PRINT) _____

SIGNATURE _____

TITLE _____ DATE _____

AN ACCIDENT, EXPOSURE REPORT MUST BE COMPLETED BY THE SUPERVISOR OR SITE SAFETY OFFICER IMMEDIATELY UPON LEARNING OF THE INCIDENT. THE COMPLETED REPORT MUST BE IMMEDIATELY TRANSMITTED TO THE MANAGER, HEALTH & SAFETY.

Appendix D
Certificate of Disposal and Non-Hazardous Materials Manifest (Liquid)



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

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 905 gallons of non-hazardous contaminated water received on 1/28/2025 from:

Generator: NC Department of Transportation (NC DOT)

Originating at: 345 W. Main Street (Parcel 006)
Sylva, Jackson County, NC

EC Waste ID #: 012528

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. 20273

GENERATOR INFORMATION

Generator: NCDOT
Site Address: 345 W. Main St
City/State: Sylva, NC

Phone: 919-707-6872
Contact: Ashley Cox, Jr.

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): _____ Material: ~~Waste~~ Wastewater
Empty Weight (lbs): _____ Contaminant: Gasoline/Diesel
Net Weight (lbs): _____

Quantity

905

Tons Drums Pails Sacs Yards Other: gallons

TRANSPORTER INFORMATION

Transporter: Evo Corporation
Truck #: 419

Phone: 336-725-5844
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: Jim L Myers

Date: 1-28-25

FACILITY INFORMATION

Evo Corporation

1703 Vargrave Street

Winston-Salem NC 27107

Evo Project #: 012528

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: 1/28/25

White/Facility

Canary/Invoice

Pink/Carrier

Appendix E
Tank Disposal Certificate



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

TANK DISPOSAL CERTIFICATE

Tank Owner: NC Department of Transportation (NC DOT)

Site Address: 345 W. Main Street (Parcel 006)
Sylva, Jackson County, NC

Description of Tanks:

<u>Tank Number</u>	<u>Size of Tank</u>	<u>Contents</u>
2	1,000 Gallons	Gasoline
1	750 Gallons	Gasoline

Transporter: Evo Corporation

EC Project #: 012528

Disposal Certification:

Evo Corporation does hereby certify that the above named storage tanks were transported to Metalwood Recycling, 656 Skyland Road, Sylva, NC for proper disposal and recycling.

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

Appendix F
Site Investigation Report for Permanent Closure or Change-in-Service of
Un-Registered UST (UST-2B Form)

UST-2B

Site Investigation Report for Permanent Closure or Change-in-Service of UN-REGISTERED UST



Return completed form to:

NC DEQ / DWM / UST SECTION
1646 MAIL SERVICE CENTER
RALEIGH, NC 27699-1646
ATTN: REGISTRATION & PERMITTING

phone (919) 707-8171 fax (919) 715-1117 <http://www.wastenotnc.org/>

Facility ID #

STATE USE ONLY:

Date Received

INSTRUCTIONS (READ THIS FIRST)

1. UST permanent closure or change in service must be completed in accordance with the latest version of the Guidelines for Site Checks, Tank Closure and Initial Response and Abatement. The guidelines can be obtained at <http://deq.nc.gov/about/divisions/waste-management/waste-management-permit-guidance/underground-storage-tanks-section>.
2. Permanent closure: Complete all sections of this form.
3. Change-in-service: Where UST systems will be converted from storing a regulated substance to a non-regulated substance, complete sections I, II, III, IV, and VI.
4. For more than 5 un-registered UST systems, attach additional forms as needed.
5. **Un-Registered USTs may be subject to unpaid fees and late penalties.**
6. REGISTERED USTs use Form UST-2A.

I. OWNERSHIP OF TANKS

Owner Name (Corporation, Individual, Public Agency, or Other Entity)
Wholesale Investments, LLC

Street Address
1795 S. Church Street, PO Box 4080

City
Cleveland

County
Cleveland

State
TN

Zip Code
37320

Phone Number
N/A

II. LOCATION OF TANKS

Facility Name or Company
Unknown (vacant)

Facility ID # (if known)
NA

Street Address
345 W. Main Street

City
Sylva

County
Jackson

Zip Code
28779

Phone Number
NA

III. CONTACT PERSONNEL

Contact for Facility:
Wholesale Investments, LLC

Job Title:
Owner

Phone #:
N/A

Closure Contractor Name:
Tony Disher

Closure Contractor Company:
EVO Corporation

Address:
Winston-Salem, NC

Phone #
336-725-5844

Primary Consultant Name:
David Graham, PG

Primary Consultant Company:
Hart & Hickman, PC

Address:
Charlotte, NC

Phone #
704-586-0007

IV. UST INFORMATION FOR UN-REGISTERED UST SYSTEMS REGISTERED USTs use Form UST-2A.

V. EXCAVATION CONDITION

Tank ID No.	Size in Gallons	Last Contents	Last Use Date	Permanent Close Date	Method of Permanent Closure: Indicate REMOVED or enter fill material, such as foam/ concrete/ sand	Change-in-Service Date	Water in excavation		Free product		Notable odor or visible soil contamination	
							Yes	No	Yes	No	Yes	No
UST-1	1,000	Gasoline	N/A	1/29/25	Removed		☐	☒	☐	☒	☐	☒
UST-2	750	Gasoline	N/A	1/29/25	Removed		☐	☒	☐	☒	☐	☒
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐

VI. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true accurate and complete.

Print name and official title of owner or owner's authorized representative
David Graham, PG - Project Manager - Hart & Hickman, PC for NC DOT

Signature

Date Signed

March 21, 2025

Appendix G
Certificate of Disposal, Non-Hazardous Materials Manifest, and Certified Weight
Ticket (Soil)



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

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 18.73 tons of non-hazardous contaminated material received on 1/31/2025 from:

Generator: NC Department of Transportation (NC DOT)

Originating at: 345 W. Main Street (Parcel 006)
Sylva, Jackson County, NC

EC Waste ID #: 012528

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. 20268

GENERATOR INFORMATION

Generator: NCDOT
Site Address: 345 W. Main St
City/State: Sylva, NC

Phone: 919-707-6872
Contact: Ashley Cox, Jr.

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): 70440 Material: Soil
Empty Weight (lbs): 32980 Contaminant: Gasoline/Diesel
Net Weight (lbs): 37460

Quantity

18.73

Tons Drums Pails Sacs Yards Other: _____

TRANSPORTER INFORMATION

Transporter: Evo Corporation
Truck #: 221/317

Phone: 336-725-5844
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: 1-31-25

FACILITY INFORMATION

Evo Corporation
1703 Vargrave Street
Winston-Salem NC 27107

Evo Project #: 012528
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: 1/31/25

White/Facility

Canary/Invoice

Pink/Carrier

1095925031243
TICKET NUMBER



**CERTIFIED
AUTOMATED
TRUCK
SCALE**

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(877) 228-7225
www.catscale.com

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.®

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

- (1) Reimburse you for the cost of the overweight fine if our scale is wrong, **OR**
- (2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

- 1) Post bond and request a court date.
- 2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions.
- 3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE: 1-31-25

012528
221/317 11M

SCALE: 959

LOCATION: LOVES COUNTRY STORE

STEER AXLE	9740 lb
DRIVE AXLE	34780 lb
TRAILER AXLE	25920 lb
* GROSS WEIGHT	70440 lb

MARION NC

PUBLIC WEIGHMASTER'S
CERTIFICATE OF
WEIGHT & MEASURE



This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

WEIGH NUMBER
1243

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLES WEIGHED		FREIGHT ALL KINDS	
COMPANY	EVO	TRACTOR #	221
		TRAILER #	317
FEE	\$14.00	WEIGHMASTER OR WEIGHER SIGNATURE	Mark Smith
		FULL WEIGH TICKET # (IF REWEIGH)	

Patent Pending

© CAT Scale® Reg 3187 05/24

Appendix H
Laboratory Analytical Data Report

2/25/2025

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC, 28203

Ref: Analytical Testing
Lab Report Number: 25-034-0006
Client Project Description: ROW-809 Parcel 6

Dear David Graham:

Waypoint Analytical, LLC (Charlotte) received sample(s) on 1/31/2025 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2021) unless otherwise indicated.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,



Angela D Overcash
Senior Project Manager

Certification Summary

Laboratory ID: WP CNC: Waypoint Analytical Carolina, Inc. (Charlotte), Charlotte, NC

State	Program	Lab ID	Expiration Date
North Carolina	State Program	37735	07/31/2025
North Carolina	State Program	402	12/31/2025
South Carolina	State Program	99012	07/31/2025
South Carolina	State Program	99012	12/31/2024

Laboratory ID: WP MTN: Waypoint Analytical, LLC. (Memphis), Memphis, TN

State	Program	Lab ID	Expiration Date
Alabama	State Program	40750	02/28/2025
Arkansas	State Program	88-0650	02/07/2025
California	State Program	2904	06/30/2025
Florida	State Program - NELAP	E871157	06/30/2025
Georgia	State Program	C044	11/14/2025
Georgia	State Program	04015	06/30/2025
Illinois	State Program - NELAP	200078	10/31/2025
Kentucky	State Program	KY90047	12/31/2025
Kentucky	State Program	80215	06/30/2025
Kentucky	State Program	KY90047	12/31/2025
Louisiana	State Program - NELAP	LA037	12/31/2025
Louisiana	State Program - NELAP	04015	06/30/2025
Mississippi	State Program	MS	11/14/2025
North Carolina	State Program	47701	07/31/2025
North Carolina	State Program	415	12/31/2025
Pennsylvania	State Program - NELAP	68-03195	05/31/2025
South Carolina	State Program	84002	06/30/2025
Tennessee	State Program	02027	11/14/2025
Texas	State Program - NELAP	T104704180	09/30/2025
Virginia	State Program	00106	06/30/2025
Virginia	State Program - NELAP	460181	09/14/2025

Sample Summary Table

Report Number: 25-034-0006
Client Project Description: ROW-809 Parcel 6

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
91620	T1-1	Solids	01/29/2025 09:40	01/31/2025 15:11		
91620	T1-1	Solids	01/29/2025 09:40	01/31/2025 15:11	8015C DRO	WP MTN
91621	T1-2	Solids	01/29/2025 09:45	01/31/2025 15:11		
91621	T1-2	Solids	01/29/2025 09:45	01/31/2025 15:11	8015C DRO	WP MTN
91622	T2-1	Solids	01/29/2025 09:50	01/31/2025 15:11		
91622	T2-1	Solids	01/29/2025 09:50	01/31/2025 15:11	8015C DRO	WP MTN
91622	T2-1	Solids	01/29/2025 09:50	01/31/2025 15:11	MADEP-EPH	WP MTN
91622	T2-1	Solids	01/29/2025 09:50	01/31/2025 15:11	8270E	WP MTN
91623	T2-2	Solids	01/29/2025 09:55	01/31/2025 15:11		
91623	T2-2	Solids	01/29/2025 09:55	01/31/2025 15:11	8015C DRO	WP MTN

Summary of Detected Analytes

Project: ROW-809 Parcel 6

Report Number: 25-034-0006

Client Sample ID	Lab Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
T1-1	V 91620					
8015C DRO	Diesel Range Organics (C10-C28)	21.4	mg/Kg - dry	2.70	02/07/2025 17:54	
SW-DRYWT	Moisture	29.5	%		02/04/2025 10:56	
T1-2	V 91621					
8015C DRO	Diesel Range Organics (C10-C28)	8.07	mg/Kg - dry	2.53	02/06/2025 21:15	
SW-DRYWT	Moisture	24.9	%		02/04/2025 14:22	
T2-1	V 91622					
8015C DRO	Diesel Range Organics (C10-C28)	56.4	mg/Kg - dry	2.35	02/07/2025 12:35	
8015C GRO	Gasoline Range Organics (C6-C10)	69.7	mg/Kg - dry	9.67	02/07/2025 00:06	
8260D	Acetone	0.164	mg/Kg - dry	0.002	02/12/2025 20:41	
8260D	Benzene	0.043	mg/Kg - dry	0.0007	02/12/2025 20:41	
8260D	n-Hexane	0.009	mg/Kg - dry	0.0008	02/12/2025 20:41	J
8260D	o-Xylene	0.001	mg/Kg - dry	0.0006	02/12/2025 20:41	J
8260D	m,p-Xylene	0.005	mg/Kg - dry	0.001	02/12/2025 20:41	J
8260D	Xylene (Total)	0.006	mg/Kg - dry	0.0006	02/12/2025 20:41	J
8270E	2-Methylnaphthalene	0.473	mg/Kg - dry	0.121	02/12/2025 17:35	J
8270E	Naphthalene	1.19	mg/Kg - dry	0.134	02/12/2025 17:35	
MADEP-EPH	Aliphatic C9-C18	9.21	mg/Kg - dry	1.46	02/21/2025 20:15	
MADEP-EPH	Aliphatic C19-C36	12.0	mg/Kg - dry	1.17	02/21/2025 20:15	
MADEP-EPH	Aromatic C11-C22	129	mg/Kg - dry	4.88	02/21/2025 20:15	
MADEP-VPH	Aliphatic C5-C8	6.17	mg/Kg - dry	1.51	02/12/2025 04:26	J
MADEP-VPH	Aliphatic C9-C12	54.1	mg/Kg - dry	5.64	02/12/2025 04:26	
MADEP-VPH	Aromatic C9-C10	4.30	mg/Kg - dry	0.771	02/12/2025 04:26	J
SW-DRYWT	Moisture	19.1	%		02/04/2025 14:22	
T2-2	V 91623					
8015C DRO	Diesel Range Organics (C10-C28)	86.8	mg/Kg - dry	2.28	02/07/2025 13:45	
SW-DRYWT	Moisture	16.5	%		02/04/2025 14:22	



Client: Hart & Hickman (Charlotte)
Project: ROW-809 Parcel 6
Lab Report Number: 25-034-0006
Date: 2/10/2025

CASE NARRATIVE

Total Petroleum Hydrocarbons - Extractable Method 8015C DRO

Sample 91623 (T2-2)

QC Batch No: L798585/L798211

Surrogate(s) was flagged for recovery outside QC limits in this project sample. This sample was re-analyzed for verification, and/or dilution of target analytes. Batch QC samples (method blank and laboratory control samples) all showed surrogates within QC limits.

Total Petroleum Hydrocarbons - Volatile Method 8015C GRO

Sample 91622 (T2-1)

QC Batch No: V56101

Surrogate recovery(s) was flagged as outside QC limits due to high levels of target and/or non-target analytes. Batch QC samples (method blank and laboratory control samples) all showed surrogates within QC limits.

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 6

Information :

Report Date : 02/25/2025
Received : 01/31/2025

Report Number : **25-034-0006**

REPORT OF ANALYSIS

Lab No : **91620**

Matrix: **Solids**

Sample ID : **T1-1**

Sampled: **1/29/2025 09:40**

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Method
Moisture	29.5	%			1	02/04/25 10:56	CJR	SW-DRYWT

**Qualifiers/
Definitions**

* Outside QC Limit
I Recovery out of range
MQL Method Quantitation Limit

DF Dilution Factor
J Estimated value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 6

Information :

Report Date : 02/25/2025
Received : 01/31/2025

Report Number : **25-034-0006**

REPORT OF ANALYSIS

Lab No : **91620**

Matrix: **Solids**

Sample ID : **T1-1**

Sampled: **1/29/2025 09:40**

Analytical Method: 8015C DRO

Prep Batch(es): **L798211** 02/05/25 07:30

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Diesel Range Organics (C10-C28)	21.4	mg/Kg - dry	2.70	4.72	1	02/07/25 17:54	MMK	L798585
Surrogate: OTP Surrogate	116		Limits: 50-150%		1	02/07/25 17:54		8015C DRO

Analytical Method: 8015C GRO

Prep Batch(es): **V56100** 02/06/25 13:59

Prep Method: 5035 MED

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Gasoline Range Organics (C6-C10)	<3.66	mg/Kg - dry	3.66	8.84	50	02/06/25 23:08	BLJ	V56101
Surrogate: a,a,a-Trifluorotoluene	82.8		Limits: 50-137%		50	02/06/25 23:08	BLJ	8015C GRO

**Qualifiers/
Definitions**

* Outside QC Limit
I Recovery out of range
MQL Method Quantitation Limit

DF Dilution Factor
J Estimated value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 6

Information :

Report Date : 02/25/2025
Received : 01/31/2025

Report Number : **25-034-0006**

REPORT OF ANALYSIS

Lab No : **91621**

Matrix: **Solids**

Sample ID : **T1-2**

Sampled: **1/29/2025 09:45**

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Method
Moisture	24.9	%			1	02/04/25 14:22	CJR	SW-DRYWT

**Qualifiers/
Definitions**

* Outside QC Limit
I Recovery out of range
MQL Method Quantitation Limit

DF Dilution Factor
J Estimated value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 6

Information :

Report Date : 02/25/2025
Received : 01/31/2025

Report Number : **25-034-0006**

REPORT OF ANALYSIS

Lab No : **91621**

Matrix: **Solids**

Sample ID : **T1-2**

Sampled: **1/29/2025 09:45**

Analytical Method: 8015C DRO

Prep Batch(es): **L798211** 02/05/25 07:30

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Diesel Range Organics (C10-C28)	8.07	mg/Kg - dry	2.53	4.43	1	02/06/25 21:15	MMK	L798585
Surrogate: OTP Surrogate	142		Limits: 50-150%		1	02/06/25 21:15		8015C DRO

Analytical Method: 8015C GRO

Prep Batch(es): **V56100** 02/06/25 13:59

Prep Method: 5035 MED

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Gasoline Range Organics (C6-C10)	<3.37	mg/Kg - dry	3.37	8.12	50	02/06/25 23:37	BLJ	V56101
Surrogate: a,a,a-Trifluorotoluene	73.9		Limits: 50-137%		50	02/06/25 23:37	BLJ	8015C GRO

**Qualifiers/
Definitions**

* Outside QC Limit
I Recovery out of range
MQL Method Quantitation Limit

DF Dilution Factor
J Estimated value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 6

Information :

Report Date : 02/25/2025
Received : 01/31/2025

Report Number : **25-034-0006**

REPORT OF ANALYSIS

Lab No : **91622**

Matrix: **Solids**

Sample ID : **T2-1**

Sampled: **1/29/2025 09:50**

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Method
Moisture	19.1	%			1	02/04/25 14:22	CJR	SW-DRYWT

**Qualifiers/
Definitions**

* Outside QC Limit
I Recovery out of range
MQL Method Quantitation Limit

DF Dilution Factor
J Estimated value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 6

Information :

Report Date : 02/25/2025
Received : 01/31/2025

Report Number : **25-034-0006**

REPORT OF ANALYSIS

Lab No : **91622**

Matrix: **Solids**

Sample ID : **T2-1**

Sampled: **1/29/2025 09:50**

Analytical Method: 8015C DRO

Prep Batch(es): **L798211** 02/05/25 07:30

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Diesel Range Organics (C10-C28)	56.4	mg/Kg - dry	2.35	4.12	1	02/07/25 12:35	MMK	L798585
Surrogate: OTP Surrogate	126		Limits: 50-150%		1	02/07/25 12:35		8015C DRO

Analytical Method: 8015C GRO

Prep Batch(es): **V56100** 02/06/25 13:59

Prep Method: 5035 MED

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Gasoline Range Organics (C6-C10)	69.7	mg/Kg - dry	9.67	23.4	50	02/07/25 00:06	BLJ	V56101
Surrogate: a,a,a-Trifluorotoluene	164 *		Limits: 50-137%		50	02/07/25 00:06	BLJ	8015C GRO

Analytical Method: 8260D

Prep Batch(es): **V56235** 02/12/25 18:27

Prep Method: 5035

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acetone	0.164	mg/Kg - dry	0.002	0.024	1	02/12/25 20:41	BLJ	V56236
Acrolein	<0.001	mg/Kg - dry	0.001	0.024	1	02/12/25 20:41	BLJ	V56236
Acrylonitrile	<0.0009	mg/Kg - dry	0.0009	0.024	1	02/12/25 20:41	BLJ	V56236
Benzene	0.043	mg/Kg - dry	0.0007	0.006	1	02/12/25 20:41	BLJ	V56236
Bromobenzene	<0.0006	mg/Kg - dry	0.0006	0.006	1	02/12/25 20:41	BLJ	V56236
Bromochloromethane	<0.0010	mg/Kg - dry	0.0010	0.006	1	02/12/25 20:41	BLJ	V56236
Bromodichloromethane	<0.001	mg/Kg - dry	0.001	0.006	1	02/12/25 20:41	BLJ	V56236
Bromoform	<0.001	mg/Kg - dry	0.001	0.006	1	02/12/25 20:41	BLJ	V56236
Bromomethane	<0.002	mg/Kg - dry	0.002	0.012	1	02/12/25 20:41	BLJ	V56236

**Qualifiers/
Definitions**

* Outside QC Limit
I Recovery out of range
MQL Method Quantitation Limit

DF Dilution Factor
J Estimated value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 6

Information :

Report Date : 02/25/2025
Received : 01/31/2025

Report Number : **25-034-0006**

REPORT OF ANALYSIS

Lab No : **91622**

Matrix: **Solids**

Sample ID : **T2-1**

Sampled: **1/29/2025 09:50**

Analytical Method: 8260D

Prep Batch(es): **V56235** 02/12/25 18:27

Prep Method: 5035

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
n-Butylbenzene	<0.0006	mg/Kg - dry	0.0006	0.006	1	02/12/25 20:41	BLJ	V56236
sec-Butyl benzene	<0.0007	mg/Kg - dry	0.0007	0.006	1	02/12/25 20:41	BLJ	V56236
tert-Butyl benzene	<0.0006	mg/Kg - dry	0.0006	0.006	1	02/12/25 20:41	BLJ	V56236
Carbon Disulfide	<0.0008	mg/Kg - dry	0.0008	0.006	1	02/12/25 20:41	BLJ	V56236
Carbon Tetrachloride	<0.001	mg/Kg - dry	0.001	0.006	1	02/12/25 20:41	BLJ	V56236
Chlorobenzene	<0.0008	mg/Kg - dry	0.0008	0.006	1	02/12/25 20:41	BLJ	V56236
Chlorodibromomethane	<0.001	mg/Kg - dry	0.001	0.006	1	02/12/25 20:41	BLJ	V56236
Chloroethane	<0.001	mg/Kg - dry	0.001	0.012	1	02/12/25 20:41	BLJ	V56236
Chloroform	<0.001	mg/Kg - dry	0.001	0.006	1	02/12/25 20:41	BLJ	V56236
Chloromethane	<0.0008	mg/Kg - dry	0.0008	0.012	1	02/12/25 20:41	BLJ	V56236
2-Chlorotoluene	<0.0006	mg/Kg - dry	0.0006	0.006	1	02/12/25 20:41	BLJ	V56236
4-Chlorotoluene	<0.0005	mg/Kg - dry	0.0005	0.006	1	02/12/25 20:41	BLJ	V56236
Di-Isopropyl Ether (DIPE)	<0.0009	mg/Kg - dry	0.0009	0.006	1	02/12/25 20:41	BLJ	V56236
1,2-Dibromo-3-Chloropropane	<0.0005	mg/Kg - dry	0.0005	0.012	1	02/12/25 20:41	BLJ	V56236
1,2-Dibromoethane	<0.0007	mg/Kg - dry	0.0007	0.006	1	02/12/25 20:41	BLJ	V56236
Dibromomethane	<0.0007	mg/Kg - dry	0.0007	0.006	1	02/12/25 20:41	BLJ	V56236
1,2-Dichlorobenzene	<0.0004	mg/Kg - dry	0.0004	0.006	1	02/12/25 20:41	BLJ	V56236
1,3-Dichlorobenzene	<0.0005	mg/Kg - dry	0.0005	0.006	1	02/12/25 20:41	BLJ	V56236
1,4-Dichlorobenzene	<0.0007	mg/Kg - dry	0.0007	0.006	1	02/12/25 20:41	BLJ	V56236
Dichlorodifluoromethane	<0.001	mg/Kg - dry	0.001	0.012	1	02/12/25 20:41	BLJ	V56236
1,1-Dichloroethane	<0.001	mg/Kg - dry	0.001	0.006	1	02/12/25 20:41	BLJ	V56236
1,2-Dichloroethane	<0.001	mg/Kg - dry	0.001	0.006	1	02/12/25 20:41	BLJ	V56236

**Qualifiers/
Definitions**

* Outside QC Limit
I Recovery out of range
MQL Method Quantitation Limit

DF Dilution Factor
J Estimated value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 6

Information :

Report Date : 02/25/2025
Received : 01/31/2025

Report Number : **25-034-0006**

REPORT OF ANALYSIS

Lab No : **91622**

Matrix: **Solids**

Sample ID : **T2-1**

Sampled: **1/29/2025 09:50**

Analytical Method: 8260D

Prep Batch(es): **V56235** 02/12/25 18:27

Prep Method: 5035

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
1,1-Dichloroethene	<0.0009	mg/Kg - dry	0.0009	0.006	1	02/12/25 20:41	BLJ	V56236
cis-1,2-Dichloroethene	<0.0010	mg/Kg - dry	0.0010	0.006	1	02/12/25 20:41	BLJ	V56236
trans-1,2-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.006	1	02/12/25 20:41	BLJ	V56236
1,2-Dichloropropane	<0.0005	mg/Kg - dry	0.0005	0.006	1	02/12/25 20:41	BLJ	V56236
1,3-Dichloropropane	<0.0007	mg/Kg - dry	0.0007	0.006	1	02/12/25 20:41	BLJ	V56236
2,2-Dichloropropane	<0.001	mg/Kg - dry	0.001	0.006	1	02/12/25 20:41	BLJ	V56236
1,1-Dichloropropene	<0.0009	mg/Kg - dry	0.0009	0.006	1	02/12/25 20:41	BLJ	V56236
cis-1,3-Dichloropropene	<0.0007	mg/Kg - dry	0.0007	0.006	1	02/12/25 20:41	BLJ	V56236
trans-1,3-Dichloropropene	<0.0010	mg/Kg - dry	0.0010	0.006	1	02/12/25 20:41	BLJ	V56236
Ethanol	<0.017	mg/Kg - dry	0.017	0.309	1	02/12/25 20:41	BLJ	V56236
Ethylbenzene	<0.0007	mg/Kg - dry	0.0007	0.006	1	02/12/25 20:41	BLJ	V56236
Ethyl Tertiary Butyl Ether (ETBE)	<0.001	mg/Kg - dry	0.001	0.061	1	02/12/25 20:41	BLJ	V56236
Hexachlorobutadiene	<0.0010	mg/Kg - dry	0.0010	0.012	1	02/12/25 20:41	BLJ	V56236
n-Hexane	0.009 J	mg/Kg - dry	0.0008	0.012	1	02/12/25 20:41	BLJ	V56236
2-Hexanone	<0.0008	mg/Kg - dry	0.0008	0.024	1	02/12/25 20:41	BLJ	V56236
Isopropylbenzene	<0.0006	mg/Kg - dry	0.0006	0.006	1	02/12/25 20:41	BLJ	V56236
4-Isopropyl toluene	<0.001	mg/Kg - dry	0.001	0.006	1	02/12/25 20:41	BLJ	V56236
Methyl Ethyl Ketone (MEK)	<0.0008	mg/Kg - dry	0.0008	0.024	1	02/12/25 20:41	BLJ	V56236
Methyl tert-butyl ether (MTBE)	<0.0008	mg/Kg - dry	0.0008	0.006	1	02/12/25 20:41	BLJ	V56236
4-Methyl-2-Pentanone	<0.018	mg/Kg - dry	0.018	0.024	1	02/12/25 20:41	BLJ	V56236
Methylene Chloride	<0.001	mg/Kg - dry	0.001	0.012	1	02/12/25 20:41	BLJ	V56236
Naphthalene	<0.001	mg/Kg - dry	0.001	0.012	1	02/12/25 20:41	BLJ	V56236

**Qualifiers/
Definitions**

* Outside QC Limit
I Recovery out of range
MQL Method Quantitation Limit

DF Dilution Factor
J Estimated value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 6

Information :

Report Date : 02/25/2025
Received : 01/31/2025

Report Number : **25-034-0006**

REPORT OF ANALYSIS

Lab No : **91622**

Matrix: **Solids**

Sample ID : **T2-1**

Sampled: **1/29/2025 09:50**

Analytical Method: 8260D

Prep Batch(es): **V56235** 02/12/25 18:27

Prep Method: 5035

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
n-Propylbenzene	<0.0007	mg/Kg - dry	0.0007	0.006	1	02/12/25 20:41	BLJ	V56236
Styrene	<0.001	mg/Kg - dry	0.001	0.006	1	02/12/25 20:41	BLJ	V56236
1,1,1,2-Tetrachloroethane	<0.001	mg/Kg - dry	0.001	0.006	1	02/12/25 20:41	BLJ	V56236
1,1,2,2-Tetrachloroethane	<0.0004	mg/Kg - dry	0.0004	0.006	1	02/12/25 20:41	BLJ	V56236
Tetrachloroethene	<0.001	mg/Kg - dry	0.001	0.006	1	02/12/25 20:41	BLJ	V56236
Toluene	<0.0008	mg/Kg - dry	0.0008	0.006	1	02/12/25 20:41	BLJ	V56236
1,2,3-Trichlorobenzene	<0.0007	mg/Kg - dry	0.0007	0.012	1	02/12/25 20:41	BLJ	V56236
1,2,4-Trichlorobenzene	<0.0008	mg/Kg - dry	0.0008	0.012	1	02/12/25 20:41	BLJ	V56236
1,1,1-Trichloroethane	<0.001	mg/Kg - dry	0.001	0.006	1	02/12/25 20:41	BLJ	V56236
1,1,2-Trichloroethane	<0.0006	mg/Kg - dry	0.0006	0.006	1	02/12/25 20:41	BLJ	V56236
Trichloroethene	<0.001	mg/Kg - dry	0.001	0.006	1	02/12/25 20:41	BLJ	V56236
Trichlorofluoromethane	<0.002	mg/Kg - dry	0.002	0.012	1	02/12/25 20:41	BLJ	V56236
1,2,3-Trichloropropane	<0.0009	mg/Kg - dry	0.0009	0.006	1	02/12/25 20:41	BLJ	V56236
1,2,4-Trimethylbenzene	<0.0006	mg/Kg - dry	0.0006	0.006	1	02/12/25 20:41	BLJ	V56236
1,3,5-Trimethylbenzene	<0.0007	mg/Kg - dry	0.0007	0.006	1	02/12/25 20:41	BLJ	V56236
Vinyl Acetate	<0.0006	mg/Kg - dry	0.0006	0.012	1	02/12/25 20:41	BLJ	V56236
Vinyl Chloride	<0.0006	mg/Kg - dry	0.0006	0.012	1	02/12/25 20:41	BLJ	V56236
o-Xylene	0.001 J	mg/Kg - dry	0.0006	0.006	1	02/12/25 20:41	BLJ	V56236
m,p-Xylene	0.005 J	mg/Kg - dry	0.001	0.012	1	02/12/25 20:41	BLJ	V56236

**Qualifiers/
Definitions**

* Outside QC Limit
I Recovery out of range
MQL Method Quantitation Limit

DF Dilution Factor
J Estimated value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 6

Information :

Report Date : 02/25/2025
Received : 01/31/2025

Report Number : **25-034-0006**

REPORT OF ANALYSIS

Lab No : **91622**

Matrix: **Solids**

Sample ID : **T2-1**

Sampled: **1/29/2025 09:50**

Analytical Method: 8260D

Prep Batch(es): **V56235** 02/12/25 18:27

Prep Method: 5035

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Xylene (Total)	0.006 J	mg/Kg - dry	0.0006	0.006	1	02/12/25 20:41		V56236
Surrogate: 4-Bromofluorobenzene	109		Limits: 70-130%		1	02/12/25 20:41	BLJ	V56236
Surrogate: Dibromofluoromethane	132 *		Limits: 70-130%		1	02/12/25 20:41	BLJ	V56236
Surrogate: Toluene-d8	105		Limits: 70-130%		1	02/12/25 20:41	BLJ	V56236

Analytical Method: 8270E

Prep Batch(es): **L799494** 02/12/25 07:02

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acenaphthene	<0.133	mg/Kg - dry	0.133	0.824	10	02/12/25 17:35	TVD	L800152
Acenaphthylene	<0.145	mg/Kg - dry	0.145	0.824	10	02/12/25 17:35	TVD	L800152
Aniline	<0.054	mg/Kg - dry	0.054	2.10	10	02/12/25 17:35	TVD	L800152
Anthracene	<0.160	mg/Kg - dry	0.160	0.824	10	02/12/25 17:35	TVD	L800152
Benzo(a)anthracene	<0.106	mg/Kg - dry	0.106	0.824	10	02/12/25 17:35	TVD	L800152
Benzo(a)pyrene	<0.127	mg/Kg - dry	0.127	0.824	10	02/12/25 17:35	TVD	L800152
Benzo(b)fluoranthene	<0.104	mg/Kg - dry	0.104	0.824	10	02/12/25 17:35	TVD	L800152
Benzo(g,h,i)perylene	<0.168	mg/Kg - dry	0.168	0.824	10	02/12/25 17:35	TVD	L800152
Benzo(k)fluoranthene	<0.140	mg/Kg - dry	0.140	0.824	10	02/12/25 17:35	TVD	L800152
Benzoic Acid	<0.207	mg/Kg - dry	0.207	4.08	10	02/12/25 17:35	TVD	L800152
Benzyl alcohol	<0.264	mg/Kg - dry	0.264	4.08	10	02/12/25 17:35	TVD	L800152
Bis(2-Chloroethoxy)methane	<0.139	mg/Kg - dry	0.139	2.10	10	02/12/25 17:35	TVD	L800152
Bis(2-Chloroethyl)ether	<0.077	mg/Kg - dry	0.077	2.10	10	02/12/25 17:35	TVD	L800152
Bis(2-Chloroisopropyl)ether	<0.270	mg/Kg - dry	0.270	2.10	10	02/12/25 17:35	TVD	L800152

**Qualifiers/
Definitions**

* Outside QC Limit
I Recovery out of range
MQL Method Quantitation Limit

DF Dilution Factor
J Estimated value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 6

Information :

Report Date : 02/25/2025
Received : 01/31/2025

Report Number : **25-034-0006**

REPORT OF ANALYSIS

Lab No : **91622**

Matrix: **Solids**

Sample ID : **T2-1**

Sampled: **1/29/2025 09:50**

Analytical Method: 8270E

Prep Batch(es): **L799494** 02/12/25 07:02

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Bis(2-ethylhexyl)phthalate	<0.189	mg/Kg - dry	0.189	4.08	10	02/12/25 17:35	TVD	L800152
4-Bromophenyl phenyl ether	<0.186	mg/Kg - dry	0.186	2.10	10	02/12/25 17:35	TVD	L800152
Butyl benzyl phthalate	<0.212	mg/Kg - dry	0.212	2.10	10	02/12/25 17:35	TVD	L800152
4-Chloro-3-methylphenol	<0.199	mg/Kg - dry	0.199	2.10	10	02/12/25 17:35	TVD	L800152
4-Chloroaniline	<0.158	mg/Kg - dry	0.158	2.10	10	02/12/25 17:35	TVD	L800152
2-Chloronaphthalene	<0.114	mg/Kg - dry	0.114	2.10	10	02/12/25 17:35	TVD	L800152
2-Chlorophenol	<0.168	mg/Kg - dry	0.168	2.10	10	02/12/25 17:35	TVD	L800152
4-Chlorophenyl phenyl ether	<0.145	mg/Kg - dry	0.145	2.10	10	02/12/25 17:35	TVD	L800152
Chrysene	<0.135	mg/Kg - dry	0.135	0.824	10	02/12/25 17:35	TVD	L800152
Dibenz(a,h)anthracene	<0.140	mg/Kg - dry	0.140	0.824	10	02/12/25 17:35	TVD	L800152
Dibenzofuran	<0.179	mg/Kg - dry	0.179	2.10	10	02/12/25 17:35	TVD	L800152
1,2-Dichlorobenzene	<0.106	mg/Kg - dry	0.106	2.10	10	02/12/25 17:35	TVD	L800152
1,3-Dichlorobenzene	<0.110	mg/Kg - dry	0.110	2.10	10	02/12/25 17:35	TVD	L800152
1,4-Dichlorobenzene	<0.118	mg/Kg - dry	0.118	2.10	10	02/12/25 17:35	TVD	L800152
3,3'-Dichlorobenzidine	<1.36	mg/Kg - dry	1.36	4.08	10	02/12/25 17:35	TVD	L800152
2,4-Dichlorophenol	<0.189	mg/Kg - dry	0.189	2.10	10	02/12/25 17:35	TVD	L800152
Diethyl phthalate	<0.132	mg/Kg - dry	0.132	2.10	10	02/12/25 17:35	TVD	L800152
Dimethyl phthalate	<0.173	mg/Kg - dry	0.173	2.10	10	02/12/25 17:35	TVD	L800152
2,4-Dimethylphenol	<0.268	mg/Kg - dry	0.268	2.10	10	02/12/25 17:35	TVD	L800152
Di-n-butyl phthalate	<0.179	mg/Kg - dry	0.179	2.10	10	02/12/25 17:35	TVD	L800152
4,6-Dinitro-2-methylphenol	<0.110	mg/Kg - dry	0.110	4.08	10	02/12/25 17:35	TVD	L800152
2,4-Dinitrophenol	<0.117	mg/Kg - dry	0.117	4.08	10	02/12/25 17:35	TVD	L800152

**Qualifiers/
Definitions**

* Outside QC Limit
I Recovery out of range
MQL Method Quantitation Limit

DF Dilution Factor
J Estimated value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 6

Information :

Report Date : 02/25/2025
Received : 01/31/2025

Report Number : **25-034-0006**

REPORT OF ANALYSIS

Lab No : **91622**

Matrix: **Solids**

Sample ID : **T2-1**

Sampled: **1/29/2025 09:50**

Analytical Method: 8270E

Prep Batch(es): **L799494** 02/12/25 07:02

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
2,4-Dinitrotoluene	<0.137	mg/Kg - dry	0.137	2.10	10	02/12/25 17:35	TVD	L800152
2,6-Dinitrotoluene	<0.143	mg/Kg - dry	0.143	2.10	10	02/12/25 17:35	TVD	L800152
Di-n-Octyl Phthalate	<0.273	mg/Kg - dry	0.273	2.10	10	02/12/25 17:35	TVD	L800152
Fluoranthene	<0.123	mg/Kg - dry	0.123	0.824	10	02/12/25 17:35	TVD	L800152
Fluorene	<0.194	mg/Kg - dry	0.194	0.824	10	02/12/25 17:35	TVD	L800152
Hexachlorobenzene	<0.134	mg/Kg - dry	0.134	2.10	10	02/12/25 17:35	TVD	L800152
Hexachlorobutadiene	<0.121	mg/Kg - dry	0.121	2.10	10	02/12/25 17:35	TVD	L800152
Hexachloroethane	<0.131	mg/Kg - dry	0.131	2.10	10	02/12/25 17:35	TVD	L800152
Indeno(1,2,3-cd)pyrene	<0.218	mg/Kg - dry	0.218	0.824	10	02/12/25 17:35	TVD	L800152
Isophorone	<0.138	mg/Kg - dry	0.138	2.10	10	02/12/25 17:35	TVD	L800152
1-Methylnaphthalene	<0.206	mg/Kg - dry	0.206	0.824	10	02/12/25 17:35	TVD	L800152
2-Methylnaphthalene	0.473 J	mg/Kg - dry	0.121	0.824	10	02/12/25 17:35	TVD	L800152
2-Methylphenol	<0.190	mg/Kg - dry	0.190	2.10	10	02/12/25 17:35	TVD	L800152
3&4 Methylphenol	<0.179	mg/Kg - dry	0.179	2.10	10	02/12/25 17:35	TVD	L800152
Naphthalene	1.19	mg/Kg - dry	0.134	0.824	10	02/12/25 17:35	TVD	L800152
2-Nitroaniline	<0.210	mg/Kg - dry	0.210	2.10	10	02/12/25 17:35	TVD	L800152
3-Nitroaniline	<0.118	mg/Kg - dry	0.118	4.08	10	02/12/25 17:35	TVD	L800152
4-Nitroaniline	<0.149	mg/Kg - dry	0.149	2.10	10	02/12/25 17:35	TVD	L800152
Nitrobenzene	<0.079	mg/Kg - dry	0.079	2.10	10	02/12/25 17:35	TVD	L800152
2-Nitrophenol	<0.206	mg/Kg - dry	0.206	2.10	10	02/12/25 17:35	TVD	L800152
4-Nitrophenol	<0.169	mg/Kg - dry	0.169	2.10	10	02/12/25 17:35	TVD	L800152
N-Nitrosodimethylamine	<0.069	mg/Kg - dry	0.069	2.10	10	02/12/25 17:35	TVD	L800152

**Qualifiers/
Definitions**

* Outside QC Limit
I Recovery out of range
MQL Method Quantitation Limit

DF Dilution Factor
J Estimated value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 6

Information :

Report Date : 02/25/2025
Received : 01/31/2025

Report Number : **25-034-0006**

REPORT OF ANALYSIS

Lab No : **91622**

Matrix: **Solids**

Sample ID : **T2-1**

Sampled: **1/29/2025 09:50**

Analytical Method: 8270E

Prep Batch(es): **L799494** 02/12/25 07:02

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
N-Nitrosodiphenylamine	<0.154	mg/Kg - dry	0.154	4.08	10	02/12/25 17:35	TVD	L800152
N-Nitroso-di-n-propylamine	<0.128	mg/Kg - dry	0.128	2.10	10	02/12/25 17:35	TVD	L800152
Pentachlorophenol	<0.229	mg/Kg - dry	0.229	4.08	10	02/12/25 17:35	TVD	L800152
Phenanthrene	<0.170	mg/Kg - dry	0.170	0.824	10	02/12/25 17:35	TVD	L800152
Phenol	<0.252	mg/Kg - dry	0.252	2.10	10	02/12/25 17:35	TVD	L800152
Pyrene	<0.154	mg/Kg - dry	0.154	0.824	10	02/12/25 17:35	TVD	L800152
Pyridine	<0.192	mg/Kg - dry	0.192	4.08	10	02/12/25 17:35	TVD	L800152
1,2,4-Trichlorobenzene	<0.126	mg/Kg - dry	0.126	2.10	10	02/12/25 17:35	TVD	L800152
2,4,5-Trichlorophenol	<0.247	mg/Kg - dry	0.247	2.10	10	02/12/25 17:35	TVD	L800152
2,4,6-Trichlorophenol	<0.182	mg/Kg - dry	0.182	2.10	10	02/12/25 17:35	TVD	L800152
Surrogate: 2-Fluorobiphenyl	51.1		Limits: 20-79%		10	02/12/25 17:35	TVD	L800152
Surrogate: 2-Fluorophenol	32.2		Limits: 10-85%		10	02/12/25 17:35	TVD	L800152
Surrogate: Nitrobenzene-d5	41.9		Limits: 22-72%		10	02/12/25 17:35	TVD	L800152
Surrogate: Phenol-d6	47.7		Limits: 10-96%		10	02/12/25 17:35	TVD	L800152
Surrogate: 4-Terphenyl-d14	59.6		Limits: 22-104%		10	02/12/25 17:35	TVD	L800152
Surrogate: 2,4,6-Tribromophenol	55.9		Limits: 10-112%		10	02/12/25 17:35	TVD	L800152

**Qualifiers/
Definitions**

* Outside QC Limit
I Recovery out of range
MQL Method Quantitation Limit

DF Dilution Factor
J Estimated value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 6

Information :

Report Date : 02/25/2025
Received : 01/31/2025

Report Number : **25-034-0006**

REPORT OF ANALYSIS

Lab No : **91622**

Matrix: **Solids**

Sample ID : **T2-1**

Sampled: **1/29/2025 09:50**

Analytical Method: MADEP-EPH **Prep Batch(es):** **L799493** 02/12/25 07:00

Prep Method: MAEPH (Prep)

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Aliphatic C9-C18	9.21	mg/Kg - dry	1.46	3.71	1	02/21/25 20:15	MMK	L799924
Aliphatic C19-C36	12.0	mg/Kg - dry	1.17	4.94	1	02/21/25 20:15	MMK	L799924
Aromatic C11-C22	129	mg/Kg - dry	4.88	10.5	1	02/21/25 20:15	MMK	L799924
Surrogate: 2-Fluorobiphenyl	96.3		Limits: 40-140%		1	02/21/25 20:15		MADEP-EPH
Surrogate: Chlorooctadecane	46.0		Limits: 40-140%		1	02/21/25 20:15		MADEP-EPH
Surrogate: OTP Surrogate	56.0		Limits: 40-140%		1	02/21/25 20:15		MADEP-EPH

Analytical Method: MADEP-VPH **Prep Batch(es):** **V56215** 02/12/25 02:26

Prep Method: MAVPH (Prep)

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Aliphatic C5-C8	6.17 J	mg/Kg - dry	1.51	9.89	100	02/12/25 04:26	BLJ	V56216
Aliphatic C9-C12	54.1	mg/Kg - dry	5.64	9.89	100	02/12/25 04:26	BLJ	V56216
Aromatic C9-C10	4.30 J	mg/Kg - dry	0.771	9.89	100	02/12/25 04:26	BLJ	V56216
Surrogate: 2,5-Dibromotoluene (FID)	74.8		Limits: 70-130%		100	02/12/25 04:26	BLJ	MADEP-VPH
Surrogate: 2,5-Dibromotoluene (PID)	73.6		Limits: 70-130%		100	02/12/25 04:26	BLJ	MADEP-VPH

**Qualifiers/
Definitions**

* Outside QC Limit
I Recovery out of range
MQL Method Quantitation Limit

DF Dilution Factor
J Estimated value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 6

Information :

Report Date : 02/25/2025
Received : 01/31/2025

Report Number : **25-034-0006**

REPORT OF ANALYSIS

Lab No : **91623**

Matrix: **Solids**

Sample ID : **T2-2**

Sampled: **1/29/2025 09:55**

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Method
Moisture	16.5	%			1	02/04/25 14:22	CJR	SW-DRYWT

**Qualifiers/
Definitions**

* Outside QC Limit
I Recovery out of range
MQL Method Quantitation Limit

DF Dilution Factor
J Estimated value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 6

Information :

Report Date : 02/25/2025
Received : 01/31/2025

Report Number : **25-034-0006**

REPORT OF ANALYSIS

Lab No : **91623**

Matrix: **Solids**

Sample ID : **T2-2**

Sampled: **1/29/2025 09:55**

Analytical Method: 8015C DRO

Prep Batch(es): **L798211** 02/05/25 07:30

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Diesel Range Organics (C10-C28)	86.8	mg/Kg - dry	2.28	3.99	1	02/07/25 13:45	MMK	L798585
Surrogate: OTP Surrogate	151 *		Limits: 50-150%		1	02/07/25 13:45		8015C DRO

Analytical Method: 8015C GRO

Prep Batch(es): **V56100** 02/06/25 13:59

Prep Method: 5035 MED

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Gasoline Range Organics (C6-C10)	<2.50	mg/Kg - dry	2.50	6.04	50	02/07/25 00:34	BLJ	V56101
Surrogate: a,a,a-Trifluorotoluene	78.8		Limits: 50-137%		50	02/07/25 00:34	BLJ	8015C GRO

**Qualifiers/
Definitions**

* Outside QC Limit
I Recovery out of range
MQL Method Quantitation Limit

DF Dilution Factor
J Estimated value

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 6
Report No: 25-034-0006

QC Prep: L798211
QC Prep Batch Method: 3546
QC Analytical Batch(es): L798585
Analysis Method: 8015C DRO
Analysis Description: Total Petroleum Hydrocarbons - Extractable

Lab Reagent Blank LRB-L798211 Matrix: SOL
Associated Lab Samples: 91620, 91621, 91622, 91623

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Diesel Range Organics (C10-C28)	mg/Kg	<1.90	1.90	3.33	02/06/25 02:07		
OTP Surrogate (S)					02/06/25 02:07	117	50-150

Laboratory Control Sample LCS-L798211

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Diesel Range Organics (C10-C28)	mg/Kg	33.3	33.1	99.3	50-150
OTP Surrogate (S)				110	50-150

Matrix Spike & Matrix Spike Duplicate V 91509-MS-L798211 V 91509-MSD-L798211

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Diesel Range Organics (C10-C28)	mg/Kg	<19.0	33.3	32.8	38.7	37.8	81.6	115	50-150	2.3	30
OTP Surrogate (S)							101	95.5	50-150		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 6
Report No: 25-034-0006

QC Prep:	V56100	QC Analytical Batch(es):	V56101
QC Prep Batch Method:	5035 MED	Analysis Method:	8015C GRO
		Analysis Description:	Total Petroleum Hydrocarbons - Volatile

Lab Reagent Blank LRB-V56100 Matrix: SOL
Associated Lab Samples: 91620, 91621, 91622, 91623

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Gasoline Range Organics (C6-C10)	mg/Kg	<2.07	2.07	5.00	02/06/25 16:25		
a,a,a-Trifluorotoluene (S)					02/06/25 16:25	99.8	50-137

Laboratory Control Sample & LCSD LCS-V56100 LCSD-V56100

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Gasoline Range Organics (C6-C10)	mg/Kg	50.0	53.8	48.5	108	97.0	41-138	10.3	20
a,a,a-Trifluorotoluene (S)					109	97.4	50-137		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 6
Report No: 25-034-0006

QC Prep: V56235
QC Prep Batch Method: 5035
QC Analytical Batch(es): V56236
Analysis Method: 8260D
Analysis Description: Volatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-V56235 Matrix: SOL
Associated Lab Samples: 91622

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Acetone	mg/Kg	<0.002	0.002	0.020	02/12/25 20:14		
Acrolein	mg/Kg	<0.001	0.001	0.020	02/12/25 20:14		
Acrylonitrile	mg/Kg	<0.0008	0.0008	0.020	02/12/25 20:14		
Benzene	mg/Kg	<0.0006	0.0006	0.005	02/12/25 20:14		
Bromobenzene	mg/Kg	<0.0005	0.0005	0.005	02/12/25 20:14		
Bromochloromethane	mg/Kg	<0.0008	0.0008	0.005	02/12/25 20:14		
Bromodichloromethane	mg/Kg	<0.001	0.001	0.005	02/12/25 20:14		
Bromoform	mg/Kg	<0.001	0.001	0.005	02/12/25 20:14		
Bromomethane	mg/Kg	<0.001	0.001	0.010	02/12/25 20:14		
n-Butylbenzene	mg/Kg	<0.0005	0.0005	0.005	02/12/25 20:14		
sec-Butyl benzene	mg/Kg	<0.0006	0.0006	0.005	02/12/25 20:14		
tert-Butyl benzene	mg/Kg	<0.0005	0.0005	0.005	02/12/25 20:14		
Carbon Disulfide	mg/Kg	<0.0006	0.0006	0.005	02/12/25 20:14		
Carbon Tetrachloride	mg/Kg	<0.001	0.001	0.005	02/12/25 20:14		
Chlorobenzene	mg/Kg	<0.0007	0.0007	0.005	02/12/25 20:14		
Chlorodibromomethane	mg/Kg	<0.0009	0.0009	0.005	02/12/25 20:14		
Chloroethane	mg/Kg	<0.0009	0.0009	0.010	02/12/25 20:14		
Chloroform	mg/Kg	<0.001	0.001	0.005	02/12/25 20:14		
Chloromethane	mg/Kg	<0.0006	0.0006	0.010	02/12/25 20:14		
2-Chlorotoluene	mg/Kg	<0.0005	0.0005	0.005	02/12/25 20:14		
4-Chlorotoluene	mg/Kg	<0.0004	0.0004	0.005	02/12/25 20:14		
Di-Isopropyl Ether (DIPE)	mg/Kg	<0.0007	0.0007	0.005	02/12/25 20:14		
1,2-Dibromo-3-Chloropropane	mg/Kg	<0.0004	0.0004	0.010	02/12/25 20:14		
1,2-Dibromoethane	mg/Kg	<0.0006	0.0006	0.005	02/12/25 20:14		
Dibromomethane	mg/Kg	<0.0006	0.0006	0.005	02/12/25 20:14		
1,2-Dichlorobenzene	mg/Kg	<0.0003	0.0003	0.005	02/12/25 20:14		
1,3-Dichlorobenzene	mg/Kg	<0.0004	0.0004	0.005	02/12/25 20:14		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 6
Report No: 25-034-0006

QC Prep: V56235
QC Prep Batch Method: 5035
QC Analytical Batch(es): V56236
Analysis Method: 8260D
Analysis Description: Volatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-V56235 Matrix: SOL
Associated Lab Samples: 91622

Parameter	Units	Blank Result	MDL	SQL	Analyzed	% Recovery	% Rec Limits
1,4-Dichlorobenzene	mg/Kg	<0.0006	0.0006	0.005	02/12/25 20:14		
Dichlorodifluoromethane	mg/Kg	<0.001	0.001	0.010	02/12/25 20:14		
1,1-Dichloroethane	mg/Kg	<0.0008	0.0008	0.005	02/12/25 20:14		
1,2-Dichloroethane	mg/Kg	<0.001	0.001	0.005	02/12/25 20:14		
1,1-Dichloroethene	mg/Kg	<0.0007	0.0007	0.005	02/12/25 20:14		
cis-1,2-Dichloroethene	mg/Kg	<0.0008	0.0008	0.005	02/12/25 20:14		
trans-1,2-Dichloroethene	mg/Kg	<0.001	0.001	0.005	02/12/25 20:14		
1,2-Dichloropropane	mg/Kg	<0.0004	0.0004	0.005	02/12/25 20:14		
1,3-Dichloropropane	mg/Kg	<0.0006	0.0006	0.005	02/12/25 20:14		
2,2-Dichloropropane	mg/Kg	<0.001	0.001	0.005	02/12/25 20:14		
1,1-Dichloropropene	mg/Kg	<0.0008	0.0008	0.005	02/12/25 20:14		
cis-1,3-Dichloropropene	mg/Kg	<0.0005	0.0005	0.005	02/12/25 20:14		
trans-1,3-Dichloropropene	mg/Kg	<0.0008	0.0008	0.005	02/12/25 20:14		
Ethanol	mg/Kg	<0.014	0.014	0.250	02/12/25 20:14		
Ethylbenzene	mg/Kg	<0.0006	0.0006	0.005	02/12/25 20:14		
Ethyl Tertiary Butyl Ether (ETBE)	mg/Kg	<0.0008	0.0008	0.050	02/12/25 20:14		
Hexachlorobutadiene	mg/Kg	<0.0008	0.0008	0.010	02/12/25 20:14		
n-Hexane	mg/Kg	<0.0007	0.0007	0.010	02/12/25 20:14		
2-Hexanone	mg/Kg	<0.0006	0.0006	0.020	02/12/25 20:14		
Isopropylbenzene	mg/Kg	<0.0005	0.0005	0.005	02/12/25 20:14		
4-Isopropyl toluene	mg/Kg	<0.001	0.001	0.005	02/12/25 20:14		
Methyl Ethyl Ketone (MEK)	mg/Kg	<0.0007	0.0007	0.020	02/12/25 20:14		
Methyl tert-butyl ether (MTBE)	mg/Kg	<0.0006	0.0006	0.005	02/12/25 20:14		
4-Methyl-2-Pentanone	mg/Kg	<0.015	0.015	0.020	02/12/25 20:14		
Methylene Chloride	mg/Kg	<0.001	0.001	0.010	02/12/25 20:14		
Naphthalene	mg/Kg	<0.0010	0.0010	0.010	02/12/25 20:14		
n-Propylbenzene	mg/Kg	<0.0005	0.0005	0.005	02/12/25 20:14		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 6
Report No: 25-034-0006

QC Prep: V56235
QC Prep Batch Method: 5035
QC Analytical Batch(es): V56236
Analysis Method: 8260D
Analysis Description: Volatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-V56235 Matrix: SOL
Associated Lab Samples: 91622

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Styrene	mg/Kg	<0.001	0.001	0.005	02/12/25 20:14		
1,1,1,2-Tetrachloroethane	mg/Kg	<0.001	0.001	0.005	02/12/25 20:14		
1,1,2,2-Tetrachloroethane	mg/Kg	<0.0003	0.0003	0.005	02/12/25 20:14		
Tetrachloroethene	mg/Kg	<0.0009	0.0009	0.005	02/12/25 20:14		
Toluene	mg/Kg	<0.0007	0.0007	0.005	02/12/25 20:14		
1,2,3-Trichlorobenzene	mg/Kg	0.002	0.0005	0.010	02/12/25 20:14		
1,2,4-Trichlorobenzene	mg/Kg	<0.0006	0.0006	0.010	02/12/25 20:14		
1,1,1-Trichloroethane	mg/Kg	<0.001	0.001	0.005	02/12/25 20:14		
1,1,2-Trichloroethane	mg/Kg	<0.0005	0.0005	0.005	02/12/25 20:14		
Trichloroethene	mg/Kg	<0.0009	0.0009	0.005	02/12/25 20:14		
Trichlorofluoromethane	mg/Kg	<0.002	0.002	0.010	02/12/25 20:14		
1,2,3-Trichloropropane	mg/Kg	<0.0007	0.0007	0.005	02/12/25 20:14		
1,2,4-Trimethylbenzene	mg/Kg	<0.0005	0.0005	0.005	02/12/25 20:14		
1,3,5-Trimethylbenzene	mg/Kg	<0.0005	0.0005	0.005	02/12/25 20:14		
Vinyl Acetate	mg/Kg	<0.0005	0.0005	0.010	02/12/25 20:14		
Vinyl Chloride	mg/Kg	<0.0005	0.0005	0.010	02/12/25 20:14		
o-Xylene	mg/Kg	<0.0005	0.0005	0.005	02/12/25 20:14		
m,p-Xylene	mg/Kg	<0.001	0.001	0.010	02/12/25 20:14		
4-Bromofluorobenzene (S)					02/12/25 20:14	102	70-130
Dibromofluoromethane (S)					02/12/25 20:14	116	70-130
Toluene-d8 (S)					02/12/25 20:14	102	70-130

Laboratory Control Sample & LCSD LCS-V56235 LCSD-V56235

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Acetone	mg/Kg	0.200	0.221	0.393	111	197	29-198	56.0*	20

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 6
Report No: 25-034-0006

QC Prep: V56235
QC Prep Batch Method: 5035
QC Analytical Batch(es): V56236
Analysis Method: 8260D
Analysis Description: Volatile Organic Compounds - GC/MS

Laboratory Control Sample & LCSD LCS-V56235 LCSD-V56235

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Acrolein	mg/Kg	0.200	0.387	0.414	194*	207*	70-130	6.7	20
Acrylonitrile	mg/Kg	0.200	0.284	0.360	142*	180*	65-134	23.6*	20
Benzene	mg/Kg	0.100	0.109	0.101	109	101	74-127	7.6	20
Bromobenzene	mg/Kg	0.100	0.097	0.094	97.3	94.8	73-125	2.6	20
Bromochloromethane	mg/Kg	0.100	0.095	0.120	95.1	120	72-134	23.1*	20
Bromodichloromethane	mg/Kg	0.100	0.117	0.118	117	118	75-122	0.8	20
Bromoform	mg/Kg	0.100	0.120	0.128	120	128	66-135	6.4	20
Bromomethane	mg/Kg	0.100	0.110	0.106	110	106	20-180	3.7	20
n-Butylbenzene	mg/Kg	0.100	0.080	0.073	80.5	73.5	65-135	9.0	20
sec-Butyl benzene	mg/Kg	0.100	0.086	0.079	86.4	79.3	66-131	8.5	20
tert-Butyl benzene	mg/Kg	0.100	0.085	0.079	85.1	79.8	67-132	6.4	20
Carbon Disulfide	mg/Kg	0.100	0.107	0.085	107	85.1	61-129	22.8*	20
Carbon Tetrachloride	mg/Kg	0.100	0.112	0.103	112	103	64-143	8.3	20
Chlorobenzene	mg/Kg	0.100	0.093	0.092	93.8	92.6	74-118	1.2	20
Chlorodibromomethane	mg/Kg	0.100	0.129	0.133	129*	133*	73-122	3.0	20
Chloroethane	mg/Kg	0.100	0.101	0.088	101	88.5	33-149	13.1	20
Chloroform	mg/Kg	0.100	0.109	0.106	109	106	73-127	2.7	20
Chloromethane	mg/Kg	0.100	0.086	0.098	86.2	98.7	45-143	13.5	20
2-Chlorotoluene	mg/Kg	0.100	0.089	0.084	89.9	84.8	67-124	5.8	20
4-Chlorotoluene	mg/Kg	0.100	0.093	0.091	93.2	91.7	71-126	1.6	20
Di-Isopropyl Ether (DIPE)	mg/Kg	0.100	0.110	0.114	110	114	59-159	3.5	20
1,2-Dibromo-3-Chloropropane	mg/Kg	0.100	0.133	0.140	133	140	55-157	5.1	20
1,2-Dibromoethane	mg/Kg	0.100	0.146	0.150	146*	150*	70-132	2.7	20
Dibromomethane	mg/Kg	0.100	0.135	0.143	135*	143*	74-133	5.7	20
1,2-Dichlorobenzene	mg/Kg	0.100	0.099	0.098	99.0	98.9	72-123	0.1	20
1,3-Dichlorobenzene	mg/Kg	0.100	0.092	0.089	92.2	89.6	71-120	2.8	20

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 6
Report No: 25-034-0006

QC Prep: V56235
QC Prep Batch Method: 5035
QC Analytical Batch(es): V56236
Analysis Method: 8260D
Analysis Description: Volatile Organic Compounds - GC/MS

Laboratory Control Sample & LCSD LCS-V56235 LCSD-V56235

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
1,4-Dichlorobenzene	mg/Kg	0.100	0.084	0.083	84.2	83.1	71-123	1.3	20
Dichlorodifluoromethane	mg/Kg	0.100	0.073	0.097	73.3	97.5	26-146	28.3*	20
1,1-Dichloroethane	mg/Kg	0.100	0.103	0.100	103	100	74-127	2.9	20
1,2-Dichloroethane	mg/Kg	0.100	0.128	0.128	128	128	68-128	0.0	20
1,1-Dichloroethene	mg/Kg	0.100	0.096	0.083	96.6	83.9	67-149	14.0	20
cis-1,2-Dichloroethene	mg/Kg	0.100	0.110	0.108	110	108	76-134	1.8	20
trans-1,2-Dichloroethene	mg/Kg	0.100	0.100	0.092	100	92.5	73-132	7.7	20
1,2-Dichloropropane	mg/Kg	0.100	0.112	0.115	112	115	73-130	2.6	20
1,3-Dichloropropane	mg/Kg	0.100	0.133	0.138	133*	138*	75-124	3.6	20
2,2-Dichloropropane	mg/Kg	0.100	0.094	0.086	94.5	86.6	50-142	8.7	20
1,1-Dichloropropene	mg/Kg	0.100	0.092	0.087	92.4	87.3	71-130	5.6	20
cis-1,3-Dichloropropene	mg/Kg	0.100	0.117	0.120	117	120	71-125	2.5	20
trans-1,3-Dichloropropene	mg/Kg	0.100	0.130	0.129	130*	129*	68-123	0.7	20
Ethanol	mg/Kg	2.50	4.35	4.43	174*	177*	70-130	1.8	20
Ethylbenzene	mg/Kg	0.100	0.086	0.083	86.7	83.7	74-128	3.5	20
Ethyl Tertiary Butyl Ether (ETBE)	mg/Kg	0.200	0.230	0.239	115	120	70-130	3.8	20
Hexachlorobutadiene	mg/Kg	0.100	0.084	0.077	84.0	77.3	64-125	8.3	20
n-Hexane	mg/Kg	0.100	0.107	0.094	107	94.1	70-130	12.8	20
2-Hexanone	mg/Kg	0.100	0.148	0.177	148	177*	61-157	17.8	20
Isopropylbenzene	mg/Kg	0.100	0.093	0.080	93.7	80.2	68-126	15.5	20
4-Isopropyl toluene	mg/Kg	0.100	0.084	0.080	84.2	80.0	68-129	5.1	20
Methyl Ethyl Ketone (MEK)	mg/Kg	0.100	0.121	0.123	121	123	63-149	1.6	20
Methyl tert-butyl ether (MTBE)	mg/Kg	0.100	0.126	0.137	126	137*	70-130	8.3	20
4-Methyl-2-Pentanone	mg/Kg	0.100	0.158	0.174	158	174*	57-162	9.6	20
Methylene Chloride	mg/Kg	0.100	0.119	0.115	119	115	74-129	3.4	20
Naphthalene	mg/Kg	0.100	0.128	0.151	128	151	57-157	16.4	20

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 6
Report No: 25-034-0006

QC Prep: V56235 **QC Analytical Batch(es):** V56236
QC Prep Batch Method: 5035 **Analysis Method:** 8260D
Analysis Description: Volatile Organic Compounds - GC/MS

Laboratory Control Sample & LCSD LCS-V56235 LCSD-V56235

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
n-Propylbenzene	mg/Kg	0.100	0.088	0.081	88.6	81.5	67-130	8.3	20
Styrene	mg/Kg	0.100	0.098	0.099	98.8	99.1	77-121	0.3	20
1,1,1,2-Tetrachloroethane	mg/Kg	0.100	0.101	0.099	101	99.9	72-115	1.0	20
1,1,2,2-Tetrachloroethane	mg/Kg	0.100	0.133	0.136	133*	136*	56-126	2.2	20
Tetrachloroethene	mg/Kg	0.100	0.096	0.091	96.5	91.0	68-130	5.8	20
Toluene	mg/Kg	0.100	0.105	0.100	105	100	71-129	4.8	20
1,2,3-Trichlorobenzene	mg/Kg	0.100	0.119	0.130	119	130	68-130	8.8	20
1,2,4-Trichlorobenzene	mg/Kg	0.100	0.104	0.113	104	113	66-125	8.2	20
1,1,1-Trichloroethane	mg/Kg	0.100	0.097	0.092	97.9	92.1	67-131	6.1	20
1,1,2-Trichloroethane	mg/Kg	0.100	0.135	0.142	135*	142*	70-133	5.0	20
Trichloroethene	mg/Kg	0.100	0.100	0.094	100	94.1	75-133	6.0	20
Trichlorofluoromethane	mg/Kg	0.100	0.086	0.088	86.9	88.4	44-146	1.7	20
1,2,3-Trichloropropane	mg/Kg	0.100	0.122	0.123	122	123	60-137	0.8	20
1,2,4-Trimethylbenzene	mg/Kg	0.100	0.091	0.088	91.6	88.9	69-129	2.9	20
1,3,5-Trimethylbenzene	mg/Kg	0.100	0.085	0.083	85.8	83.7	69-128	2.4	20
Vinyl Acetate	mg/Kg	0.100	0.141	0.147	141*	147*	60-140	4.1	20
Vinyl Chloride	mg/Kg	0.100	0.086	0.092	86.6	92.9	48-147	7.0	20
o-Xylene	mg/Kg	0.100	0.089	0.085	89.8	85.7	74-126	4.6	20
m,p-Xylene	mg/Kg	0.200	0.180	0.171	90.0	85.5	75-124	5.1	20
4-Bromofluorobenzene (S)					95.0	108	70-130		
Dibromofluoromethane (S)					111	115	70-130		
Toluene-d8 (S)					103	105	70-130		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 6
Report No: 25-034-0006

QC Prep: L799494
QC Prep Batch Method: 3546
QC Analytical Batch(es): L800152
Analysis Method: 8270E
Analysis Description: Semivolatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-L799494 Matrix: SOL
Associated Lab Samples: 91622

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Acenaphthene	mg/Kg	<0.010	0.010	0.066	02/12/25 12:54		
Acenaphthylene	mg/Kg	<0.011	0.011	0.066	02/12/25 12:54		
Aniline	mg/Kg	<0.004	0.004	0.170	02/12/25 12:54		
Anthracene	mg/Kg	<0.013	0.013	0.066	02/12/25 12:54		
Benzo(a)anthracene	mg/Kg	<0.008	0.008	0.066	02/12/25 12:54		
Benzo(a)pyrene	mg/Kg	<0.010	0.010	0.066	02/12/25 12:54		
Benzo(b)fluoranthene	mg/Kg	<0.008	0.008	0.066	02/12/25 12:54		
Benzo(g,h,i)perylene	mg/Kg	<0.013	0.013	0.066	02/12/25 12:54		
Benzo(k)fluoranthene	mg/Kg	<0.011	0.011	0.066	02/12/25 12:54		
Benzoic Acid	mg/Kg	<0.016	0.016	0.330	02/12/25 12:54		
Benzyl alcohol	mg/Kg	<0.021	0.021	0.330	02/12/25 12:54		
Bis(2-Chloroethoxy)methane	mg/Kg	<0.011	0.011	0.170	02/12/25 12:54		
Bis(2-Chloroethyl)ether	mg/Kg	<0.006	0.006	0.170	02/12/25 12:54		
Bis(2-Chloroisopropyl)ether	mg/Kg	<0.021	0.021	0.170	02/12/25 12:54		
Bis(2-ethylhexyl)phthalate	mg/Kg	<0.015	0.015	0.330	02/12/25 12:54		
4-Bromophenyl phenyl ether	mg/Kg	<0.015	0.015	0.170	02/12/25 12:54		
Butyl benzyl phthalate	mg/Kg	<0.017	0.017	0.170	02/12/25 12:54		
4-Chloro-3-methylphenol	mg/Kg	<0.016	0.016	0.170	02/12/25 12:54		
4-Chloroaniline	mg/Kg	<0.012	0.012	0.170	02/12/25 12:54		
2-Chloronaphthalene	mg/Kg	<0.009	0.009	0.170	02/12/25 12:54		
2-Chlorophenol	mg/Kg	<0.013	0.013	0.170	02/12/25 12:54		
4-Chlorophenyl phenyl ether	mg/Kg	<0.011	0.011	0.170	02/12/25 12:54		
Chrysene	mg/Kg	<0.011	0.011	0.066	02/12/25 12:54		
Dibenz(a,h)anthracene	mg/Kg	<0.011	0.011	0.066	02/12/25 12:54		
Dibenzofuran	mg/Kg	<0.014	0.014	0.170	02/12/25 12:54		
1,2-Dichlorobenzene	mg/Kg	<0.008	0.008	0.170	02/12/25 12:54		
1,3-Dichlorobenzene	mg/Kg	<0.008	0.008	0.170	02/12/25 12:54		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 6
Report No: 25-034-0006

QC Prep: L799494
QC Prep Batch Method: 3546
QC Analytical Batch(es): L800152
Analysis Method: 8270E
Analysis Description: Semivolatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-L799494 Matrix: SOL
Associated Lab Samples: 91622

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
1,4-Dichlorobenzene	mg/Kg	<0.009	0.009	0.170	02/12/25 12:54		
3,3'-Dichlorobenzidine	mg/Kg	<0.110	0.110	0.330	02/12/25 12:54		
2,4-Dichlorophenol	mg/Kg	<0.015	0.015	0.170	02/12/25 12:54		
Diethyl phthalate	mg/Kg	<0.010	0.010	0.170	02/12/25 12:54		
Dimethyl phthalate	mg/Kg	<0.014	0.014	0.170	02/12/25 12:54		
2,4-Dimethylphenol	mg/Kg	<0.021	0.021	0.170	02/12/25 12:54		
Di-n-butyl phthalate	mg/Kg	<0.014	0.014	0.170	02/12/25 12:54		
4,6-Dinitro-2-methylphenol	mg/Kg	<0.008	0.008	0.330	02/12/25 12:54		
2,4-Dinitrophenol	mg/Kg	<0.009	0.009	0.330	02/12/25 12:54		
2,4-Dinitrotoluene	mg/Kg	<0.011	0.011	0.170	02/12/25 12:54		
2,6-Dinitrotoluene	mg/Kg	<0.011	0.011	0.170	02/12/25 12:54		
Di-n-Octyl Phthalate	mg/Kg	<0.022	0.022	0.170	02/12/25 12:54		
Fluoranthene	mg/Kg	<0.010	0.010	0.066	02/12/25 12:54		
Fluorene	mg/Kg	<0.015	0.015	0.066	02/12/25 12:54		
Hexachlorobenzene	mg/Kg	<0.010	0.010	0.170	02/12/25 12:54		
Hexachlorobutadiene	mg/Kg	<0.009	0.009	0.170	02/12/25 12:54		
Hexachloroethane	mg/Kg	<0.010	0.010	0.170	02/12/25 12:54		
Indeno(1,2,3-cd)pyrene	mg/Kg	<0.017	0.017	0.066	02/12/25 12:54		
Isophorone	mg/Kg	<0.011	0.011	0.170	02/12/25 12:54		
1-Methylnaphthalene	mg/Kg	<0.016	0.016	0.066	02/12/25 12:54		
2-Methylnaphthalene	mg/Kg	<0.009	0.009	0.066	02/12/25 12:54		
2-Methylphenol	mg/Kg	<0.015	0.015	0.170	02/12/25 12:54		
3&4 Methylphenol	mg/Kg	<0.014	0.014	0.170	02/12/25 12:54		
Naphthalene	mg/Kg	<0.010	0.010	0.066	02/12/25 12:54		
2-Nitroaniline	mg/Kg	<0.017	0.017	0.170	02/12/25 12:54		
3-Nitroaniline	mg/Kg	<0.009	0.009	0.330	02/12/25 12:54		
4-Nitroaniline	mg/Kg	<0.012	0.012	0.170	02/12/25 12:54		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 6
Report No: 25-034-0006

QC Prep: L799494
QC Prep Batch Method: 3546
QC Analytical Batch(es): L800152
Analysis Method: 8270E
Analysis Description: Semivolatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-L799494 Matrix: SOL
Associated Lab Samples: 91622

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Nitrobenzene	mg/Kg	<0.006	0.006	0.170	02/12/25 12:54		
2-Nitrophenol	mg/Kg	<0.016	0.016	0.170	02/12/25 12:54		
4-Nitrophenol	mg/Kg	<0.013	0.013	0.170	02/12/25 12:54		
N-Nitrosodimethylamine	mg/Kg	<0.005	0.005	0.170	02/12/25 12:54		
N-Nitrosodiphenylamine	mg/Kg	<0.012	0.012	0.330	02/12/25 12:54		
N-Nitroso-di-n-propylamine	mg/Kg	<0.010	0.010	0.170	02/12/25 12:54		
Pentachlorophenol	mg/Kg	<0.018	0.018	0.330	02/12/25 12:54		
Phenanthrene	mg/Kg	<0.013	0.013	0.066	02/12/25 12:54		
Phenol	mg/Kg	<0.020	0.020	0.170	02/12/25 12:54		
Pyrene	mg/Kg	<0.012	0.012	0.066	02/12/25 12:54		
Pyridine	mg/Kg	<0.015	0.015	0.330	02/12/25 12:54		
1,2,4-Trichlorobenzene	mg/Kg	<0.010	0.010	0.170	02/12/25 12:54		
2,4,5-Trichlorophenol	mg/Kg	<0.020	0.020	0.170	02/12/25 12:54		
2,4,6-Trichlorophenol	mg/Kg	<0.014	0.014	0.170	02/12/25 12:54		
2-Fluorobiphenyl (S)					02/12/25 12:54	58.8	20-79
2-Fluorophenol (S)					02/12/25 12:54	51.6	10-85
Nitrobenzene-d5 (S)					02/12/25 12:54	54.6	22-72
Phenol-d6 (S)					02/12/25 12:54	59.7	10-96
4-Terphenyl-d14 (S)					02/12/25 12:54	58.2	22-104
2,4,6-Tribromophenol (S)					02/12/25 12:54	68.7	10-112

Laboratory Control Sample LCS-L799494

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Acenaphthene	mg/Kg	1.67	1.10	65.8	10-146
Acenaphthylene	mg/Kg	1.67	1.00	59.8	10-146
Aniline	mg/Kg	1.67	0.850	50.8	10-146

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 6
Report No: 25-034-0006

QC Prep: L799494
QC Prep Batch Method: 3546
QC Analytical Batch(es): L800152
Analysis Method: 8270E
Analysis Description: Semivolatile Organic Compounds - GC/MS

Laboratory Control Sample LCS-L799494

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Anthracene	mg/Kg	1.67	1.16	69.4	10-146
Benzo(a)anthracene	mg/Kg	1.67	1.14	68.2	10-146
Benzo(a)pyrene	mg/Kg	1.67	1.17	70.0	10-146
Benzo(b)fluoranthene	mg/Kg	1.67	1.25	74.8	10-146
Benzo(g,h,i)perylene	mg/Kg	1.67	1.35	80.8	10-146
Benzo(k)fluoranthene	mg/Kg	1.67	1.07	64.0	10-146
Benzoic Acid	mg/Kg	5.00	4.23	84.6	10-146
Benzyl alcohol	mg/Kg	1.67	1.07	64.0	10-146
Bis(2-Chloroethoxy)methane	mg/Kg	1.67	1.08	64.6	10-146
Bis(2-Chloroethyl)ether	mg/Kg	1.67	1.06	63.4	10-146
Bis(2-Chloroisopropyl)ether	mg/Kg	1.67	0.812	48.6	10-146
Bis(2-ethylhexyl)phthalate	mg/Kg	1.67	1.44	86.2	10-146
4-Bromophenyl phenyl ether	mg/Kg	1.67	1.19	71.2	10-146
Butyl benzyl phthalate	mg/Kg	1.67	1.21	72.4	10-146
4-Chloro-3-methylphenol	mg/Kg	1.67	1.25	74.8	10-146
4-Chloroaniline	mg/Kg	1.67	0.890	53.2	10-146
2-Chloronaphthalene	mg/Kg	1.67	1.01	60.4	10-146
2-Chlorophenol	mg/Kg	1.67	1.07	64.0	10-146
4-Chlorophenyl phenyl ether	mg/Kg	1.67	1.12	67.0	10-146
Chrysene	mg/Kg	1.67	1.10	65.8	10-146
Dibenz(a,h)anthracene	mg/Kg	1.67	1.30	77.8	10-146
Dibenzofuran	mg/Kg	1.67	1.11	66.4	10-146
1,2-Dichlorobenzene	mg/Kg	1.67	1.01	60.4	14-137
1,3-Dichlorobenzene	mg/Kg	1.67	0.919	55.0	14-134
1,4-Dichlorobenzene	mg/Kg	1.67	0.975	58.3	10-141
3,3'-Dichlorobenzidine	mg/Kg	3.33	2.01	60.3	10-146
2,4-Dichlorophenol	mg/Kg	1.67	0.980	58.6	10-146

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 6
Report No: 25-034-0006

QC Prep: L799494
QC Prep Batch Method: 3546
QC Analytical Batch(es): L800152
Analysis Method: 8270E
Analysis Description: Semivolatile Organic Compounds - GC/MS

Laboratory Control Sample LCS-L799494

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Diethyl phthalate	mg/Kg	1.67	1.11	66.4	10-146
Dimethyl phthalate	mg/Kg	1.67	1.11	66.4	10-146
2,4-Dimethylphenol	mg/Kg	1.67	1.19	71.2	10-146
Di-n-butyl phthalate	mg/Kg	1.67	1.22	73.0	10-146
4,6-Dinitro-2-methylphenol	mg/Kg	1.67	1.49	89.2	10-146
2,4-Dinitrophenol	mg/Kg	5.00	3.88	77.6	10-146
2,4-Dinitrotoluene	mg/Kg	1.67	1.32	79.0	10-146
2,6-Dinitrotoluene	mg/Kg	1.67	1.22	73.0	10-146
Di-n-Octyl Phthalate	mg/Kg	1.67	1.33	79.6	10-146
Fluoranthene	mg/Kg	1.67	1.16	69.4	10-146
Fluorene	mg/Kg	1.67	1.09	65.2	10-146
Hexachlorobenzene	mg/Kg	1.67	1.14	68.2	10-146
Hexachlorobutadiene	mg/Kg	1.67	1.07	64.0	33-151
Hexachloroethane	mg/Kg	1.67	1.02	61.0	10-146
Indeno(1,2,3-cd)pyrene	mg/Kg	1.67	1.36	81.4	10-146
Isophorone	mg/Kg	1.67	0.771	46.1	10-146
1-Methylnaphthalene	mg/Kg	1.67	1.08	64.6	10-146
2-Methylnaphthalene	mg/Kg	1.67	1.28	76.6	10-146
2-Methylphenol	mg/Kg	1.67	1.04	62.2	10-146
3&4 Methylphenol	mg/Kg	1.67	1.22	73.0	10-146
Naphthalene	mg/Kg	1.67	1.11	66.4	37-148
2-Nitroaniline	mg/Kg	1.67	1.41	84.4	10-146
3-Nitroaniline	mg/Kg	1.67	0.700	41.9	10-146
4-Nitroaniline	mg/Kg	1.67	1.48	88.6	10-146
Nitrobenzene	mg/Kg	1.67	1.05	62.8	10-146
2-Nitrophenol	mg/Kg	1.67	1.33	79.6	10-146
4-Nitrophenol	mg/Kg	1.67	1.43	85.6	10-146

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 6
Report No: 25-034-0006

QC Prep: L799494
QC Prep Batch Method: 3546
QC Analytical Batch(es): L800152
Analysis Method: 8270E
Analysis Description: Semivolatile Organic Compounds - GC/MS

Laboratory Control Sample LCS-L799494

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
N-Nitrosodimethylamine	mg/Kg	1.67	0.960	57.4	10-146
N-Nitrosodiphenylamine	mg/Kg	1.67	1.00	59.8	10-146
N-Nitroso-di-n-propylamine	mg/Kg	1.67	0.936	56.0	10-146
Pentachlorophenol	mg/Kg	1.67	1.23	73.6	10-146
Phenanthrene	mg/Kg	1.67	1.14	68.2	10-146
Phenol	mg/Kg	1.67	0.992	59.4	10-146
Pyrene	mg/Kg	1.67	1.14	68.2	10-146
Pyridine	mg/Kg	1.67	0.807	48.3	10-146
1,2,4-Trichlorobenzene	mg/Kg	1.67	1.16	69.4	10-146
2,4,5-Trichlorophenol	mg/Kg	1.67	1.15	68.8	10-146
2,4,6-Trichlorophenol	mg/Kg	1.67	1.33	79.6	10-146
2-Fluorobiphenyl (S)				65.7	20-79
2-Fluorophenol (S)				56.7	10-85
Nitrobenzene-d5 (S)				61.8	22-72
Phenol-d6 (S)				59.1	10-96
4-Terphenyl-d14 (S)				63.3	22-104
2,4,6-Tribromophenol (S)				81.3	10-112

Matrix Spike & Matrix Spike Duplicate V 92221-MS-L799494 V 92221-MSD-L799494

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Acenaphthene	mg/Kg	<0.010	1.66	1.66	0.872	0.913	52.5	55.0	10-146	4.5	30
Acenaphthylene	mg/Kg	<0.011	1.66	1.66	0.798	0.832	48.0	50.1	10-146	4.1	30
Aniline	mg/Kg	<0.004	1.66	1.66	0.268	0.240	16.1	14.4	10-146	11.0	30
Anthracene	mg/Kg	<0.013	1.66	1.66	0.957	0.961	57.6	57.8	10-146	0.4	30
Benzo(a)anthracene	mg/Kg	<0.008	1.66	1.66	0.968	0.969	58.3	58.3	10-146	0.1	30

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 6
Report No: 25-034-0006

QC Prep: L799494 **QC Analytical Batch(es):** L800152
QC Prep Batch Method: 3546 **Analysis Method:** 8270E
Analysis Description: Semivolatile Organic Compounds - GC/MS

Matrix Spike & Matrix Spike Duplicate V 92221-MS-L799494 V 92221-MSD-L799494

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Benzo(a)pyrene	mg/Kg	<0.010	1.66	1.66	0.930	0.955	56.0	57.5	10-146	2.6	30
Benzo(b)fluoranthene	mg/Kg	<0.008	1.66	1.66	1.04	1.06	62.6	63.8	10-146	1.9	30
Benzo(g,h,i)perylene	mg/Kg	<0.013	1.66	1.66	0.998	0.883	60.1	53.1	10-146	12.2	30
Benzo(k)fluoranthene	mg/Kg	<0.011	1.66	1.66	0.926	1.01	55.7	60.8	10-146	8.6	30
Benzoic Acid	mg/Kg	<0.016	4.97	4.98	3.37	3.33	67.8	66.8	10-146	1.1	30
Benzyl alcohol	mg/Kg	<0.021	1.66	1.66	0.871	0.902	52.4	54.3	10-146	3.4	30
Bis(2-Chloroethoxy)methane	mg/Kg	<0.011	1.66	1.66	0.936	0.937	56.3	56.4	10-146	0.1	30
Bis(2-Chloroethyl)ether	mg/Kg	<0.006	1.66	1.66	0.873	0.877	52.5	52.8	10-146	0.4	30
Bis(2-Chloroisopropyl)ether	mg/Kg	<0.021	1.66	1.66	0.687	0.705	41.3	42.4	10-146	2.5	30
Bis(2-ethylhexyl)phthalate	mg/Kg	<0.015	1.66	1.66	1.20	1.23	72.2	74.0	10-146	2.4	30
4-Bromophenyl phenyl ether	mg/Kg	<0.015	1.66	1.66	0.987	0.988	59.4	59.5	10-146	0.1	30
Butyl benzyl phthalate	mg/Kg	<0.017	1.66	1.66	1.11	1.11	66.8	66.8	10-146	0.0	30
4-Chloro-3-methylphenol	mg/Kg	<0.016	1.66	1.66	0.945	0.969	56.9	58.3	10-146	2.5	30
4-Chloroaniline	mg/Kg	<0.012	1.66	1.66	0.545	0.508	32.8	30.6	10-146	7.0	30
2-Chloronaphthalene	mg/Kg	<0.009	1.66	1.66	0.813	0.852	48.9	51.3	10-146	4.6	30
2-Chlorophenol	mg/Kg	<0.013	1.66	1.66	0.878	0.938	52.8	56.5	10-146	6.6	30
4-Chlorophenyl phenyl ether	mg/Kg	<0.011	1.66	1.66	0.889	0.916	53.5	55.1	10-146	2.9	30
Chrysene	mg/Kg	<0.011	1.66	1.66	0.891	0.916	53.6	55.1	10-146	2.7	30
Dibenz(a,h)anthracene	mg/Kg	<0.011	1.66	1.66	0.985	0.906	59.3	54.5	10-146	8.3	30
Dibenzofuran	mg/Kg	<0.014	1.66	1.66	0.907	0.945	54.6	56.9	10-146	4.1	30
1,2-Dichlorobenzene	mg/Kg	<0.008	1.66	1.66	0.833	0.881	50.1	53.0	14-137	5.6	30
1,3-Dichlorobenzene	mg/Kg	<0.008	1.66	1.66	0.769	0.794	46.3	47.8	14-134	3.1	30
1,4-Dichlorobenzene	mg/Kg	<0.009	1.66	1.66	0.815	0.852	49.0	51.3	10-141	4.4	30
3,3'-Dichlorobenzidine	mg/Kg	<0.110	3.31	3.32	0.395	0.324	11.9	9.7*	10-146	19.7	30
2,4-Dichlorophenol	mg/Kg	<0.015	1.66	1.66	0.812	0.816	48.9	49.1	10-146	0.4	30
Diethyl phthalate	mg/Kg	<0.010	1.66	1.66	0.901	0.944	54.2	56.8	10-146	4.6	30

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 6
Report No: 25-034-0006

QC Prep: L799494
QC Prep Batch Method: 3546
QC Analytical Batch(es): L800152
Analysis Method: 8270E
Analysis Description: Semivolatile Organic Compounds - GC/MS

Matrix Spike & Matrix Spike Duplicate V 92221-MS-L799494 V 92221-MSD-L799494

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Dimethyl phthalate	mg/Kg	<0.014	1.66	1.66	0.876	0.917	52.7	55.2	10-146	4.5	30
2,4-Dimethylphenol	mg/Kg	<0.021	1.66	1.66	0.653	0.627	39.3	37.7	10-146	4.0	30
Di-n-butyl phthalate	mg/Kg	<0.014	1.66	1.66	1.03	1.03	62.0	62.0	10-146	0.0	30
4,6-Dinitro-2-methylphenol	mg/Kg	<0.008	1.66	1.66	1.24	1.26	74.6	75.9	10-146	1.6	30
2,4-Dinitrophenol	mg/Kg	<0.009	4.97	4.98	3.03	3.13	60.9	62.8	10-146	3.2	30
2,4-Dinitrotoluene	mg/Kg	<0.011	1.66	1.66	1.05	1.09	63.2	65.6	10-146	3.7	30
2,6-Dinitrotoluene	mg/Kg	<0.011	1.66	1.66	0.983	1.00	59.2	60.2	10-146	1.7	30
Di-n-Octyl Phthalate	mg/Kg	<0.022	1.66	1.66	1.30	1.37	78.3	82.5	10-146	5.2	30
Fluoranthene	mg/Kg	<0.010	1.66	1.66	0.953	0.943	57.4	56.8	10-146	1.0	30
Fluorene	mg/Kg	<0.015	1.66	1.66	0.863	0.894	51.9	53.8	10-146	3.5	30
Hexachlorobenzene	mg/Kg	<0.010	1.66	1.66	0.942	0.940	56.7	56.6	10-146	0.2	30
Hexachlorobutadiene	mg/Kg	<0.009	1.66	1.66	0.866	0.914	52.1	55.0	33-151	5.3	30
Hexachloroethane	mg/Kg	<0.010	1.66	1.66	0.879	0.906	52.9	54.5	10-146	3.0	30
Indeno(1,2,3-cd)pyrene	mg/Kg	<0.017	1.66	1.66	0.979	0.875	58.9	52.7	10-146	11.2	30
Isophorone	mg/Kg	<0.011	1.66	1.66	0.636	0.651	38.3	39.2	10-146	2.3	30
1-Methylnaphthalene	mg/Kg	<0.016	1.66	1.66	0.855	0.908	51.5	54.6	10-146	6.0	30
2-Methylnaphthalene	mg/Kg	<0.009	1.66	1.66	1.05	1.07	63.2	64.4	10-146	1.8	30
2-Methylphenol	mg/Kg	<0.015	1.66	1.66	0.745	0.725	44.8	43.6	10-146	2.7	30
3&4 Methylphenol	mg/Kg	<0.014	1.66	1.66	0.849	0.843	51.1	50.7	10-146	0.7	30
Naphthalene	mg/Kg	<0.010	1.66	1.66	0.906	0.924	54.5	55.6	37-148	1.9	30
2-Nitroaniline	mg/Kg	<0.017	1.66	1.66	1.08	1.11	65.0	66.8	10-146	2.7	30
3-Nitroaniline	mg/Kg	<0.009	1.66	1.66	0.583	0.604	35.1	36.3	10-146	3.5	30
4-Nitroaniline	mg/Kg	<0.012	1.66	1.66	1.06	1.11	63.8	66.8	10-146	4.6	30
Nitrobenzene	mg/Kg	<0.006	1.66	1.66	0.835	0.818	50.3	49.2	10-146	2.0	30
2-Nitrophenol	mg/Kg	<0.016	1.66	1.66	1.11	1.16	66.8	69.8	10-146	4.4	30
4-Nitrophenol	mg/Kg	<0.013	1.66	1.66	1.05	1.10	63.2	66.2	10-146	4.6	30

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 6
Report No: 25-034-0006

QC Prep: L799494 **QC Analytical Batch(es):** L800152
QC Prep Batch Method: 3546 **Analysis Method:** 8270E
Analysis Description: Semivolatile Organic Compounds - GC/MS

Matrix Spike & Matrix Spike Duplicate V 92221-MS-L799494 V 92221-MSD-L799494

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
N-Nitrosodimethylamine	mg/Kg	<0.005	1.66	1.66	0.787	0.829	47.4	49.9	10-146	5.1	30
N-Nitrosodiphenylamine	mg/Kg	<0.012	1.66	1.66	0.658	0.658	39.6	39.6	10-146	0.0	30
N-Nitroso-di-n-propylamine	mg/Kg	<0.010	1.66	1.66	0.781	0.800	47.0	48.1	10-146	2.4	30
Pentachlorophenol	mg/Kg	<0.018	1.66	1.66	0.970	0.974	58.4	58.6	10-146	0.4	30
Phenanthrene	mg/Kg	<0.013	1.66	1.66	0.948	0.954	57.1	57.4	10-146	0.6	30
Phenol	mg/Kg	<0.020	1.66	1.66	0.798	0.828	48.0	49.8	10-146	3.6	30
Pyrene	mg/Kg	<0.012	1.66	1.66	0.990	1.00	59.6	60.2	10-146	1.0	30
Pyridine	mg/Kg	<0.015	1.66	1.66	0.364	0.378	21.9	22.7	10-146	3.7	30
1,2,4-Trichlorobenzene	mg/Kg	<0.010	1.66	1.66	0.963	0.985	58.0	59.3	10-146	2.2	30
2,4,5-Trichlorophenol	mg/Kg	<0.020	1.66	1.66	0.897	0.934	54.0	56.2	10-146	4.0	30
2,4,6-Trichlorophenol	mg/Kg	<0.014	1.66	1.66	1.00	0.996	60.2	60.0	10-146	0.4	30
2-Fluorobiphenyl (S)							51.9	53.9	20-79		
2-Fluorophenol (S)							42.9	44.5	10-85		
Nitrobenzene-d5 (S)							50.1	51.2	22-72		
Phenol-d6 (S)							46.2	47.5	10-96		
4-Terphenyl-d14 (S)							55.5	55.7	22-104		
2,4,6-Tribromophenol (S)							57.7	57.2	10-112		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 6
Report No: 25-034-0006

QC Prep: L799493
QC Prep Batch Method: MAEPH (Prep)
QC Analytical Batch(es): L799924
Analysis Method: MADEP-EPH
Analysis Description: Massachusetts EPH

Lab Reagent Blank LRB-L799493 Matrix: SOL
Associated Lab Samples: 91622

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Aliphatic C9-C18	mg/Kg	<1.18	1.18	3.00	02/21/25 17:03		
Aliphatic C19-C36	mg/Kg	<0.948	0.948	4.00	02/21/25 17:03		
Aromatic C11-C22	mg/Kg	<3.95	3.95	8.50	02/21/25 17:03		
2-Fluorobiphenyl (S)					02/21/25 17:03	71.8	40-140
Chlorooctadecane (S)					02/21/25 17:03	55.9	40-140
OTP Surrogate (S)					02/21/25 17:03	63.4	40-140

Laboratory Control Sample LCS-L799493

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Aliphatic C9-C18	mg/Kg	6.67	4.83	72.4	40-140
Aliphatic C19-C36	mg/Kg	10.0	6.87	68.7	40-140
Aromatic C11-C22	mg/Kg	16.7	10.0	59.8	40-140
2-Fluorobiphenyl (S)				83.2	40-140
Chlorooctadecane (S)				46.2	40-140
OTP Surrogate (S)				75.4	40-140

Matrix Spike & Matrix Spike Duplicate V 92183-MS-L799493 V 92183-MSD-L799493

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Aliphatic C9-C18	mg/Kg	2.96	6.67	6.62	6.18	5.33	92.6	80.5	40-140	14.7	50
Aliphatic C19-C36	mg/Kg	15.2	10.0	9.93	13.3	10.7	0.0*	0.0*	40-140	21.6	50
Aromatic C11-C22	mg/Kg	13.5	16.7	16.6	87.3	58.9	442*	273*	40-140	38.8	50
2-Fluorobiphenyl (S)							87.4	82.5	40-140		
Chlorooctadecane (S)							52.2	44.9	40-140		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)

Project Description: ROW-809 Parcel 6

Report No: 25-034-0006

QC Prep: L799493

QC Prep Batch Method: MAEPH (Prep)

QC Analytical Batch(es): L799924

Analysis Method: MADEP-EPH

Analysis Description: Massachusetts EPH

Matrix Spike & Matrix Spike Duplicate V 92183-MS-L799493 V 92183-MSD-L799493

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
OTP Surrogate (S)							54.7	44.3	40-140		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 6
Report No: 25-034-0006

QC Prep: V56215
QC Prep Batch Method: MAVPH (Prep)
QC Analytical Batch(es): V56216
Analysis Method: MADEP-VPH
Analysis Description: Massachusetts VPH

Lab Reagent Blank LRB-V56215 Matrix: SOL
Associated Lab Samples: 91622

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Aliphatic C5-C8	mg/Kg	<1.22	1.22	8.00	02/12/25 03:38		
Aliphatic C9-C12	mg/Kg	<4.56	4.56	8.00	02/12/25 03:38		
Aromatic C9-C10	mg/Kg	<0.624	0.624	8.00	02/12/25 03:38		
2,5-Dibromotoluene (FID) (S)					02/12/25 03:38	71.4	70-130
2,5-Dibromotoluene (PID) (S)					02/12/25 03:38	71.1	70-130

Laboratory Control Sample & LCSD LCS-V56215 LCSD-V56215

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Aliphatic C5-C8	mg/Kg	64.0	49.4	48.3	77.1	75.4	70-130	2.2	50
Aliphatic C9-C12	mg/Kg	96.0	84.2	84.5	87.7	88.0	70-130	0.3	50
Aromatic C9-C10	mg/Kg	21.3	21.1	20.8	99.0	97.6	70-130	1.4	50
2,5-Dibromotoluene (FID) (S)					76.0	70.2	70-130		
2,5-Dibromotoluene (PID) (S)					74.8	71.0	70-130		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 6
Report No: 25-034-0006

QC Analytical Batch: V55976
Analysis Method: SW-DRYWT
Analysis Description: Dry Weight Determination

Duplicate V 91620-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Moisture	%	29.5	30.4	3.0	20.0	02/04/25 10:56



Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 6
Report No: 25-034-0006

QC Analytical Batch: V55990
Analysis Method: SW-DRYWT
Analysis Description: Dry Weight Determination

Duplicate V 91629-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Moisture	%	24.1	24.4	1.2	20.0	02/04/25 14:22

Shipment Receipt Form

Customer Number: **01102**

Customer Name: **Hart & Hickman (Charlotte)**

Report Number: **25-034-0006**

Shipping Method

☐ Fed Ex	☐ US Postal	☐ Lab	☐ Other :	
☐ UPS	☒ Client	☐ Courier	Thermometer ID:	IRT15 1.1C

Shipping container/cooler uncompromised?	☒ Yes	☐ No	
Number of coolers/boxes received	1		
Custody seals intact on shipping container/cooler?	☐ Yes	☐ No	☒ Not Present
Custody seals intact on sample bottles?	☐ Yes	☐ No	☒ Not Present
Chain of Custody (COC) present?	☒ Yes	☐ No	
COC agrees with sample label(s)?	☒ Yes	☐ No	
COC properly completed	☒ Yes	☐ No	
Samples in proper containers?	☒ Yes	☐ No	
Sample containers intact?	☒ Yes	☐ No	
Sufficient sample volume for indicated test(s)?	☒ Yes	☐ No	
All samples received within holding time?	☒ Yes	☐ No	
Cooler temperature in compliance?	☒ Yes	☐ No	☐ Not Present
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	☒ Yes	☐ No	
Water - Sample containers properly preserved	☐ Yes	☐ No	☒ N/A
Water - VOA vials free of headspace	☐ Yes	☐ No	☒ N/A
Trip Blanks received with VOAs	☐ Yes	☐ No	☒ N/A
Soil VOA method 5035 – compliance criteria met	☒ Yes	☐ No	☐ N/A
☐ High concentration container (48 hr)	☐ Low concentration EnCore samplers (48 hr)		
☒ High concentration pre-weighed (methanol -14 d)	☒ Low conc pre-weighed vials (Sod Bis -14 d)		
Special precautions or instructions included?	☐ Yes	☒ No	

Comments:

Signature:

Angelo Norvell

Date & Time:

02/03/2025 11:04:51

Via Email

May 1, 2025

NC DOT Geotechnical Unit
GeoEnvironmental Section
1589 Mail Service Center
Raleigh, North Carolina 27699-1589

Attention: Mr. Ashley Cox, Jr., LG

Re: Initial Abatement Action Report – Parcel 132
NC DOT State Project No. R-5600
WBS Element No. 45818.1.FR1
Sylva, Jackson County, North Carolina
H&H Job No. ROW-809

Dear Ashley:

Please find the attached PDF copy of the Initial Abatement Action Report for the Kathy Watkins et al property (Parcel 132) located in Sylva, Jackson County, North Carolina. Please return via DocuSign for final signatures. If you have any questions or need additional information, please contact us at (704) 586-0007.

Sincerely,

Hart & Hickman, PC



David Graham, PG
Project Manager



Matt Bramblett, PE
Principal

Attachment

INITIAL ABATEMENT ACTION REPORT

H&H JOB NO. ROW-809

MAY 1, 2025



NC DOT PARCEL #132 – 1668 E. MAIN STREET

Sylva, Jackson County, North Carolina

State Project R-5600

WBS Element #45818.1.FR1



SMARTER ENVIRONMENTAL SOLUTIONS

#C-1269 Engineering / #C-245 Geology

Initial Abatement Action Report

1.0 Site Information

1.1 Site Identification

Date of Report: May 1, 2025 Site Risk: Unknown
Facility ID: Unknown UST Incident Number: 49916
Site Name: NC DOT Parcel 132
Site Street Address: 1668 E. Main Street
City, Town: Sylva Zip Code: 28779 County: Jackson
Description of Geographical Data Point: Center of Former UST location
Location Method: Google Earth
Latitude: 35.355344 N Longitude: -83.201182 W

1.2. Information about Contacts Associated with the Leaking UST System

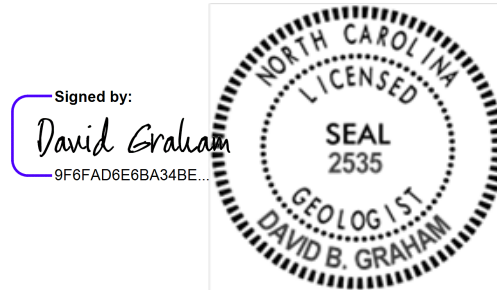
UST/AST Owner: Kathy Watkins et al. Email: NA
Address: P.O. Box 313, Webster, NC 28778 Tel.: (828) 507-0628
UST/AST Operator Kathy Watkins et al. Email: NA
Address: P.O. Box 313, Webster, NC 28778 Tel.: (828) 507-0628
Property Owner: Kathy Watkins et al. Email: NA
Address: P.O. Box 313, Webster, NC 28778 Tel.: (828) 507-0628
Property Occupant: Residence (unknown) Email: NA
Address: 1668 E. Main Street, Sylva, NC, 28779 Tel.: NA
Consultant/Contractor: Hart & Hickman, PC Email: dgraham@harthickman.com
Address: 2923 South Tryon Street, Suite 100, Charlotte, NC 28203
Tel.: (704) 586-0007
Analytical Laboratory: Waypoint Analytical State Cert. No. 402
Address: 449 Springbrook Road, Charlotte, NC 28217 Tel.: (704) 529-6364

1.3 Information About Release

Date Discovered: Preliminary laboratory report dated February 10, 2025 indicated petroleum detections in a UST closure soil sample above NC DEQ Action Levels
Estimated Quantity of Release: Unknown
Cause of Release: Unknown
Source of Release: Underground storage tank
Sizes and contents of Tanks or other Containment from which the release occurred: One 1,000-gallon fuel oil UST

1.4 Certification

I, David Graham, PG a Licensed Geologist at Hart & Hickman, PC, do certify that the information contained in this report is correct and accurate to the best of my knowledge.



Hart & Hickman, PC is licensed to practice geology/engineering in North Carolina. The certification numbers of the company are C-245/C-1269.

2.0 Executive Summary

The North Carolina Department of Transportation (NC DOT) is planning to conduct road improvement activities along East and West Main Street in Sylva, NC. On behalf of NC DOT, Hart & Hickman, PC (H&H) previously conducted Phase II assessment activities in proposed NC DOT work areas on Parcel 132 (1668 E. Main Street) in September and October 2022. As part of Phase II assessment activities, H&H contracted with Pyramid Geophysical Services (Pyramid) to identify potential USTs within proposed NC DOT work areas using electromagnetic (EM) induction technology and ground penetrating radar (GPR). The EM/GPR survey identified one potential UST on Parcel 132.

At NC DOT's request, H&H and our UST closure contractor, EVO Corporation (EVO), mobilized to the Site on January 29 through 31, 2025 to investigate and remove the UST. An exploratory excavation was conducted to remove overburden soil to uncover the UST. During excavation activities, one UST (UST-1) was identified beneath the overburden soil. UST-1 was estimated to be 1,000-gallons in capacity. The UST was removed, and UST closure soil samples were collected from the former tank basin in accordance with North Carolina Department of Environmental Quality (NC DEQ) guidelines. Concentrations of petroleum constituents were detected in one of the two UST closure soil samples collected beneath the UST above NC DEQ Action Levels. No product piping or dispenser areas were identified near the UST.

3.0 Site History and Characterization

3.1 UST Owner and Operator Information Table

UST ID Number	NA		Facility ID Number	NA
Owner Name (and Contact)			Dates of Operation (mm/dd/yy to mm/dd/yy)	
Kathy Watkins et al			Unknown	
Street Address				
PO Box 313				
City	State	Zip	Telephone Number	
Webster	NC	28778	(828) 507-0628	
Operator Name (and Contact)			Dates of Operation (mm/dd/yy to mm/dd/yy)	
Kathy Watkins et al			Unknown	
Street Address				
PO Box 313				
City	State	Zip	Telephone Number	
Webster	NC	28778	(828) 507-0628	
Other Incidents Onsite or Commingled/In Close Proximity				
Incident Number	5325		Date Incident Occurred	1989
Name of Responsible Party for Other Incident			Date Incident Reported	November 15, 1989
Iredell Leasing Co./Ray Coward (deceased)			Date Incident Closed	NA
Street Address				
1674 E. Main Street				
City	State	Zip	Telephone Number	
Sylva	NC	28779	NA	

3.2 UST Information Table

UST ID Number	Current/Last Contents	Previous Contents	Capacity (gallons)	Construction Details	Approximate Tank Dimensions	Description of Associated Piping and Pumps	Date Tank Installed	Status of UST	Was release associated with the UST System?
UST-1	Fuel Oil	N/A	1,000	Single-walled steel	12 ft x 3.5 ft	No piping or pumps identified.	Unknown	Removed 01/30/2025	Yes

3.3 Non-UST Spills at the Site

There are no non-UST spills known to be associated with NC DOT Parcel 132.

3.4 Description of Release

NC DOT is conducting road improvement activities along East Main Street in Sylva, NC near Parcel 132. A site location map is presented as Figure 1, and a site map is presented as Figure 2. H&H previously conducted Phase II assessment activities within proposed NC DOT work areas on Parcel 132 in September and October 2022. During the Phase II activities, a geophysical survey was conducted by Pyramid to identify potential USTs within proposed NC DOT work areas. One potential UST was identified adjacent to a building near the center of the property using EM and GPR. A potential fill port and vent pipe were identified near the UST. Concentrations of target petroleum constituents were also detected in soil and groundwater samples collected during Phase II assessment activities within proposed NC DOT work areas on Parcel 132 above NC DEQ Action Levels and the 15A NCAC 2L .0202 Groundwater Quality Standards (2L Standards), respectively. The results of the soil and groundwater sampling activities and geophysical survey are described in H&H's Phase II Investigation Report dated November 30, 2022.

At the request of NC DOT, H&H supervised the removal of the UST that was identified on Parcel 132. H&H contracted EVO Corporation (EVO) of Winston-Salem, North Carolina to perform the UST investigation and removal activities. On January 30, 2025, the UST was excavated and transported off-site for proper disposal and recycling. Based on field observations, the UST contained fuel oil. After UST removal, soil samples (T1-1 and T1-2) were collected beneath the former UST. The soil samples were submitted to a NC certified laboratory for analysis of total petroleum hydrocarbons (TPH) as gasoline range organics (GRO) and diesel range organics (DRO) by EPA Method 8015. Soil screening results indicated the presence of elevated organic vapors in the soil samples collected beneath the UST.

The laboratory analytical results indicate concentrations of TPH GRO (103 mg/kg) and TPH DRO (42,100 mg/kg) were detected in soil sample T1-1 above the NC DEQ Action Levels of 50 mg/kg and 100 mg/kg, respectively. A low level concentration of TPH DRO (49.1 mg/kg) was detected in soil sample T2-1 below the NC DEQ Action Level. Based on field screening, no impacted overburden soil was identified during UST closure activities.

At NC DOT's request, no over-excavation activities were conducted at the UST location during UST removal activities. However, to put the site in a position to potentially obtain regulatory closure in the event that TPH detections were found above NC DEQ Action Levels, soil sample portions were collected at each closure sample location for potential risk-based analyses. Based on discussions between NC DOT and NC DEQ, because TPH DRO and GRO exceeded NC DEQ Action Levels in closure soil sample T1-1, soil sample T1-1 was also analyzed for volatile organic compounds (VOCs) by EPA Method 8260, semi-VOCs (SVOCs) by EPA Method 8270, and extractable petroleum hydrocarbons (EPH) and volatile petroleum hydrocarbons (VPH) by the Massachusetts Department of Environmental

Protection (MADEP) Methods. Laboratory analytical results were compared to NC DEQ Soil-to-Water, Residential, and Industrial/Commercial Maximum Soil Contaminant Concentrations (MSCCs).

3.5 Site Characteristics

Parcel 132 is currently occupied by residence. The property was previously occupied by a Crossfit training facility and Ray's Grocery which operated as a convenience store and gasoline station (NC DEQ Incident #5325). The Ray's Grocery incident is discussed further in Section 3.6 below. Two of the three structures that were on Parcel 32 were recently demolished. The residence noted above is the only structure that is currently located on the property. The Site is located in a mixed commercial and residential area of Sylva, Jackson County. A topographic site location map is presented as Figure 1, and a site map is presented as Figure 2.

The subject Site is located in the Blue Ridge Physiographic Province of North Carolina. The land surface of the area is generally characterized as inter-mountain basins surrounded by moderate-to-steep sloped mountains, which may become steeper where intersected by streams. Within the Site area, underlying bedrock is composed of predominantly biotite gneiss that is inter-layered and gradational with biotite-garnet gneiss and amphibolite. Locally, quartz and aluminosilicates are abundant.

Visual observations during the UST excavation activities indicate that the soil in the area of the UST excavation consists of tan and brown sandy silt to a depth of approximately 4 ft below ground surface (bgs). Groundwater was measured approximately 4.5 bgs in an existing monitoring well (MW-1) that was identified on Parcel 132 during UST closure activities (see Section 3.6). No groundwater was observed in the base of the UST excavation area. Bedrock was not encountered during the UST removal activities. The groundwater flow direction likely follows topography and flows from northeast to southwest.

H&H did not conduct a water supply well survey during UST closure activities. However, H&H identified a potential water supply well in the southeast portion of the site during Phase II assessment activities (see Figure 2). According to ESP Associates, Inc. (ESP) Monitoring Report dated February 27, 2025 (discussed in Section 3.6), a water supply well (WSW-1) is also located near the center of the Site and 14 other water supply wells are located within 1,500 ft of the Site. The location of water supply wells within 1,000 ft of the Site are shown on Figure 5 from ESP's Monitoring Report which is included in Appendix A. Mill Creek runs through a culvert on the eastern portion of the property. No other surface waters were identified near the Site.

3.6 Initial Abatement Actions, Assessment Activities, and Corrective Actions performed to Date

H&H reviewed the NC DEQ Laserfiche website for incident files related to the Parcel 132 address. NC DEQ Incident No. 5325 is associated with this property. Review of limited NC DEQ files indicates that the property was previously occupied by Ray's Grocery. According

ESP's Monitoring Report dated February 27, 2025 four 4,000-gallon gasoline USTs were previously located on or near Parcel 132. A gasoline release was identified in Mill Creek downgradient of a leaking gasoline UST in 1989. Mill Creek runs through a culvert beneath the eastern portion of the property. One leaking UST was removed in 1991. The three remaining USTs were removed from the site in 1994. The Ray's Grocery Incident is eligible for assessment and cleanup through the NC DEQ State Lead Cleanup Program. Soil and groundwater assessment activities conducted at the site in 2023 indicated the presence of petroleum-related constituents above the Soil-to-Water/Residential MSCCs and the 2L Standards, respectively. Four monitoring wells (MW-1 through MW-4) were installed at the Site and off-site property to the south in 2023. An existing monitoring well (MW-3R) is also located on the off-site property to the south. Monitoring wells MW-1 and MW-2 are located on Parcel 024. ESP conducted a remedial injection event using BOS200+ in April 2024 to reduce groundwater concentrations at the site. Pertinent information from ESP's Monitoring Report is included in Appendix A.

4.0 UST Closure Report following UST-12 format and Site Investigation Report for Permanent Closure or Change-in-Service of UST (UST-2 Form)

4.1 Preparations for Closure Including the Steps Taken to Notify Authorities, Permits Obtained and the Steps Taken to Clean and Purge the Tanks

Prior to UST excavation activities, H&H submitted a Notice of Intent: UST Permanent Closure or Change-in-Service (UST-3) form to NC DEQ on January 10, 2025. A copy of the UST-3 form is provided in Appendix B. EVO obtained a fire permit from the Jackson County Fire Department Prior to conducting UST removal activities. A copy of the email approval of the fire inspection results is included in Appendix C. H&H prepared a site-specific Health and Safety Plan for UST closure activities. A copy of the Health and Safety Plan is included in Appendix D.

On January 29 through January 31, 2025, EVO mobilized to the site to remove the UST. During excavation activities, one 1,000-gallon UST (UST-1) was identified and removed. Residual liquids were pumped from the tank into a vacuum truck provided by EVO prior to removal of the UST. In addition, prior to removal, the interior of the tank was triple-rinsed with a pressure washer and the water was removed with the vacuum truck. Approximately 856 gallons of residual liquids and rinse water were pumped from the UST and properly disposed by EVO. The certificate of disposal and non-hazardous materials manifest for removed residual liquids are included in Appendix E.

Prior to the removal of the UST, dry ice (carbon dioxide) was added to purge potential explosive vapors from the UST. A lower explosion level (LEL) meter was utilized to monitor for explosive atmospheres to confirm readings within the tank were less than 10% of the LEL prior to UST removal.

4.2 Closure Procedures

Initially, soil was removed from the top and sides of the UST with an excavator so that the tank could be removed from the ground. Soil encountered during the excavation was evaluated in the field for the presence of odors, staining, and organic vapor readings as detected with a photoionization detector (PID). The PID was calibrated prior to its use against an isobutylene standard. Soil screening results indicated the presence of elevated organic vapors in the soil samples collected beneath the UST.

Following removal, the UST was observed for evidence of holes and corrosion. Some pitting and corrosion were observed on the UST including a small pinhole located on the western side of the UST. No dispensers or product piping were identified near the UST. The UST was transported off-Site by EVO to Metalwood Recycling in Sylva, North Carolina for proper disposal and recycling. The Tank Disposal Certificate is included in Appendix F.

After UST removal, closure soil samples were collected in accordance with the NC DEQ UST Section *Guidelines for Site Checks, Tank Closure, and Initial Response and Abatement for UST Releases*, May 17, 2021 Version, Change 11 - 2021 (*Guidelines*). There were field indications of a release based on PID readings of the closure soil samples. The top of the UST was partially exposed prior to UST removal activities. Based on PID readings, there was no indication of impacts in the minimal overburden soil near the top of the tank.

After closure sampling, the excavation was backfilled with fill material provided by EVO.

H&H completed a Site Investigation Report for Permanent Closure or Change-in-Service of Un-Registered UST (UST-2B Form) for the 1,000-gallon fuel oil UST. The completed UST-2B Form is included in Appendix G.

Groundwater was not encountered during UST closure activities.

4.3 Residual Material

Removal of residual liquids from the UST is described in Section 4.1 above.

4.4 Initial Response Actions

A UST release was confirmed based on the preliminary laboratory report of UST closure soil samples dated February 10, 2025. Initial response and abatement actions are described in H&H's 24-Hour Release and UST Leak Reporting Form dated February 11, 2025, 20-Day Report and Project Update letter dated March 4, 2025, and in Section 4.0 of this report.

4.5 Soil excavation activities:

As described above, overburden soils were removed from the top and sides of the UST with an excavator so that the tank could be removed from the ground. Soils encountered during the excavation were evaluated in the field for the presence of odors, staining, and organic

vapor readings using a PID. There was evidence of a release based on PID readings of closure soils samples collected from beneath the UST. Based on PID readings, there was no indication of impacts in the overburden soil near the top of the tank. At NC DOT's request, no over-excavation activities were conducted at the UST location during UST removal activities.

The approximate extent of the UST excavation area is shown on Figure 2. The top of the UST was less than 1 ft bgs. The top of the UST was partially exposed prior to UST removal activities. Soil in the UST basin consisted of tan and brown sandy silt to a depth of approximately 4 ft bgs. The excavation was backfilled with #57 stone and capped with approximately 3-inches of ABC stone. The stone was obtained from Harrison Construction in Dillsboro, NC. At the direction of NC DOT, no compaction testing was performed.

5.0 Site investigation

5.1 Field Screening

Field screening of soil samples collected beneath the UST and overburden soil was conducted using a PID. Soil samples were placed in plastic Ziploc® bags and subsequently screened with the PID. There were field indications of a release based on PID readings of the closure soil samples. PID screening results for the closure soil samples are presented in Table 1.

5.2 Soil Sampling Information

After removal of the 1,000-gallon fuel oil UST, closure soil samples were collected in accordance with the NC DEQ UST Section *Guidelines* using the excavator bucket. Soil samples were collected from the center of the excavator bucket from soil not in direct contact with the bucket. Soil samples T1-1 and T1-2 were collected approximately 4 ft bgs beneath the centerline of UST-1. The closure samples were submitted to Waypoint Analytical (Waypoint), a NC certified laboratory, for analysis of TPH DRO and GRO by EPA Method 8015. As noted above, sample portions from each closure sample location were placed on hold with the laboratory for analysis of VOCs by EPA Method 8260, SVOCs by EPA Method 8270, and EPH and VPH by the MADEP methods. The locations of the UST closure soil samples are depicted on Figure 2.

5.3 Groundwater and Surface Water

No groundwater or surface water samples were collected during UST closure activities.

5.4 Quality Control Information

During UST closure activities, soil samples were collected using a nitrile glove-covered hand, placed into laboratory-supplied sample containers, and then labeled as to content, analyses requested, sample date and time, and sampler's name. The samples were placed in

an iced cooler upon collection and were subsequently submitted to Waypoint under standard chain-of-custody protocol.

5.5 Soil Investigation Results

The laboratory analytical results indicate concentrations of TPH GRO (103 mg/kg) and TPH DRO (42,100 mg/kg) were detected in soil sample T1-1 above the NC DEQ Action Levels of 50 mg/kg and 100 mg/kg, respectively. A low level concentration of TPH DRO (49.1 mg/kg) was detected in soil sample T2-1 below the NC DEQ Action Level.

Based on discussions between NC DOT and NC DEQ, because TPH DRO and GRO exceeded the NC DEQ Action Levels in closure soil sample T1-1, soil sample T1-1 was also analyzed for VOCs, SVOCs, and EPH and VPH by the MADEP Methods. Laboratory analytical results indicate concentrations of VOCs, SVOCs, and MADEP EPH and VPH were detected in soil sample T1-1 above the NC DEQ Soil-to-Water MSCCs. Concentrations of naphthalene, Total C9-C18 Aliphatics, and Total C9-C22 Aromatics detected in soil sample T1-1 also exceeded their respective Residential MSCCs. Soil sample analytical results, analytical methods, PID readings, and sample depths are summarized in Table 1. The laboratory analytical data report and chain-of-custody record are provided in Appendix H.

6.0 Conclusions

Between January 29 and 31, 2025, one 1,000-gallon fuel oil UST was removed from the subject property, and the excavation was backfilled. No groundwater or bedrock was encountered during UST closure activities. In addition, non-aqueous phase liquid (NAPL) was not identified during UST closure activities. Concentrations of TPH DRO and GRO and other target petroleum constituents were detected above the NC DEQ Action Level and Soil-to-Water and/or Residential MSCCs, respectively, in one of the two closure soil samples collected beneath the UST. Based on the UST closure soil sample analytical data, petroleum impacted soil above the NC DEQ Action level and MSCCs remains in the former UST excavation area.

Tables

Table 1	Summary of Soil Analytical Results
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Figures

Figure 1	Site Location Map
Figure 2	Site Map and Soil Analytical Results

Appendices

Appendix A	ESP Associates, Inc. Monitoring Report
Appendix B	Notice of Intent: UST Permanent Closure or Change in Service Form (UST-3 form)
Appendix C	Fire Permit Inspection Approval Email
Appendix D	Health and Safety Plan
Appendix E	Certificate of Disposal and Non-Hazardous Materials Manifest (Liquid)
Appendix F	Tank Disposal Certificate
Appendix G	Site Investigation Report for Permanent Closure or Change-in-Service of Un-Registered UST (UST-2B Form)
Appendix H	Laboratory Analytical Data Report

Table 1 (Page 1 of 2)
Summary of Soil Analytical Results
NC DOT - Parcel 132
Sylva, North Carolina
H&H Job No. ROW-809

Analytical Method						EPA 8015C (mg/kg)		VOCs (8260) (mg/kg)													
Contaminant of Concern						Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Acetone	n-Butylbenzene	sec-Butyl benzene	tert-Butyl benzene	2-Chlorotoluene	Ethylbenzene	n-Hexane	Isopropylbenzene	4-Isopropyl toluene	Naphthalene	n-Propylbenzene	1,2,4-trimethylbenzene	1,3,5-Trimethylbenzene	Xylene (Total)
Sample ID	Date Collected	Sample Area	Sample Depth (ft)	PID Reading (ppm)	Incident Phase																
T1-1	1/30/2025	UST	4	117.8	Closure	103	42,100	0.597	0.170 M	0.196 M	0.007 M	0.038	0.091 M	0.003 J	0.122	0.155 M	0.287	0.197 M	1.93 E	0.318 M	0.187
T1-2	1/30/2025	UST	4	512	Closure	<2.71	49.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NC DEQ Action Level (mg/kg)						50	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Soil-to-Water MSCC ⁽¹⁾						NE	NE	24	2.4	2.2	1.7	NE	8	NE	1.3	0.12	0.2	1.4	6.6	6.6	6
Residential MSCC ⁽¹⁾						NE	NE	14,000	782	1,560	1,560	NE	60.3	NE	1,560	1,560	5.5	1,560	156	156	3,120
Industrial/Commercial MSCC ⁽¹⁾						NE	NE	210,000	11,600	23,300	23,300	NE	297	NE	23,300	23,300	27	23,300	2,330	2,330	46,700

Notes:

1) NC Department of Environmental Quality (DEQ) Division of Waste Management (DWM) Underground Storage Tank (UST) Section Corrective Action Guidelines dated April 9, 2025.

MSCC = Maximum Soil Contaminant Concentration

Bold indicates concentration exceeds TPH Action Level or Soil-to-Water MSCCs.

Underline indicates concentration exceeds Residential MSCCs.

TPH = Total Petroleum Hydrocarbons; VPH = Volatile Petroleum Hydrocarbons; EPH = Extractable Petroleum Hydrocarbons; VOCs = Volatile Organic Compounds; SVOCs = Semi-VOCs, PID = Photolonization Detector; ft = feet; ppm = parts per million.

MADEP = Massachusetts Department of Environmental Protection

NA = Not analyzed; mg/kg = milligrams per kilogram; NE = Not established

J = Estimated concentration above the laboratory method detection limit and below the laboratory reporting limit.

M = Recovery outside QC limits in the associated continuing calibration verification (CCV). Results should be considered a minimum concentration.

E = Concentration above calibration range. Results should be considered an estimated concentration.

Table 1 (Page 2 of 2)
Summary of Soil Analytical Results
NC DOT - Parcel 132
Sylva, North Carolina
H&H Job No. ROW-809

Analytical Method						SVOCs (8270) (mg/kg)							MADEP EPH & VPH (mg/kg)							
Contaminant of Concern						Acenaphthene	Fluorene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	VPH C5-C8 Aliphatics	VPH C9-C12 Aliphatics	EPH C9-C18 Aliphatics	Total C9-C18 Aliphatics	EPH C19-C36 Aliphatics	VPH C9-C10 Aromatics	EPH C11-C22 Aromatics	Total C9-C22 Aromatics
Sample ID	Date Collected	Sample Area	Sample Depth (ft)	PID Reading (ppm)	Incident Phase															
T1-1	1/30/2025	UST	4	117.8	Closure	2.50	3.80	13.5	14.6	<u>8.51</u>	6.38	2.25	<8.77	785	3,300	4,085	1,590	274	369	643
T1-2	1/30/2025	UST	4	512	Closure	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NC DEQ Action Level (mg/kg)						NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Soil-to-Water MSCC ⁽¹⁾						8.3	55	0.054	1.5	0.2	64	210	68	NE	NE	540	>100%	NE	NE	31
Residential MSCC ⁽¹⁾						930	625	22.8	62.5	5.5	469	469	625	NE	NE	1,560	31,200	NE	NE	469
Industrial/Commercial MSCC ⁽¹⁾						14,000	9,340	112	934	27	7,000	7,000	9,340	NE	NE	23,300	467,000	NE	NE	7,000

Notes:

1) NC Department of Environmental Quality (DEQ) Division of Waste Management (DWM) Underground Storage Tank (UST) Section Corrective Action Guidelines dated April 9, 2025.

MSCC = Maximum Soil Contaminant Concentration

Bold indicates concentration exceeds TPH Action Level or Soil-to-Water MSCCs.

Underline indicates concentration exceeds Residential MSCCs.

TPH = Total Petroleum Hydrocarbons; VPH = Volatile Petroleum Hydrocarbons; EPH = Extractable Petroleum Hydrocarbons; VOCs = Volatile Organic Compounds; SVOCs = Semi-VOCs, PID = Photolonization Detector; ft = feet; ppm = parts per million.

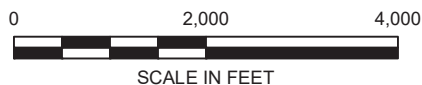
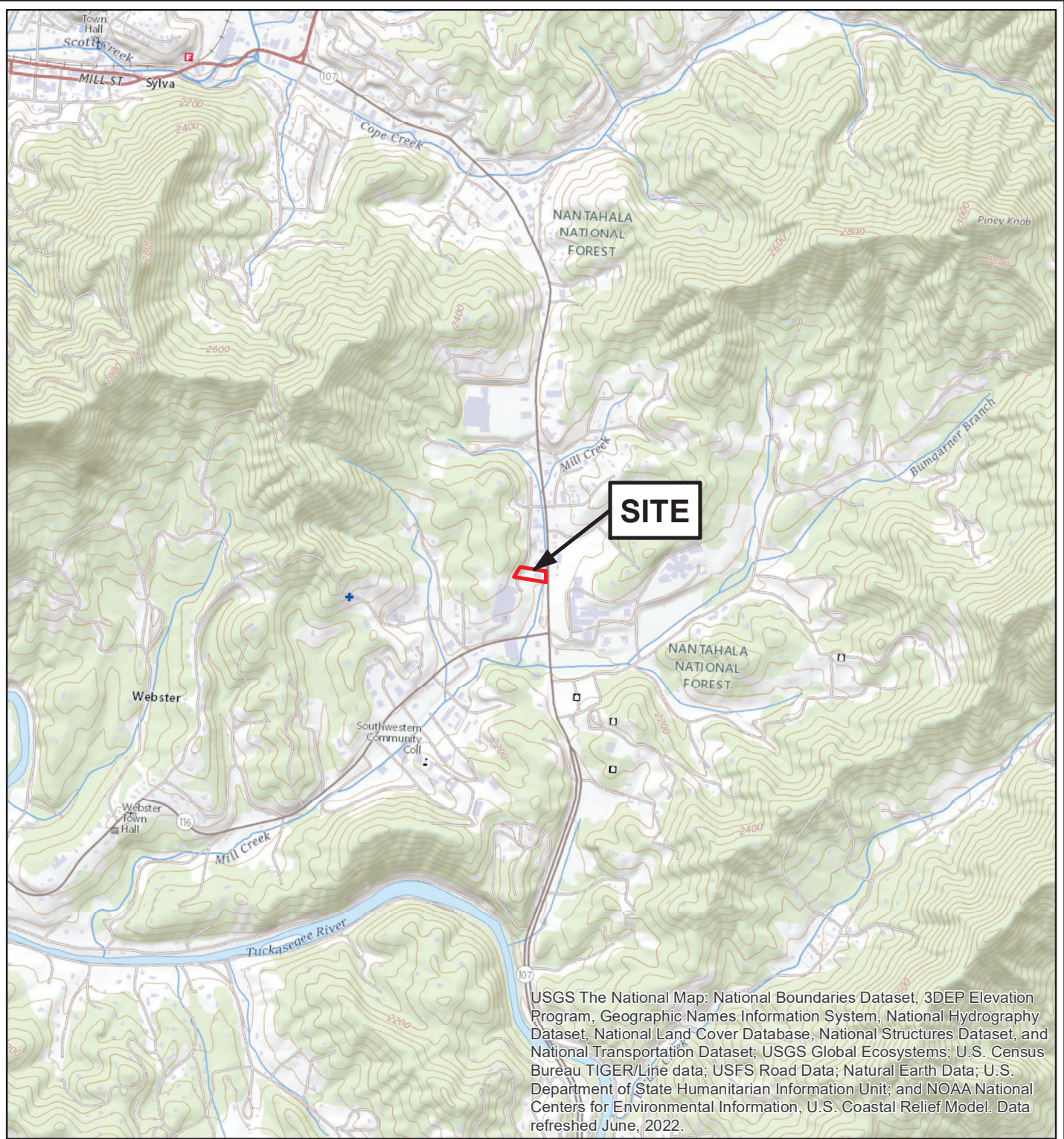
MADEP = Massachusetts Department of Environmental Protection

NA = Not analyzed; mg/kg = milligrams per kilogram; NE = Not established

J = Estimated concentration above the laboratory method detection limit and below the laboratory reporting limit.

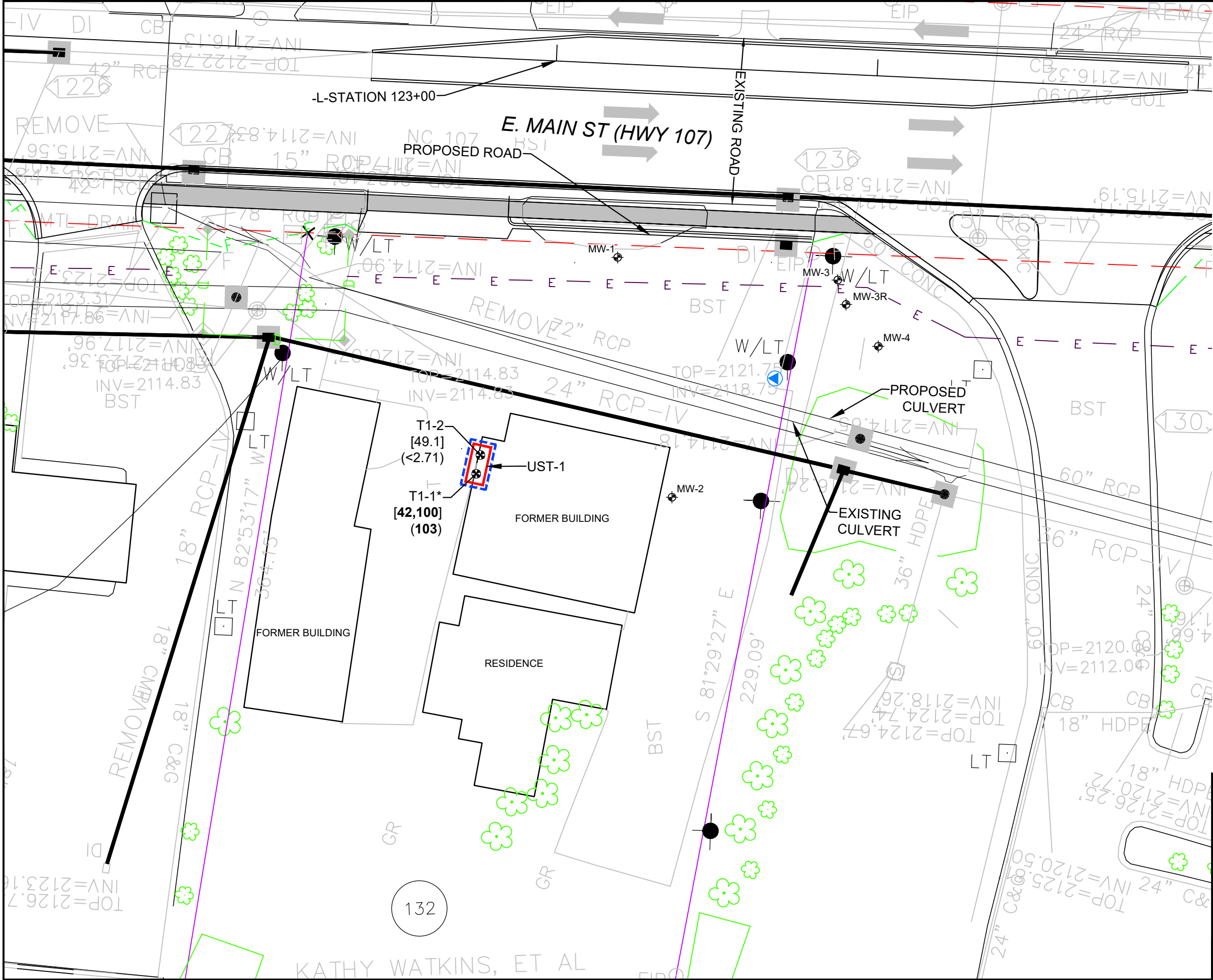
M = Recovery outside QC limits in the associated continuing calibration verification (CCV). Results should be considered a minimum concentration.

E = Concentration above calibration range. Results should be considered an estimated concentration.



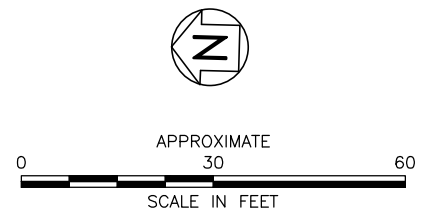
U.S.G.S. QUADRANGLE MAP
SYLVA SOUTH, NORTH CAROLINA 2022
 QUADRANGLE
 7.5 MINUTE SERIES (TOPOGRAPHIC)

TITLE SITE LOCATION MAP	
PROJECT NCDOT PARCEL 132 1668 E. MAIN ST SYLVA, NORTH CAROLINA	
 2923 South Tryon Street - Suite 100 Charlotte, North Carolina 28203 704-586-0007 (p) 704-586-0373 (f) License # C-1269 / # C-245 Geology	
DATE: 4-18-25	REVISION NO: 0
JOB NO: ROW-809	FIGURE NO: 1



- LEGEND**
- PROPERTY LINE
 - VEGETATION / WOODED
 - EXISTING RIGHT-OF-WAY
 - PROPOSED RIGHT-OF-WAY
 - PROPOSED FILL LINE
 - PROPOSED CONSTRUCTION EASEMENT
 - PROPOSED DRAINAGE EASEMENT
 - 132 NC DOT PARCEL ID
 - UTILITY POLE
 - WATER SUPPLY WELL
 - PROPOSED DRAINAGE PIPE
 - PROPOSED CATCH BASIN
 - PROPOSED SIDEWALK
 - MONITORING WELL
 - FORMER UST
 - APPROXIMATE EXTENT OF EXCAVATION AREA
 - UST CLOSURE SAMPLE LOCATION
 - [49.1] DIESEL RANGE TPH (mg/kg)
 - (<2.71) GASOLINE RANGE TPH (mg/kg)

- NOTE:**
- BOLD VALUES** EXCEED NCDEQ ACTION LEVELS.
 - TPH = TOTAL PETROLEUM HYDROCARBONS.
UST = UNDERGROUND STORAGE TANK
 - * = RISK BASED COMPOUNDS DETECTED ABOVE MSCCs,
(SEE TABLE 1).



TITLE SITE MAP AND SOIL ANALYTICAL RESULTS	
PROJECT NC DOT PARCEL 132 1668 E. MAIN STREET SYLVA, JACKSON COUNTY, NORTH CAROLINA	
hart hickman 2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 704-586-0007 main License # C-1269 / #C-245 Geology	
DATE:4-24-25	REVISION NO. 0
JOB NO. ROW-809	FIGURE NO. 2

Appendix A
ESP Associates, Inc. Monitoring Report



MONITORING REPORT

RAY'S GROCERY (INCIDENT NO. 5325)
1674 EAST MAIN STREET
SYLVA, JACKSON COUNTY, NORTH CAROLINA
ESP Project No. 23-00200-128

Prepared For:

North Carolina Department of Environmental Quality
Division of Waste Management
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

Prepared By:

ESP Associates, Inc.
P. O. Box 7030
Charlotte, North Carolina 28241

February 27, 2025



February 27, 2025

Ms. Sharon Ghiold
North Carolina Department of Environmental Quality
Division of Waste Management
1646 Mail Service Center
Raleigh, North Carolina 27699-1646
Email: sharon.ghiold@deq.nc.gov

Reference: **MONITORING REPORT**
Ray's Grocery (Incident #5325)
1674 East Main Street
Sylva, Jackson County, North Carolina
ESP Project No. 23-00200-128

Dear Ms. Ghiold:

ESP Associates, Inc. (ESP) is pleased to present this Monitoring Report documenting activities performed at Ray's Grocery located at 1674 East Main Street in Sylva, North Carolina (Site). The activities described herein were conducted in accordance with North Carolina Department of Environmental Quality (NCDEQ), Task Authorization No. 3, Change Order No. 2, approved on January 23, 2025.

We appreciate the opportunity to provide environmental services on this project. If you have any questions, please do not hesitate to contact us at (704) 583-4949.

Sincerely,

ESP Associates, Inc.

A handwritten signature in blue ink that reads "Matt Craig".

Matthew R. Craig
Project Manager

A handwritten signature in blue ink that reads "K. Howell".

Kevin J. Howell, PG
Project Geologist

Attachment - Monitoring Report

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SITE INFORMATION

Date of Report: February 27, 2025
NCDEQ Incident No: 5325
NCDEQ UST No.: AS-307
Site Name: Ray's Grocery
Site Location: 1674 East Main Street
Sylva, Jackson County, NC 28779

Latitude: N 35.35515
Longitude: W 83.20118

UST Owner/ Operator: Iredell Leasing Co, Inc / Ray Coward (deceased)
Buffalo Shoals Road, PO Box 557
Statesville, North Carolina 28687

Current Property Owner: Kathy Etal Watkins and Stephen Coward
PO Box 313
Webster, North Carolina 28788
(828) 508-4364

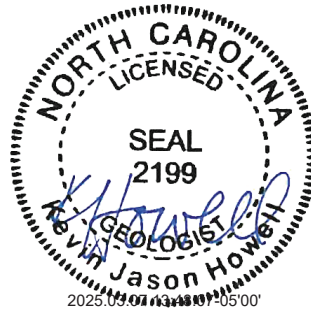
Current Property Occupant: N/A - Vacant

Consultant: ESP Associates, Inc.
P.O. Box 7030
Charlotte, NC 28241
(704) 583-4949

Laboratory: Pace Analytical Services, LLC
NCDEQ No. 5342
9800 Kincey Avenue
Huntersville, NC 28028
(704) 875-9092

Release Information: Release Discovery Date: November 15, 1989
Estimate Quantity: Unknown
Source of Release: Underground Storage Tank (UST) System
comprising four 4,000-gallon gasoline USTs
Cause of Release: Leak of USTs
Currently Active Tanks: None; one tank removed in 1991 and
remaining three tanks removed in 1994

I, Kevin J. Howell, a Professional Geologist for ESP Associates, Inc., do certify that the information contained in this report is correct and accurate to the best of my knowledge.



ESP Associates, Inc. is licensed to practice both geology and engineering in North Carolina. ESP Associates, Inc.'s certification numbers are: Geology: C-556 / Engineering: F-1407.

EXECUTIVE SUMMARY

This executive summary section provides an abbreviated reporting of our Site observations and findings. Refer to the main text and appendices for a complete reporting of our observations and findings.

ESP has completed a Monitoring Report documenting assessment activity performed at the Ray's Grocery Site (Incident No. 5325). The Site is an approximate 1.20-acre developed commercial parcel (Tax Parcel No. 7641-70-5711) located at 1674 East Main Street in Sylva, Jackson County, North Carolina. This report was completed to summarize the findings of assessment activities performed on January 29, 2025, in accordance with NCDEQ, Task Authorization No. 4, Change Order No. 2 approved on January 23, 2025.

The work was performed as part of the State Lead Contract #N70522-D between NCDEQ and ESP. This report was prepared in general accordance with the 15A NCAC 2L .0115 regulations and the NCDEQ UST Section Guidelines for Assessment and Corrective Action for UST Releases, January 2021, under the supervision of Kevin J. Howell, North Carolina registered professional geologist (North Carolina License No. 2199).

On January 29, 2025, ESP performed the following field activities:

- Gauged static water levels in monitoring wells MW-1, MW-2, MW-3, MW-3R, and MW-4.
- Collected groundwater samples from monitoring wells MW-1, MW-2, MW-3, MW-3R, and MW-4.
- Although planned, a sample was not collected from WSW-1 as the well and associated building faucets were not accessible during the sampling event.

Collected water samples were analyzed for volatile organic compounds (VOCs) for comparison to both North Carolina Groundwater Quality Standards 15A NCAC 2L .0202 (2L Standards), Gross Contaminant Levels (GCLs), and 10 times (x) the North Carolina Surface Water Quality Standards 15A NCAC 2B .0202 (10 x 2B Standards).

Based on results of the above field activities and previous reporting, ESP concludes the following:

- The North Carolina Department of Transportation (NCDOT) is currently demolishing on-Site buildings in preparation for a road expansion project.
- Six apparent private water supply wells (WSW-1, WSW-5, WSW-5a, WSW-6) are identified as being down/cross-gradient and within 1,000-feet (ft) of the Site.
- Municipal water services is available to the area; however, the Site is reportedly not connected to municipal water.
- The closest surface water feature is Mill Creek, which runs along the sites eastern boundary along main street.
- The general direction of groundwater flow beneath the Site is expected to be to the south-southwest based on topography and local surface water flow direction.
- Static water level depths ranged from 4.43 to 4.80 ft below top of casing (bTOC).

- Free product was not observed in any of the gauged monitoring wells.
- GCLs were not exceeded in any of the sampled monitoring wells.
- MW-1 – Analytes were not detected above their respective 2L Standards.
- MW-2 – Analytes were not detected above 2L Standards.
- MW-3 – Benzene, ethylbenzene, naphthalene, n-propylbenzene, and 1,2,4-trimethylbenzene (1,2,4-TMB) were detected above their respective 2L Standards.
- MW-3R – Benzene was detected above the 2L Standard.
- MW-4 – Analytes were not detected above laboratory Method Detection Limits (MDLs).

The general trend in groundwater contamination concentrations at the Site has been stable to decreasing. Analyte concentrations remain below 2L Standards across the well network, with the exception of multiple analytes in MW-3, and benzene in MW-3R.

Based on the above conclusions, ESP offers the following recommendations:

- Conduct a groundwater sampling event prior to the NCDOT road widening project.
- Since the residential building will remain on-Site, abandon WSW-1, and connect the residential building to the municipal water system.

1.0 INTRODUCTION

1.1 Site Setting

The Ray's Grocery Site is an approximate 1.20-acre developed commercial parcel (Tax Parcel No. 7641-70-5711) located at 1674 East Main Street in Sylva, Jackson County, North Carolina (**Figure 1**). The Site includes an approximate 2,750 square foot (sqft) commercial building, a 2,200-sqft commercial building, and a 1,432-sqft single-family residential building built between 1972 and 1980. The on-Site commercial structures are currently being demolished by NCDOT as part of a road expansion project. The Site is bound to the north by United Community Bank, to the east by East Main Street, with Smokey Mountain High School beyond, to the west by undeveloped woods, and to the south by Lowes Home Improvement Store.

1.2 Site Geology and Hydrogeology

The Site is located within the Blue Ridge Belt of the Blue Ridge Physiographic Province. The Blue Ridge Physiographic Province generally consists of mountain peaks ranging between 5,000 and 6,000 ft in elevation. Steep mountain peaks and trench-like valleys generally trend northeast to southwest. Underlying bedrock in the Site area comprises Middle-Late Proterozoic-Aged migmatitic biotite gneiss interlayered with amphibolite (ZYbn).

In-place chemical and physical weathering of parent rocks typically form residual soils in the Blue Ridge Physiographic Province. Weathering is facilitated by the presence of fractures, joints, and less resistant minerals in the rock. In areas not altered by erosion, alluvial deposition or anthropogenic activities, the typical residual soil profile consists of well drained soils with clayey and fine loamy subsoils with low to high mica content at the surface and at depth. Typically, the boundary between soil and rock is not sharply defined. This transitional zone is termed "partially weathered rock" or saprolite. Information obtained from the Web Soil Survey for Jackson County shows that soils at the Site comprise Braddock-Urban land complex, Evard-Cowee complex, and Udorthents-Urban land complex. These soil formations consist of clayey and gravelly loams.

According to soil descriptions made from soil sampling activities made by previous consultants, Site specific geologic materials comprise clay from the surface down to 5-ft followed by clay loam down to 15-ft below ground surface (bgs).

In the Blue Ridge, groundwater occurs in soil pore spaces and within natural rock structures (e.g., joints, fractures, and faults). Water tables (i.e., the top of subsurface saturated zone) are recharged by infiltration of meteoric water under the influence of gravity. Typically, the water table is not a level surface but generally follows surface topography. Depth to the water table varies with time and space and is dependent on several factors including precipitation amounts, porosity and permeability of subsurface materials, and groundwater pumping. Normally, the highest levels of the water table occur in late winter and spring and the lowest levels occur in the late summer and fall.

The direction and movement of groundwater generally depends on soil type, the presence of relict structures, and the textures of underlying rock. Fractures, faults, folds, and foliation planes affect the migration of groundwater in rock. No major geologic features (faults, etc.) are identified at or near the Site. Based on local topography and surface water flow direction, groundwater beneath the Site is expected to flow to the south-southwest.

1.3 Surface Water

Surface waters closest to the Site include segments of Mill Creek located approximately 70-ft to the south, 90-ft to the east adjacent and parallel to East Main Street, and 1,500-ft to the west. It should be noted that the mapped locations of these drainages adjacent and parallel to East Main Street are shown to be covered by impervious surfaces and are likely accommodated by ditches and/or storm drains (**Figures 1 and 5**). The Site occurs within the Little Tennessee River Basin.

1.4 Water Supply Wells

Based on a receptor survey previously conducted by previous consultants, fifteen apparent private water supply wells (WSW-1 through WSW-5, and WSW-5a through WSW-14) have been identified within 1,500-ft of the Site. Of them, six (WSW-1, WSW-5, WSW-5a, WSW-6) are identified as being down/cross-gradient and within 1,000-ft of the Site. Municipal water is available to the Site and surrounding areas; however, the Site and associated buildings are not connected.

2.0 SITE HISTORY

The following description of historical Site activities was obtained from a report titled “Groundwater Monitoring Report, Ray’s Grocery, 1674 East Main Street, Sylva, Jackson County, North Carolina 28779” dated August 14, 2023, by CES Group Engineers, LLP (CES).

- According to an NCDEQ Memo – Recommendation for State-Lead Cleanup, prepared by the Asheville Regional Office, and dated June 1, 2022, Incident Number 5325 occurred in 1989 when petroleum was observed in a tributary of Mill Creek/Bumgarner Branch, and with petroleum observed seeping from the embankment near an onsite 4,000-gallon gasoline UST into Mill Creek, which resulted in the further observation of soils on the embankment of Mill Creek to be saturated with petroleum, and the presence of a petroleum sheen on surface water. Upon discovery of the release, the UST was reportedly taken out of service, with remaining tank contents evacuated, and eventually was excavated and removed from the subsurface in 1991. The leaking UST was located near East Main Street and would have been in front of the modern-day Lowe’s sign adjacent to the Site. The remaining three 4,000-gallon gasoline USTs were reportedly located adjacent to the southeastern corner of the onsite building, with the dispenser island located along East Main Street, and were excavated and removed from the subsurface in 1994. The dispenser island was located along East Main Street. No further information regarding the removal of the four 4,000-gallon gasoline USTs, nor the completion of any remediation activities, is known to exist.
- In December 2022, as part of the work scope for the soil assessment phase, a water supply well survey was conducted by CES, by interviewing an occupant of the subject property, conducting a windshield survey, and sending out Request for Water Supply Well Information forms to property owners located within a 1,500-ft radius of the subject property. According to information obtained from the subject property occupant, nearby and surrounding property owners, and the Tuckasegee Water and Sewer Department, fourteen water supply wells are known to exist within a 1,500-ft radius.
- In January 2023, CES sampled a water supply well from the faucet within the bathroom of the on-Site Cross Fit Swerve building and was submitted to Waypoint Analytical, LLC (Waypoint) for analysis of VOCs. Water supply well analytical results showed all VOC concentrations below laboratory detection limits (BDLs).
- On June 21, 2023, CES installed permanent groundwater monitoring wells (MW-1 and MW-2) at the 1674 East Main Street property, in the area of the Former USTs – Rays property, and permanent groundwater monitoring wells (MW-3 and MW-4) at the 1716 East Main Street property, in the area of the Former UST – Lowe’s property. During the installation of MW-2 and MW-3, soil samples were collected immediately above the water table, as observed during field drilling operations, at a depth of approximately 8 to 9-ft bgs (MW-2) and 7 to 8-ft bgs (MW-3). During the groundwater monitoring and sampling event conducted on June 24, 2023, depth to groundwater was measured at approximately 5 to 6-ft across the Site from monitoring wells MW-1 through MW-4. Analytical results of the soil samples showed that various petroleum-related constituent concentrations exceeded their respective Soil to Water Maximum Soil Contamination Concentration (MSCCs) from the borings of MW-2 and MW-3. Additionally, soil analytical results from the boring of MW-3 showed that various petroleum-related constituent concentrations exceeded Residential Soil MSCCs.

- On June 24, 2023, CES collected groundwater samples from monitoring wells MW-1 through MW-4 in addition to one surface water sample from Mill Creek adjacent to the Site. Based on well construction records, it should be noted that the depths of well screens were observed to be submerged within the water table. Based on visual observations at the Site and surrounding area, groundwater flow direction is anticipated to flow in a south-southwesterly direction. Analytical results showed that various petroleum-related constituents exceeded their respective 2L Standards in samples collected from monitoring wells MW-1 through MW-4. The surface water sample did not detect any constituents above their respective BDLs.

The following is taken directly from observations and assessment activities conducted by ESP.

- On April 9, 2024, ESP personnel observed the set-up of the in-situ BOS200+ remediation injection event by subcontractors AST Environmental Inc. (AST) and South Atlantic Environmental Drilling and Construction Company (SAEDACCO). The injection event lasted from April 10 to April 24, 2024. Prior to the start of the injection event, ESP collected groundwater samples from monitoring wells MW-1 through MW-4. Laboratory analysis indicated various constituents exceeded their respective 2L and 2B Surface Water Standards in monitoring wells MW-2 through MW-4.
- On May 31, 2024, ESP mobilized to the Site to collect groundwater samples from monitoring wells MW-1, MW-2, MW-3, and MW-4. Laboratory analytical results indicated the presence of multiple analytes above 2L Standards in MW-3. Analyte concentration did not exceed 2L Standards in MW-1, MW-2, or MW-4.
- On June 28, 2024, ESP mobilized to the Site to collect groundwater samples from monitoring wells MW-1, MW-3, and MW-4. Although planned, ESP did not sample MW-2, as debris associated with the on-Site demolition work prevented access to the well. Laboratory analytical results indicated the presence of multiple analytes above 2L Standards in MW-3. Analyte concentration did not exceed 2L Standards in MW-1, or MW-4.

Historical groundwater elevations and analytical results are provided in **Appendix A**.

3.0 FIELD ACTIVITIES

On January 29, 2025, ESP performed the following field activities:

- Gauged static water levels in monitoring wells MW-1, MW-2, MW-3, MW-3R, and MW-4.
- Collected groundwater samples from monitoring wells MW-1, MW-2, MW-3, MW-3R, and MW-4.
- Although planned, a sample was not collected from WSW-1 as the well and associated building faucets were not accessible during the sampling event.

Sample locations are depicted in **Figure 2**. Field logbook entries along with water level survey forms, groundwater sampling forms, field instrument calibration forms and Site photographs were completed in the field to document Site activities (**Appendix B**).

3.1 Water Level Gauging

On January 29, 2025, prior to purging or collecting groundwater samples, the depth to groundwater from the top of casing (TOC) within monitoring wells MW-1, MW-2, MW-3, MW-3R, and MW-4 was measured and recorded using a decontaminated electronic water level meter. The water level measurements were collected by first removing covers and plunger caps from the monitoring wells and allowing water within the wells to stabilize. The electronic water level meter probe was then lowered into the well and the depth to water measured relative to the well's TOC.

As noted on **Table 2**, static water level depths ranged from 4.43 to 4.80 ft bTOC. It should be noted that relative groundwater elevations could not be calculated since the top of casing elevations have not been determined for monitoring wells MW-1 through MW-4. According to observations made by previous consultants, local topography and surface water features, groundwater at the Site is estimated to flow toward the south-southwest.

3.2 Free Product Assessment

On January 29, 2025, free product was not observed in any of the gauged monitoring wells.

3.3 Monitoring Well Sampling

On January 29, 2025, groundwater samples were collected from monitoring wells MW-1, MW-2, MW-3, MW-3R, and MW-4. Groundwater samples were collected using dedicated and disposable polyvinyl chloride (PVC) bailers (1.5" x 3') attached to braided nylon rope. Prior to groundwater sample collection, each well was purged using the bailer. During purging, water quality parameters including pH, conductivity, temperature, and turbidity were measured using calibrated field water quality instruments. Readings were taken at the start of purging and periodically until a minimum of three well volumes were removed from the well. Following purging, a groundwater sample for laboratory analysis was collected from the well using the bailer. The water quality parameters were recorded on groundwater sampling forms along with time, water level depth, and cumulative volume of water purged (**Appendix B**).

Groundwater samples were collected following Guidelines for Sampling by the UST Section, Division of Waste Management, NCDEQ (NCDEQ, 2022). Groundwater samples were placed in laboratory-prepared vials preserved with hydrochloric acid (HCl), labeled, and stored on ice in a cooler for subsequent delivery under standard chain-of-custody (COC) procedures to Pace

Analytical (Pace), a North Carolina-certified laboratory, located in Huntersville, North Carolina, for analysis. The groundwater samples were analyzed for VOCs by Standard Method 6200B including methyl tert-butyl ether (MTBE), ethylene dibromide (EDB), and Diisopropyl Ether (IPE).

3.3 Field Quality Control Sampling and Analysis

On January 29, 2025, a laboratory prepared trip blank was submitted along with the groundwater samples and analyzed for VOCs by SM 6200B including MTBE, EDB, and IPE to assess for potential cross contamination during the shipment and storage process. As noted in **Table 3**, analysis of the trip blank sample reported that all analytes were below laboratory MDLs.

4.0 ANALYTICAL RESULTS

Results of the laboratory analysis of groundwater samples MW-1, MW-2, MW-3, MW-3R and MW-4 are tabulated in **Table 3**. As noted in **Table 3**, the analytical results are compared to 2L Standards, GCLs, and 10 x 2B Standards. The Pace laboratory analytical report is provided in **Appendix C**.

Analytes were not detected above their respective GCLs. Various analytes were detected at concentrations greater than their respective 2L Standards (**Table 3** and **Figure 3**). A summary of the analytical results is as follows:

- MW-1 – Analytes were not detected above their respective 2L Standards.
- MW-2 – Analytes were not detected above their respective 2L Standards.
- MW-3 – Benzene (174 micrograms per liter [$\mu\text{g/L}$]), ethylbenzene (882 $\mu\text{g/L}$), naphthalene (241 $\mu\text{g/L}$), n-propylbenzene (156 $\mu\text{g/L}$), and 1,2,4-TMB (421 $\mu\text{g/L}$) were detected above their respective 2L Standards.
- MW-3R – Benzene (2.7 $\mu\text{g/L}$) was detected above its 2L Standard.
- MW-4 – Analytes were not detected above their respective laboratory MDLs.

The general trend in groundwater contamination concentrations at the Site has been stable to decreasing. Analyte concentrations remain below 2L Standards across the well network, with the exception of multiple analytes in MW-3, and benzene in MW-3R.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on results of the above field activities and previous reporting, ESP concludes the following:

- The NCDOT is currently demolishing on-Site buildings in preparation for a road expansion project.
- Six apparent private water supply wells (WSW-1, WSW-5, WSW-5a, WSW-6) are identified as being down/cross-gradient and within 1,000- ft of the Site.
- Municipal water services is available to the area; however, the Site is reportedly not connected to municipal water.
- The closest surface water feature is Mill Creek, which runs along the sites eastern boundary along main street.
- The general direction of groundwater flow beneath the Site is expected to be to the south-southwest based on topography and local surface water flow direction.
- Static water level depths ranged from 4.43 to 4.80 ft bTOC.
- Free product was not observed in any of the gauged monitoring wells.
- GCLs were not exceeded in any of the sampled monitoring wells.
- MW-1 – Analytes were not detected above their respective 2L Standards.
- MW-2 – Analytes were not detected above 2L Standards.
- MW-3 – Benzene, ethylbenzene, naphthalene, n-propylbenzene, and 1,2,4-TMB were detected above their respective 2L Standards.
- MW-4 – Analytes were not detected above laboratory MDLs.

The general trend in groundwater contamination concentrations at the Site has been stable to decreasing. Analyte concentrations remain below 2L Standards across the well network, with the exception of multiple analytes in MW-3, and benzene in MW-3R.

Based on the above conclusions, ESP offers the following recommendations:

- Conduct a groundwater sampling event prior to the NCDOT road widening project.
- Since the residential building will remain on-Site, abandon WSW-1, and connect the residential building to the municipal water system.

6.0 REFERENCES

Jackson County, North Carolina Web GIS: <https://gis.jacksonnc.org/rpv/>

USDA Web Soil Survey: <https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>

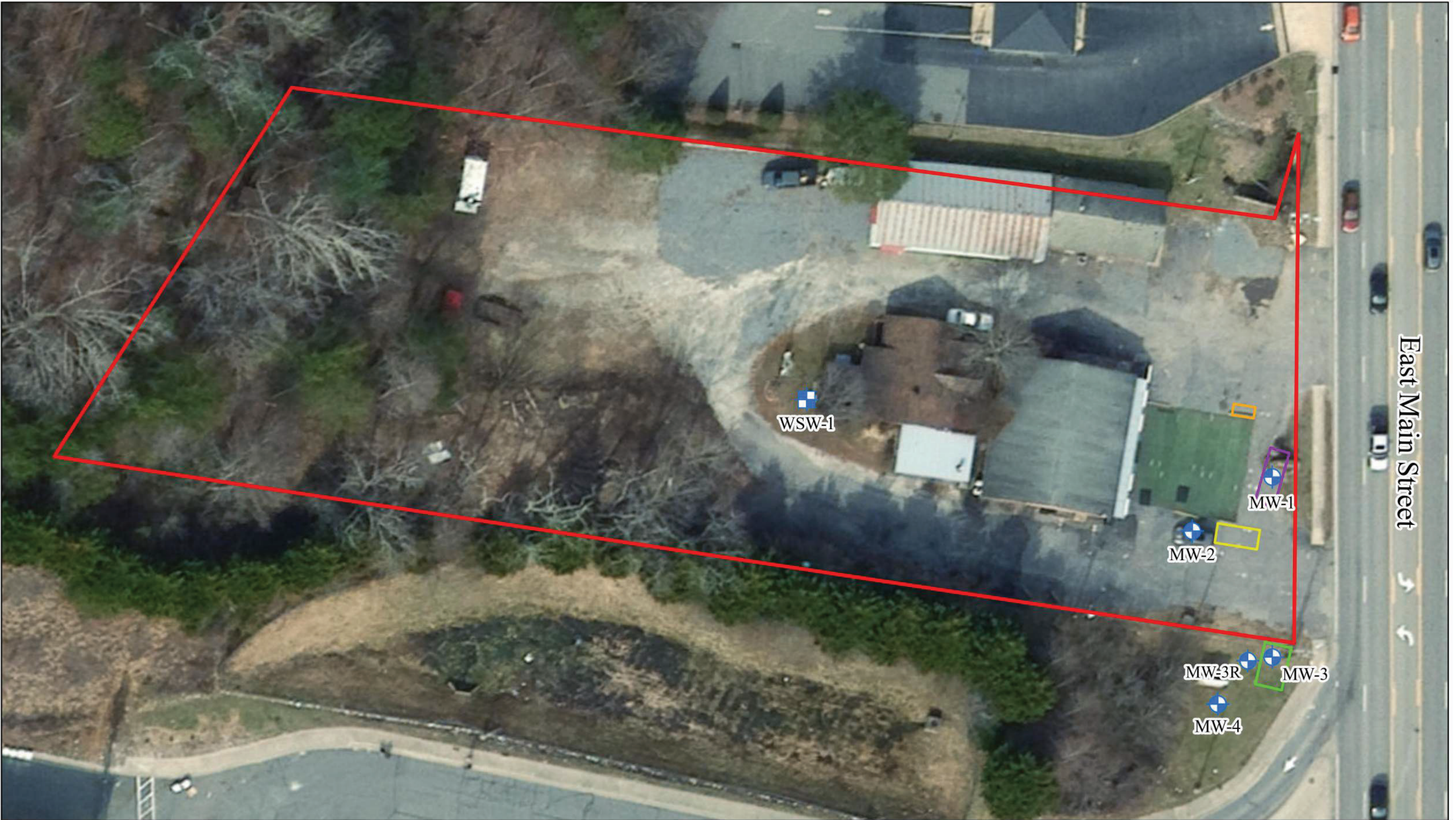
1985 Geologic Map of North Carolina, The North Carolina Geological Survey, Phillip M. Brown, 1985.

Guideline for Sampling Underground Storage Tank Section, Division of Waste Management, North Carolina Division of Environmental Quality, March 7, 2022, Change 4.

CES Group, August 04, 2023, Groundwater Monitoring Report: Ray's Grocery 1674 East Main Street, Sylva, Jackson County, North Carolina 28779, NCDEQ Incident No.: 5325

ESP Associates, June 13, 2024, Subsequent Monitoring Report, Ray's Grocery (Incident #5325), 1674 East Main Street, Sylva, Jackson County, North Carolina.

ESP Associates, August 1, 2024, Subsequent Monitoring Report, Ray's Grocery (Incident#5325) 1674 East Main Street, Sylva, Jackson County, North Carolina.



East Main Street

WSW-1

MW-1

MW-2

MW-3R

MW-3

MW-4

- LEGEND:
- Site Boundary
 - Water Supply Well
 - Former UST Basin
 - Kerosene UST
 - Former LUST Area
 - Former Pump Island
 - Monitoring Well

All locations are approximate.



DATE 1/29/2025

PROJECT NO.	23-00200-128
SCALE	As Shown
DRAWN BY	MD
CHECKED BY	CW

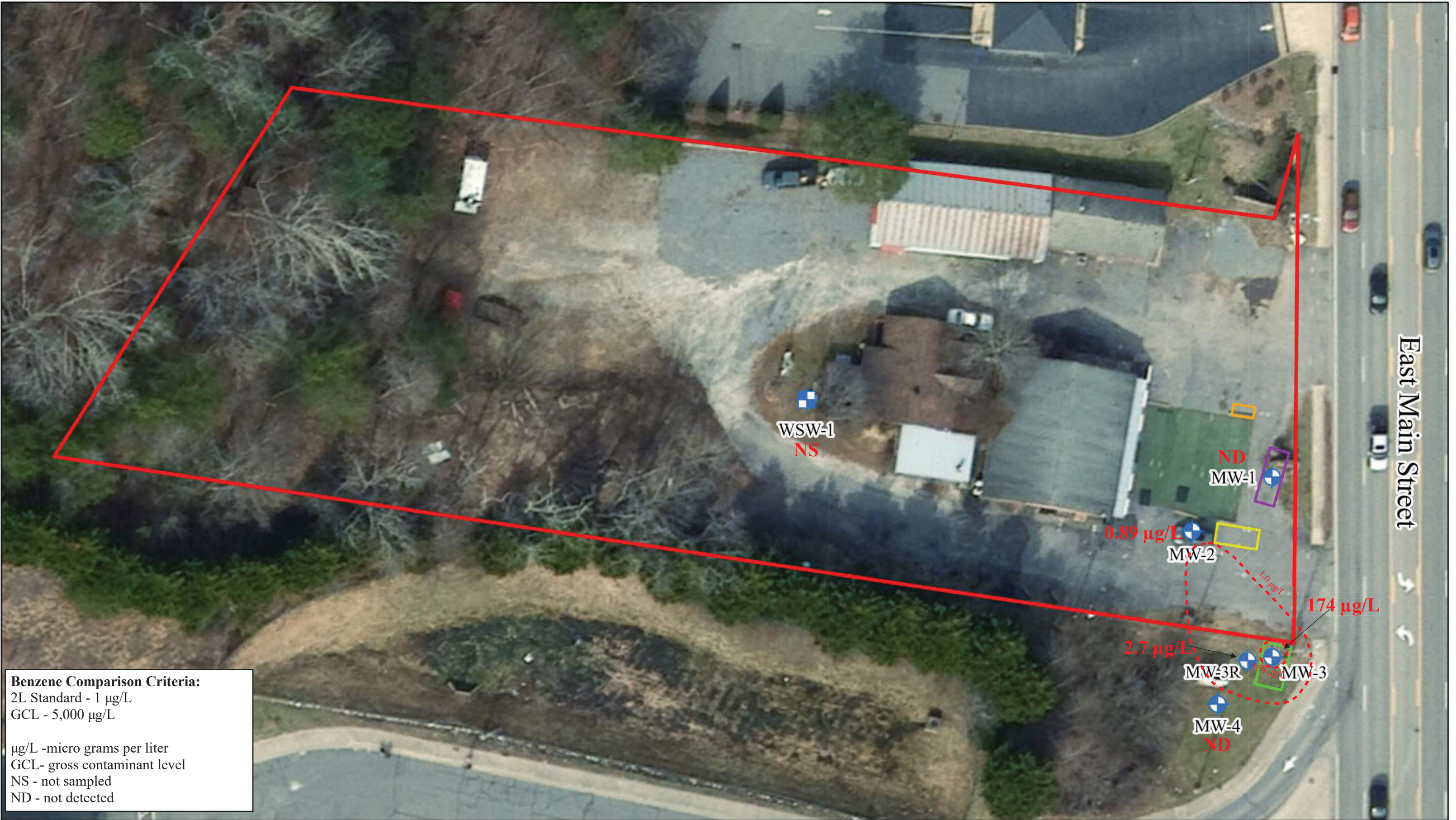
SHEET TITLE

FIGURE 2
SITE MAP
RAY'S GROCERY
1674 EAST MAIN STREET
SYLVA, NORTH CAROLINA
NCDEQ NO. 5325



ESP Associates, Inc.
P.O. Box 7030
Charlotte, NC 28241
Phone 704.583.4949
www.espassociates.com

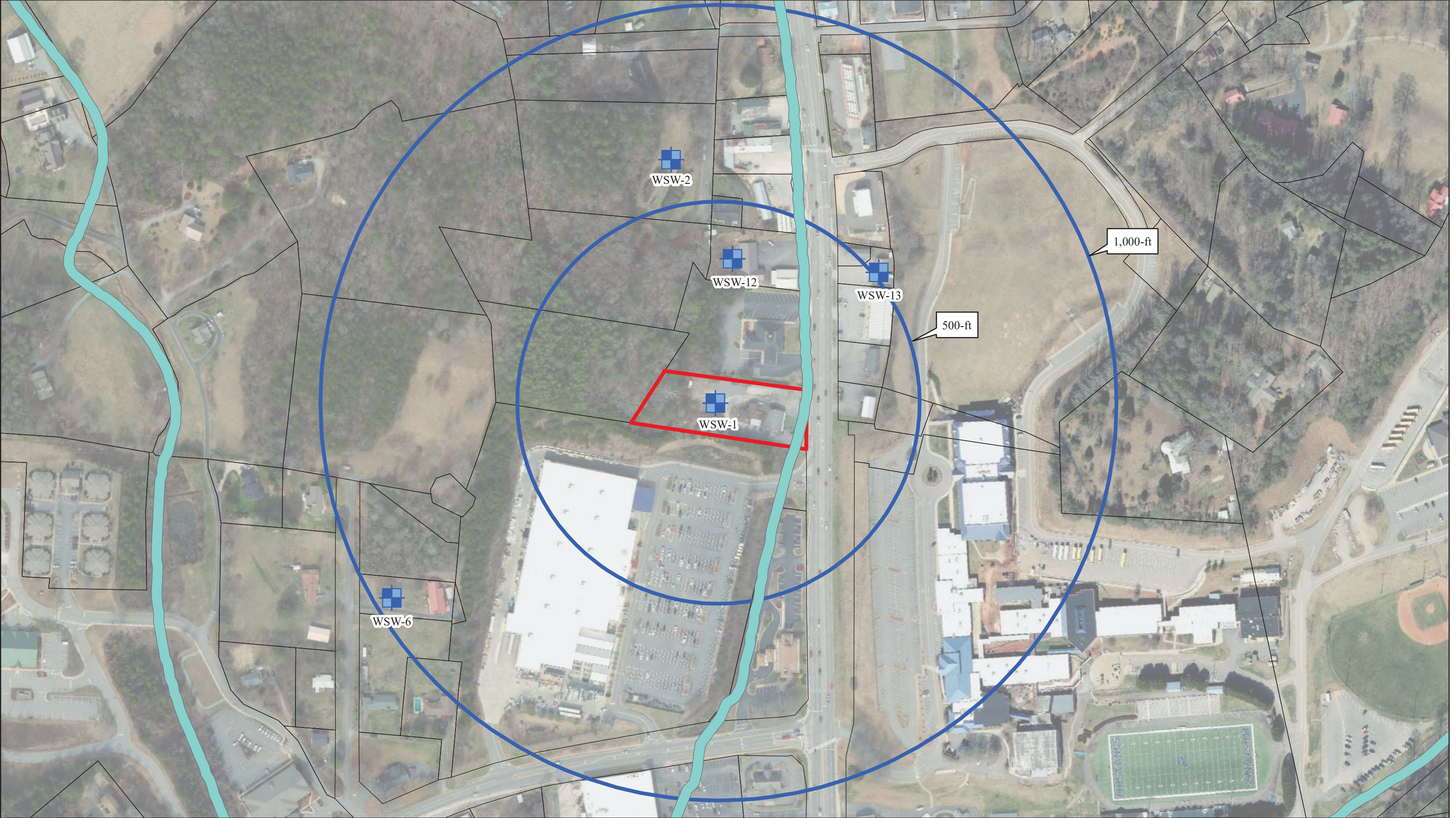




Benzene Comparison Criteria:
2L Standard - 1 µg/L
GCL - 5,000 µg/L

µg/L -micro grams per liter
GCL- gross contaminant level
NS - not sampled
ND - not detected

LEGEND: Site Boundary Former UST Basin Kerosene UST Former LUST Area Former Pump Island Monitoring Well Water Supply Well Isoconcentration Line		All locations are approximate.		PROJECT NO. 23-00200-128	SHEET TITLE FIGURE 4 BENZENE ISOCONCENTRATION MAP JANUARY 29, 2025
		01020 Feet W N E S		SCALE As Shown	
DATE 1/29/2025		DRAWN BY MD	CHECKED BY CW	PROJECT RAY'S GROCERY 1674 EAST MAIN STREET SYLVA, NORTH CAROLINA NCDEQ NO. 5325	ESP ESP Associates, Inc. P.O. Box 7030 Charlotte, NC 28241 Phone 704.583.4949 www.espassociates.com



LEGEND:

SITE BOUNDARY

WATER SUPPLY WELL

RIVERINE WETLAND

All locations are approximate.

0

110

220

Feet

N

W

E

S

PROJECT NO.	23-00200-128	SHEET TITLE	FIGURE 5 WATER SUPPLY WELL RADIUS MAP	
SCALE	As Shown			
DRAWN BY	ET	PROJECT		RAY'S GROCERY 1674 EAST MAIN STREET SYLVA, NC NCDEQ INCIDENT NO. 5325
DATE	7/30/2024			
CHECKED BY	CW			

ESP

ESP Associates, Inc.

P.O. Box 7030

Charlotte, NC 28241

Phone 704.583.4949

www.espassociates.com

Table 1
Water Supply Well Information
Ray's Grocery
Sylva, North Carolina
NCDEQ Incident No. 5325

Well No.	Property Owner	Mailing Address	Property Address	Approximate Distance from Source Area (ft)	Hydraulic Relationship to Source Area	Well Status/Use	Municipal Water Available	PIN
WSW-1	Kathy Etal Watkins & Stephen Coward 828-586-5644	PO Box 313 Webster, NC 28788	<i>Apparent Residence</i> 1676 East Main Street Sylva, NC 28779	~175	Crossgradient	Active/Potable Supplies 3 on-site buildings	Available but connection status unknown	7641-70-5711
			<i>Cross Fit Swerve (517-677-5668)</i> 1674 East Main Street Sylva, NC 28779	~175	Crossgradient		Available but connection status unknown	
			<i>Mountain Home and Lawn (828-508-0048)</i> 1668 East Main Street	~175	Crossgradient		Available but connection status unknown	
WSW-2	Gary Paul Frye 828-586-5644	37 Chaparral Drive Sylva, NC 28779	37 Chaparral Drive Sylva, NC 28779	~600	Upgradient	Active/Potable Supplies residence	Available but connection status unknown	7641-71-2363
WSW-3	Tom Wilson 828-269-3854	202 Meadow View Dr Sylva, NC 28779	57 Crestview Heights Sylva, NC 28779	~1400	Upgradient	Active / Non-Potable Used for toilets	Available but connection status unknown	7641-82-1010
WSW-4	Matthew C. and Holly A. Vaughan	73 Griffin Street Sylva, NC 28779	73 Griffin Street Sylva, NC 28779	~1285	Crossgradient	Active / Potable Supplies residence	Available but connection status unknown	7641-60-5058
WSW-5	Tom Massie 828-226-8572	87 Cliffside Drive Sylva, NC 28779	211 Cliffside Drive Sylva, NC 28779	~1025	Crossgradient	Active / Potable Supplies residence	Available but connection status unknown	7640-89-3919
WSW-5a				~1025	Crossgradient	Active / Potable Supplies residence	Available but connection status unknown	

Table 1
Water Supply Well Information
Ray's Grocery
Sylva, North Carolina
NCDEQ Incident No. 5325

Well No.	Property Owner	Mailing Address	Property Address	Approximate Distance from Source Area (ft)	Hydraulic Relationship to Source Area	Well Status/Use	Municipal Water Available	PIN
WSW-6	Jim Evans 828-586-4335	112 Griffin Street Sylva, NC 28779	112 Griffin Street Sylva, NC 28779	~930	Crossgradient	Active / Potable Supplies residence	Available but connection status unknown	7641-60-7202
WSW-7	Charles Wolfe 828-586-9005	178 Webster Road Sylva, NC 28779	159 Griffin Street Sylva, NC 28779	~1140	Crossgradient	Active / Potable Supplies 2 residences (incl 180 Nanny's Lane)	Available but connection status unknown	7641-60-4418
WSW-8	Charles Wolfe 828-586-9005	178 Webster Road Sylva, NC 28779	178 Webster Road Sylva, NC 28779	~1100	Crossgradient/Upgr adient	Active / Potable Supplies residence	Available but connection status unknown	7640-69-7976
WSW-9	Charles Wolfe 828-586-9005	178 Webster Road Sylva, NC 28779	180 Webster Road Sylva, NC 28779	~1295	Crossgradient/Down gradient	Active / Potable Supplies commercial building	Available but connection status unknown	7640-69-7720
WSW-10	Sam and Nancy Cogdill 828-507-4187	251 Chaparral Drive Sylva, NC 28779	251 Chaparral Drive Sylva, NC 28779	~1270	Upgradient	Active / Potable Supplies 5 residences (incl 34, 36, 185 and 270 Chaparral Drive)	Available but connection status unknown	7641-72-3251
WSW-11	Kenneth C. Beck	282 Nanny's Lane Sylva, NC 28779	282 Nanny's Lane Sylva, NC 28779	~1435	Crossgradient	Active / Potable Supplies residence	Available but connection status unknown	7641-61-7237
WSW-12	Bruce Green 828-421-2902	310 Rocky Knob Road Waynesville, NC 28786	1594 East Main Street Sylva, NC 28779	~375	Upgradient	Active / Potable Supplies 2 commercial buildings	Available but connection status unknown	7641-71-6009
WSW-13	Jackson County Farm Bureau	1627 East Main Street Sylva, NC 28779	1609 East Main Street Sylva, NC 28779	~485	Upgradient	Active / Potable Supplies 2 commercial buildings	Available but connection status unknown	7641-71-9161
WSW-14	Scott and Angela Connor	PO Box 456 Dillsboro, NC 28725	52 Mountain Oaks Lane Sylva, NC 28779	~1405	Crossgradient	Active / Potable Supplies residence	Available but connection status unknown	7640-69-3979

Table 2
Monitoring Well Construction and Groundwater Elevation Data
Ray's Grocery
Sylva, North Carolina
NCDEQ Incident No. 5325

Well ID	Date Installed	Screened Interval (ft BGS)	Bottom of Well (ft BGS)	Top of Casing Elevation (ft)	Date Water Level Measured	Depth to Water from Top of Casing (ft bTOC)	Groundwater Elevation (ft)	Free Product Thickness (ft)
MW-1	6/21/2023	7.0-17.0	17.0	Unknown	6/24/2023	4.63	NA	-
					4/9/2024	4.53	NA	-
					5/31/2024	4.06	NA	-
					6/28/2024	4.94	NA	-
					1/29/2025	4.43	NA	-
MW-2	6/21/2023	7.0-17.0	17.0	Unknown	6/24/2023	5.64	NA	-
					4/9/2024	5.62	NA	-
					5/31/2024	4.93	NA	-
					6/28/2024	<i>Not Measured- Well Obstructed by Debris</i>		
					1/29/2025	4.48	NA	-
MW-3	6/21/2023	7.0-17.0	17.0	Unknown	6/24/2023	4.84	NA	-
					4/9/2024	4.60	NA	-
					5/31/2024	3.96	NA	-
					6/28/2024	4.58	NA	-
					1/29/2025	4.75	NA	-
MW-3R	Unknown	Unknown	13.2	Unknown	1/29/2025	4.50	NA	-
MW-4	6/21/2023	7.0-17.0	17.0	Unknown	6/24/2023	5.07	NA	-
					4/9/2024	5.40	NA	-
					5/31/2024	3.84	NA	-
					6/28/2024	4.94	NA	-
					1/29/2025	4.80	NA	-

Notes:

Screened intervals and bottom of well measurements are from previous consultant's report.

Top of casing elevations are based on sea level

-- no measurable free product

BGS - below ground surface

ft - feet

ft bTOC - feet below TOC

NM - not measured

TOC - top of casing

NA - not available

Table 3
Summary of Groundwater Analytical Results
Ray's Grocery
SITE CITY, North Carolina
NCDEQ Incident No. 5325
(Page 1 of 1)

Sample ID	Collection Date	Acetone	Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Chloroform	1,2-Dibromoethane (EDB)	1,1-Dichloroethane	1,1-Dichloroethane	Diisopropyl Ether (IPE)	Ethylbenzene	Isopropylbenzene (cumene)	Methylene Chloride	Methyl-tert-butyl Ether (MTBE)	4-Isopropyltoluene	4-Methyl-2-Pentanone (MIBK)	Naphthalene	n-Propylbenzene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes (Total)
2L Standard (µg/L)		6,000	1	70	70	70	70	0.02	6	350	70	600	70	5	20	26,000	70	6	70	600	400	400	500
2B Standards*10		20,000	510	39*	NE	NE	NE	0.2*	60	NE	200,000*	970*	2,500*	110,000	340,000*	3,200	28,000	120*	NE	110	3,900*	6,300*	6,700
GCL (µg/L)		6,000,000	5,000	5,900	8,800	14,750	70,000	50	6,000	350,000	70,000	80,000	30,500	5,000	20,000	260,000	70,000	6,000	26,100	260,000	28,500	24,100	50,000
MW-1	6/24/2023	7.65 J	BDL	4.07	1.85	NR	NR	NR	NR	NR	NR	8.61	4.15	NR	NR	0.633	0.87 J	9.78	13.1	BDL	19.4	BDL	3.36
	4/9/2024	NA	<0.079	<0.066	<0.085	<0.086	<0.069	<0.15	<0.056	<0.079	<0.072	0.41 J	<0.11	<1.9	<0.053	NA	NA	0.26 J	0.16 J	<0.090	0.31 J	<0.071	0.37 J
	4/10/24 - 4/24/24	BOS 200+ Injection Across the Site																					
	5/31/2024	NA	<0.079	<0.066	<0.085	<0.086	<0.069	<0.15	<0.056	<0.079	<0.072	<0.081	<0.11	<1.9	<0.053	NA	NA	<0.10	<0.10	<0.090	<0.031	<0.071	<0.094
	6/28/2024	NA	<0.079	<0.066	<0.085	<0.086	0.17J	<0.15	<0.056	<0.079	<0.072	<0.081	<0.11	<1.9	<0.053	NA	NA	<0.10	<0.10	<0.090	<0.031	<0.071	<0.094
MW-2	1/29/2025	NA	<0.079	<0.066	<0.085	<0.086	0.23 J	<0.15	<0.056	<0.079	<0.072	<0.081	<0.11	<1.9	<0.053	NA	NA	<0.10	<0.10	<0.090	<0.031	<0.071	<0.094
	6/24/2023	BDL	57.1	72.8	27.6 J	NR	NR	NR	NR	NR	NR	912	93.6	NR	NR	BDL	BDL	561	365	154	1,460	378	1,800
	4/9/2024	NA	51.3	<0.17	8.4	0.39 J	<0.17	<0.37	<0.14	<0.20	<0.18	334	30.0	5.5	3.6	NA	NA	424	81.8	14.2	47.7	11.6	97.9
	4/10/24 - 4/24/24	BOS 200+ Injection Across the Site																					
	5/31/2024	NA	0.29J	<0.066	<0.085	<0.086	<0.069	<0.15	<0.056	<0.079	<0.072	0.72	<0.11	<1.9	<0.053	NA	NA	<0.10	<0.10	<0.090	<0.031	<0.071	<0.094
MW-3	6/28/2024	Not Sampled - Covered by Debris																					
	1/29/2025	NA	0.89	<0.066	<0.085	<0.086	<0.069	<0.15	<0.056	<0.079	<0.072	6.1	<0.11	<1.9	<0.053	NA	NA	1.2 J	0.75	0.32 J	0.84	0.21 J	0.99 J
	6/24/2023	BDL	320	84.9	22.7 J	NR	NR	NR	NR	NR	NR	1,470	90.6	NR	NR	BDL	BDL	503	352	134	884	195	1,840
	4/9/2024	NA	121	<0.33	5.5	<0.43	<0.35	<0.74	<0.28	<0.39	<0.36	866	46.8	<9.4	<0.27	NA	NA	239	147	62.3	347	59.7	943
	4/10/24 - 4/24/24	BOS 200+ Injection Across the Site																					
MW-3R	5/31/2024	NA	183	22.1	<0.085	<0.086	<0.35	<0.74	<0.28	<0.39	<0.36	870	51.2	<9.4	<0.27	NA	NA	362	150	84.6	473	72.1	1,160
	6/28/2024	NA	204	21.1	<0.43	<0.43	<0.35	<0.74	<0.28	<0.39	<0.36	909	46.3	<9.4	<0.27	NA	NA	329	160	85.5	445	63.6	1,090
	1/29/2025	NA	174	<0.33	<0.43	<0.43	<0.35	<0.74	<0.28	<0.39	<0.36	882	49.1	<9.4	<0.27	NA	NA	241	156	15.3	421	69.9	285
	6/24/2023	BDL	2.7	<0.066	<0.085	<0.086	<0.069	<0.15	<0.056	<0.079	<0.072	1.3	<0.11	<1.9	0.80	NA	NA	<0.10	<0.10	<0.090	<0.031	<0.071	1.1
	4/9/2024	BDL	304	BDL	BDL	NR	NR	NR	NR	NR	NR	371	34.7 J	NR	NR	BDL	BDL	295	111	BDL	BDL	BDL	232
MW-4	4/10/24 - 4/24/24	BOS 200+ Injection Across the Site																					
	5/31/2024	NA	<0.079	<0.066	<0.085	<0.086	<0.069	<0.15	<0.056	<0.079	<0.072	<0.081	<0.11	<1.9	<0.053	NA	NA	<0.10	<0.10	<0.090	<0.031	<0.071	<0.094
	6/28/2024	NA	<0.079	<0.066	<0.085	<0.086	<0.069	<0.15	<0.056	<0.079	<0.072	<0.081	<0.11	<1.9	<0.053	NA	NA	<0.10	<0.10	<0.090	<0.031	<0.071	<0.094
	1/29/2025	NA	<0.079	<0.066	<0.085	<0.086	<0.069	<0.15	<0.056	<0.079	<0.072	<0.081	<0.11	<1.9	<0.053	NA	NA	<0.10	<0.10	<0.090	<0.031	<0.071	<0.094
	5/31/2024	NA	<0.079	<0.066	<0.085	<0.086	<0.069	<0.15	<0.056	<0.079	<0.072	<0.081	<0.11	<1.9	<0.053	NA	NA	<0.10	<0.10	<0.090	<0.031	<0.071	<0.094
Trip Blank	6/28/2024	NA	<0.079	<0.066	<0.085	<0.086	<0.069	<0.15	<0.056	<0.079	<0.072	<0.081	<0.11	<1.9	<0.053	NA	NA	<0.10	<0.10	<0.090	<0.031	<0.071	<0.094
	1/29/2025	NA	<0.079	<0.066	<0.085	<0.086	<0.069	<0.15	<0.056	<0.079	<0.072	<0.081	<0.11	<1.9	<0.053	NA	NA	<0.10	<0.10	<0.090	<0.031	<0.071	<0.094

Notes:
Bold values indicate constituent concentrations were greater than the 2L Standard.
Yellow highlighted values indicate constituent concentrations were greater than the GCL.
 All results reported in µg/L.
 <# - less than the method detection limit
 µg/L - micrograms per liter
 2L Standard - North Carolina 02L standard for groundwater
 BDL - below method detection limit
 GCL - Gross Contaminant Level
 J - Estimated concentration above the method detection limit and below the reporting limit.
 NA - not analyzed
 ND - not detected
 NR - not reported

Table B-1: Site History – UST/AST System and Other Release InformationRevision Date: 07/31/2023 Incident Number and Name: 5325; Ray's Grocery UST ID#: AS-307

UST ID Number	Current/Last Contents	Previous Contents	Capacity (in gallons)	Construction Details	Tank Dimensions (diameter x length)	Description of Associated Piping and Pumps	Date Tank Installed	Status of UST	Was release associated with the UST System?
1	Gasoline	Gasoline	4,000	Presumed Single-Wall Steel	24' x 64"	Single-Wall Steel	8/19/1974	Permanent Closure / Removed (1991)	12/22/1989 release discovered from UST-1
2	Gasoline	Gasoline	4,000	Presumed Single-Wall Steel	24' x 64"	Single-Wall Steel	8/19/1974	Permanent Closure / Removed (1994)	None Reported
3	Gasoline	Gasoline	4,000	Presumed Single-Wall Steel	24' x 64"	Single-Wall Steel	8/19/1974	Permanent Closure / Removed (1994)	None Reported
4	Gasoline	Gasoline	4,000	Presumed Single-Wall Steel	24' x 64"	Single-Wall Steel	8/19/1974	Permanent Closure / Removed (1994)	None Reported
5	Presumed Kerosene	Presumed Kerosene	Unknown	Unknown	Unknown	Unknown	Unknown	Active	No

**Table B-2: Site History - UST/AST Owner/Operator and
Other Responsible Party Information**

Revision Date: 07/31/2023 Incident Number and Name: 5325; Ray's Grocery

UST ID#: AS-307

UST ID Number	1	Facility ID Number	00-0-0000021894
	2		
	3		
	4		
	5		
Name of Owner		Dates of Operation (mm/dd/yy to mm/dd/yy)	
Mr. Gene Davis (Iredell Leasing Co, Inc) / Mr. Ray Coward		08/19/1974 to 1991 (UST #1 through UST #4) / 1991 through 1994 (UST #2 through UST #4)	
Street Address			
Buffalo Shoals Road / 476 East Main Street			
City	State	Zip	Telephone Number
Statesville / Sylva	NC	28687 / 28779	704-872-5577 / Unknown
Name of Operator		Dates of Operation (mm/dd/yy to mm/dd/yy)	
Mr. Gene Davis (Iredell Leasing Co, Inc) / Mr. Ray Coward		08/19/1974 to 1991 (UST #1 through UST #4) / 1991 through 1994 (UST #2 through UST #4)	
Street Address			
Buffalo Shoals Road / 476 East Main Street			
City	State	Zip	Telephone Number
Statesville / Sylva	NC	28687 / 28779	704-872-5577 / Unknown
Incident Number	5325		
Name of Other Responsible Party		Dates of Release(s) (mm/dd/yy to mm/dd/yy)	
Street Address			
City	State	Zip	Telephone Number

Table B-3: Summary of Soil Analytical Results
Revision Date: 07/28/2023 Incident No.: Name 5325: Ray's Grocery UST ID#: AS-307

Analytical Method (e.g., VOCs by 8260D) →					UVF	UVF	8260D	8260D	8260D	8260D	8260D	8260D	8260D	8260D	8260D	8260D	8260D	8260D	8260D	8270E	8270E	8270E	MADEP-EPH	MADEP-EPH	MADEP-EPH	MADEP-VPH	MADEP-VPH	MADEP-VPH
Contaminant of Concern (mg/kg) →					TPH-GRO	TPH-DRO	Benzene	n-Butylbenzene	sec-Butylbenzene	Ethylbenzene	n-Hexane	Isopropylbenzene	4-Isopropyl toluene	Naphthalene	n-Propylbenzene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes	1-Methyl/naphthalene	2-Methyl/naphthalene	Naphthalene	C9-C18 Aliphatic	C11-C22 Aromatic	C19-C36 Aliphatic	C5-C8 Aliphatic	C9-C12 Aliphatic	C9-C10 Aromatics
Sample ID	Date Collected (m/dd/yy)	Source Area (eg. Tank Grave)	Sample Depth (feet)	PID (ppmv)																								
SB-6	1/10/23	Lowe's (Fmr UST)	8'	974.1	429.9	766.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SB-7	1/10/23	Lowe's (Fmr UST)	9'	1104.0	449.2	52.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SB-9	1/11/23	Ray's Grocery (Fmr USTs)	9'	883.4	108.1	99.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SB-12	1/11/23	Ray's Grocery (Fmr USTs)	10'	885.7	164.1	7.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
MW-2	6/21/23	Ray's Grocery (Fmr USTs)	8-9'	N/A	N/A	N/A	BDL	BDL	BDL	BDL	0.004 J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.393 J	0.611 J	0.262 J	15.7 J	BDL	21.6 J	BDL	BDL	
MW-3	6/21/23	Lowe's (Fmr UST)	7-8'	N/A	N/A	N/A	0.948 J	6.43	2.11	46.1	55.4	5.09	1.09 J	15.2	22.3	2.29	101	29.7	122	2.85	6.23	6.93	217	212	BDL	2640	1420	849
Initial Action Levels for Contamination (mg/kg)					100	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Soil-to-Water Maximum Contaminant Concentration (mg/kg)					0.0072	0.0072	0.0072	2.4	2.2	8	N/A	1.3	0.12	0.2	1.4	5.4	6.6	6.6	6	0.054	1.5	0.2	540	N/A	N/A	68	540	31
Residential Soil Cleanup Levels (mg/kg)					12	12	12	782	1560	60.3	N/A	1560	1560	5.5	1560	1250	156	156	3120	22.8	62.5	5.5	1560	N/A	31000	625	1500	469
Industrial/Commercial MSCC (mg/kg)					59.4	59.4	59.4	11600	23300	297	N/A	23300	23300	27	23300	18600	2330	2330	46700	112	934	27	23300	N/A	810000	9340	40000	12264

Feet BGS = feet below ground surface

mg/kg =milligrams per kilogram

ppmv: parts per million per volume as detected by MiniRAE2000 photoionization detector (PID)

BDL = Below Laboratory Detection Limit

NA = Not applicable

Highlighted Yellow **Bold** = Values exceeding the Initial Action Level for Conatmination and/or Soil-to-Water Soil Standard

Highlighted Green **Bold** = Values exceeding the Residential Soil Cleanup Standard

Highlighted Red **Bold** = Values exceeding Soil-to-Water, Residential and Industrial Commercial Standards

Concentrations compared to Table - 1, Rev 10/5/2021, Site Checks, Tank Closure, and Initial Response and Abatement (same as current version of Table 1 - Assessment and Corrective Action for UST Releases)

Table B-4: Summary of Groundwater and Surface Water Analytical Results
Revision Date: 07/09/2023 Incident Number and Name: Incident No. 5325; Ray's Grocery UST ID#: AS-307

Analytical Method (e.g., VOCs by EPA 6200B) →			6010D	6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B	MADEP VPH	MADEP VPH	MADEP VPH
Contaminant of Concern (mg/kg) →			Lead	Benzene	Acetone	n-Butylbenzene	sec-Butyl benzene	Ethylbenzene	Isopropyl benzene	4-Isopropyl toluene	4-Methyl 2-Pentanone (MIBK)	Naphthalene	n-Propyl benzene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylene (Total)	C5-C8 Aliphatic	C9-C12 Aliphatic	C9-C10 Aromatic
Sample ID	Date Collected (m/dd/yy)	Incident Phase																		
MW-1	6/24/23	MRP	5 J	BDL	7.65 J	4.07	1.85	8.61	4.15	0.633	0.870 J	9.78	13.1	BDL	19.4	BDL	3.36	N/A	N/A	N/A
MW-2	6/24/23	MRP	78	57.1	BDL	72.8	27.6 J	912	93.6	BDL	BDL	561	365	154	1460	378	1800	23000	10500	7610
MW-3	6/24/23	MRP	4 J	320	BDL	84.9	22.7 J	1470	90.6	BDL	BDL	503	352	134	884	195	1840	26000	11100	5860
MW-4	6/24/23	MRP	2 J	304	BDL	BDL	BDL	371	34.7 J	BDL	BDL	295	111	BDL	BDL	BDL	232	N/A	N/A	N/A
SW-1	6/24/23	MRP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A	N/A	N/A
2L Standard (ug/L) (Effective 4/1/2022)			15	1	6000	70	70	600	70	25	100	6	70	600	400	400	500	400	700	200
GCL (ug/L) (Table 2 - Revised 10/8/2020)			15000	5000	6000000	5900	8800	80000	30500	11700	100000	6000	26100	260000	28500	24100	50000	NA	NA	NA
Freshwater Class C Surface Water In Stream Target Values for Surface Waters (Effective 9/1/2022)			N/A	N/A	2000	3.9	N/A	97	250	320	26000	12	80	N/A	390	630	600	125	180	N/A
Freshwater Class C Surface Water In Stream Target Values for Surface Waters (10x 2B) (Effective 9/1/2022)			N/A	N/A	20000	390	N/A	970	2500	3200	260000	120	800	N/A	3900	6300	6000	1250	1800	N/A

GCL = Gross Contamination Level

BDL = Below Laboratory Detection Limit

NA = Not Applicable

J = Detected but below the Reporting Limit; therefore, result is an estimated concentration

Concentrations in **BOLD and Highlighted Yellow** reported above 2L Standards (June 24, 2023)

Concentrations in **BOLD and Highlighted Blue** reported above 2L and Class C Surface Water Standards (June 24, 2023)

Concentrations in **BOLD and Highlighted Green** reported above 2L and 10x Class C Surface Water Standards (June 24, 2023)

No concentrations were reported above GCL Standards (June 24, 2023)

Constituents not listed above were reported as BDLs

Laboratory analysis performed by Waypoint Analytical, Inc of Charlotte, NC (NC Certification No. 402)

Table B-5: Public and Private Water Supply Well and Other Receptor Information
Revision Date: 07/31/2023 Incident Number and Name: Incident No. 5325; Ray's Grocery UST ID#: AS-307

Water Supply Well and Other Receptor Information

Well #	Type *	Contact Name	Owner/User/ Both	Contact Phone #	Street Address for Receptor	Receptor Description and Location Details **	Latitude/ Longitude ** (decimal degrees)	Source Status & Use ***	Distance from Source (ft)	Up or Downgradient (if known)
1	WSW	Kathy Etal Watkins & Stephen Coward	Both	828-586-5644	1676 East Main Street, Sylva, NC 28779	Services 3 onsite buildings	35.35530 -83.20174	A / P	~ 175 feet	Cross
1	WSW	N/A (Cross Fit Swerve)	User	517-677-5668	1674 East Main Street, Sylva, NC 28779	Services 3 onsite buildings	35.35530 -83.20174	A / P	~ 175 feet	Cross
1	WSW	N/A (Mountain Home & Lawn)	User	828-508-0048	1668 East Main Street, Sylva, NC 28779	Services 3 onsite buildings	35.35530 -83.20174	A / P	~ 175 feet	Cross
2	WSW	Gary Paul Frye	Both	828-586-5644	37 Chaparral Drive, Sylva, NC 28779	Services residence	35.35683 -83.20229	A / P	600 feet	Up
3	WSW	Tom Wilson	Both	828-269-3854	57 Crestview Heights, Sylva, NC 28779	Used for toilets	35.35890 -83.19980	A / NP	1,400 feet	Up
4	WSW	Ash Worboys	Both	336-501-0173	73 Griffin Street, Sylva, NC 28779	Services residence	35.35327 -83.20497	A / P	1,285 feet	Cross
5	WSW (1st Well)	Tom Massie	Both	828-226-8572	87 Cliffside Drive, Sylva, NC 28779	Services residence	35.35503 -83.19785	A / P	1,025 feet	Cross
5a	WSW (2nd Well)	Tom Massie	Both	828-226-8572	87 Cliffside Drive, Sylva, NC 28779	Services residence	35.35503 -83.19785	A / P	1,025 feet	Cross
6	WSW	Jim Evans	Both	828-586-4335	112 Griffin Street, Sylva, NC 28779	Services residence	35.35386 -83.20400	A / P	930 feet	Cross
7	WSW	Charles Wolfe	Both	828-586-9005	159 Griffin Street, Sylva, NC 28779	Services 2 residences (incl 180 Nanny's Lane)	35.35454 -83.20512	A / P	1,140 feet	Cross
8	WSW	Charles Wolfe	Owner	828-586-9005	178 Webster Road, Sylva, NC 28779	Services residence	35.35316 -83.20395	A / P	1,100 feet	Cross / Down
9	WSW	Charles Wolfe	Both	828-586-9005	180 Webster Road, Sylva, NC 28779	Services commercial building	35.35265 -83.20430	A / P	1,295 feet	Cross / Down
10	WSW	Sam Cogdill	Both	828-507-4187	251 Chaparral Drive, Sylva, NC 28779	Services 5 residences (incl 34, 36, 185 and 270 Chaparral Drive))	35.35804 -83.20371	A / P	1,270 feet	Up
11	WSW	Unknown	Unknown	Unknown	282 Nanny's Lane, Sylva, NC 28779	Services residence	35.35564 -83.20614	A / P	1,435 feet	Cross
12	WSW	Bruce Green	Owner	828-421-2902	1594 East Main Street, Sylva, NC 28779	Services 2 commercial buildings	35.35629 -83.20134	A / P	375 Feet	Up
13	WSW	Estate of John V Edwards	Owner	828-586-8987	1609 East Main Street, Sylva, NC 28779	Services 2 commercial buildings	35.35643 -83.20061	A / P	485 feet	Up
14	WSW	Unknown	Unknown	Unknown	52 Mountain Oaks Lane, Sylva, NC 28779	Services residence	35.35288 -83.20499	A / P	1,405 feet	Cross

* Ex: WSW = Water Supply Well, SWB = Surface Water Body, Resvr = Reservoir, PWS = Public Water Supply, PW = Public Well, SW = Supply Well, WPA = Wellhead Protection Areas, RA = Recharge Areas (for deep aquifers), Sub = Subsurface Structures, Con = Conduits, Other:

** The location and/or latitude/longitude (IN DECIMAL DEGREES) must be sufficiently accurate and precise to allow easy location of wells (or recovery if buried/paved/covered-over, lost, or otherwise damaged) and for the location / replication of sampling points for any other receptor. Coordinates are estimated based on physical location of onsite structure(s)

*** Status: A = Active or IA = Inactive *and* Use: P = Potable or NP = Non-Potable Use. (Describe further in Additional Information for Water Supply Wells table below.)

Additional Information for Water Supply Wells (and Other Receptors, if applicable)

Well # / ID (same as above)	Public Water: Connected / Available / Not Available	Well Currently Used for:	Active / Inactive / Abandoned	Private / Public / Semi-Public	Construction Method and Well Type	Total Depth (ft BGS)	Casing Depth (ft BGS)	Screened Interval (x to y ft BGS)

ft BGS = Feet below ground surface

Table B-6: Contiguous Property Owners/OccupantsRevision Date: 01/17/2023 Incident No: 5325; Name: former Ray's Grocery UST ID#: AS-307

Tax Parcel Number / Map ID	Owner / Occupant Name	Address (Physical)	Address (Mailing)
7641-70-5711 (Subject Property)	Kathy Etal Watkins & Stephen Coward	1668, 1674 and 1676 East Main Street, Sylva, NC 28779	PO Box 313, Webster, NC 28788
7641-70-5889 (Property to North)	United Community Bank	1640 East Main Street, Sylva, NC 28779	PO Box 398, Blairsville, GA 30514
7641-70-1860 (Property to West)	Kathy Etal Watkins & Stephen Coward	E Main Street, Sylva, NC 28779	PO Box 313, Webster, NC 28788
7641-70-3303 (Property to South)	Lowe's Home Centers, Inc	1716 East Main Street, Sylva, NC 28779	Lowe's of Sylva #2257, 1000 Lowe's Blvd Tax Dept, Mooresville, NC 28117

Table B-7: Monitoring and Remediation Well Construction Information
Revision Date: 08/23/2023 Incident Number and Name: 5325: Ray's Grocery UST ID#: AS-307

Well ID	Date Installed (m/dd/yy)	Date Water Level Measured (m/dd/yy)	Well Casing Diameter (in.)	Well Casing Depth (ft. BGS)	Screened Interval (x to y ft. BGS)	Depth of Well (ft. BGS)	Top of Casing Elevation* (ft.)	Depth to Water from Top of Casing (ft.)	Free Product Thickness ** (ft.)	Initial Groundwater Elevation* (ft.)	Latitude/ Longitude (decimal degrees)***
MW-1	6/21/2023	6/24/2023	2"	7'	7 - 17'	17'	N/A	4.63'	0.0	9'	35.35523 -83.20101
MW-2	6/21/2023	6/24/2023	2"	7'	7 - 17'	17'	N/A	5.64'	0.0	9'	35.35515 -83.20122
MW-3	6/21/2023	6/24/2023	2"	7'	7 - 17'	17'	N/A	4.84'	0.0	8'	35.35502 -83.20101
MW-4	6/21/2023	6/24/2023	2"	7'	7 - 17'	17'	N/A	5.07'	0.0	8'	35.35495 -83.20112

ft BGS = feet below ground

* Reference Point for Elevation Measurements Sea Level

** If free product is present in a well, groundwater elevation is calculated by: [Top of Casing Elevation - Depth to Water] + [free product thickness x 0.8581]

*** The location must be sufficiently accurate and precise to allow easy recovery of lost or damaged wells.

Appendix B

Notice of Intent: UST Permanent Closure or Change in Service Form (UST-3 Form)

UST-3 Notice of Intent: UST Permanent Closure or Change-in-Service

Return completed form to:

The DWM Regional Office located in the area where the facility is located. Also send a copy to the Central Office in Raleigh.
Go to the following link for the regional and central office mailing addresses:
<https://www.deq.nc.gov/about/divisions/waste-management/ust/ro-staff>

STATE USE ONLY

I.D. # _____

Date Received _____

INSTRUCTIONS (READ THIS FIRST)

Complete and return a UST-3 form at least **thirty (30) days** prior to closure or change-in-service activities.

Completed UST closure or change-in-service site assessment reports, along with a copy of the UST-2A and/or 2B forms, should be submitted to the appropriate Division of Waste Management (DWM) Regional Office within thirty (30) days following closure activities. The UST-2 form should also be submitted to the Central Office in Raleigh so that the status of the tanks may be changed to permanently closed and your tank fee account can be closed out. Note: Tank fees may be due for unregistered tanks.

UST closure and change-in-service site assessments must be completed in accordance with the latest version of the *Guidelines for Site Checks, Tank Closure and Initial Response*. The guidelines can be obtained at <https://deq.nc.gov/about/divisions/waste-management/ust>. Note: To close tanks in place you must obtain prior approval from the DWM Regional office located in the region where the facility is located.

You must make sure that USTs removed from your property are disposed of properly. When choosing a closure contractor, ask where the tank(s) will be taken for disposal. Usually, USTs are cleaned and cut up for scrap metal. This is dangerous work and must be performed by a qualified company. Tanks disposed of illegally in fields or other dumpsites can leak petroleum products and sludge into the environment. If your tanks are disposed of improperly, you could be held responsible for the cleanup of any environmental damage that occurs.

I. OWNERSHIP OF TANKS

Owner Name (Corporation, Individual, Public Agency, or Other Entity)
Kathy Watkins et al

Street Address
PO Box 313

City
Webster

County
Jackson

State
NC

Zip Code
28788

Phone Number
828-507-0628

Email
N/A

II. LOCATION

Facility Name or Company
Vacant Parcel

Facility ID # (If known)
N/A

Street Address
1668 E. Main Street

City
Sylva

County
Jackson

Zip Code
28779

Phone Number
N/A

III. CONTACT PERSONNEL

Name:
David Graham

Company Name:
Hart & Hickman, PC

Job Title:
Project Manager

Phone Number:
704-586-0007

IV. TANK REMOVAL, CLOSURE IN PLACE, CHANGE-IN SERVICE

- Contact local fire marshal.
- Plan entire closure event.
- Conduct Site Soil Assessment.
- If removing tanks or closing in place, refer to API Publication 2015 *Cleaning Petroleum Storage Tanks* and 1604 *Removal and Disposal of Used Underground Petroleum Storage Tanks*.
- Provide a sketch locating piping, tanks and soil sampling locations.
- Submit a closure report in the format of UST-12 (including the form UST-2) within thirty (30) days following the site investigation.
- If a release from the tanks has occurred, the site assessment portion of the tank closure must be conducted under the supervision of a P.E. or L.G., with all closure site assessment reports bearing the signature and seal of the P.E. or L.G. If a release has not occurred, the supervision, signature or seal of a P.E. or L.G. is not required.
- Keep closure records for three (3) years.

V. WORK TO BE PERFORMED BY

Contractor Name:
Tony Disher

Contractor Company Name:
EVO Corporation

Address:
1703 Vargrave Street

City:
Winston-Salem

State:
NC

Zip Code:
27107

Phone No:
336-725-5844

Primary Consultant Name:
David Graham, PG

Primary Consultant Company Name:
Hart & Hickman, PC

Consultant Phone No:
704-586-0007

VI. TANKS SCHEDULED FOR CLOSURE OR CHANGE-IN-SERVICE

Tank ID No.	Size in Gallons	Last Contents	Proposed Activity		
			Removal	Closure Abandonment in Place *	Change-In-Service New Contents Stored
1	2000	Unknown	☒	☐	
			☐	☐	
			☐	☐	
			☐	☐	
			☐	☐	

* Prior written approval to abandon a tank in place must be received from a DWM Regional Office.

VII. OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE

Has a release from a UST system occurred at this location? ☐ Yes ☐ No ☒ Unknown

I understand that I can be held responsible for environmental damage resulting from the improper disposal of my USTs.

Print name and official title: David Graham - Project Manager for Hart & Hickman, PC as Agent for NC DOT

Signature 

Date Signed
January 10,
2025

SCHEDULED REMOVAL DATE
February 5, 2025

Notify your DWM Regional Office 48 hours before this date if scheduled removal date changes

Appendix C
Fire Permit Inspection Approval Email

David Graham

Subject: FW: Jackson County Inspection Results

-----Original Message-----

From: Jackson County Permitting Center <mmurphy@roktch.net>

Sent: Friday, January 31, 2025 7:24 AM

To: Tony Disher <Tony.Disher@evocorp.net>

Cc: jcpermitcenter@jacksonnc.org

Subject: Jackson County Inspection Results

Greetings from Jackson County Code Enforcement. Please see your inspection results below.

Inspection Results

Job Name: WATKINS, KATHY ETAL

Inspection Date:1/31/2025

Permit Number:2023-25109-2-27061

Inspector: Danny Lewis

Inspection Type:Other

Inspection Results:Approved

Notes:

Common Rejections:

Appendix D
Health and Safety Plan

EMERGENCY CONTACT INFORMATION
NC DOT Road Improvement - UST Removals
East and West Main St. Sylva, NC
H&H Job No. ROW-809
January 20, 2025

Emergency Response

- (1) Hospital: (i.e., address and telephone number). **Attach Hospital Route Map or Directions**

Harris Regional Hospital: Emergency Room, 68 Hospital Road, Sylva, NC 28779 Phone: (828) 586-7000 (see attached map)

In the event of an emergency situation on the site, personnel are to immediately notify the appropriate emergency responder (i.e., fire, rescue, police, etc.), and to take any corrective actions or emergency procedures that can be safely performed (i.e., first-aid, CPR, etc.) When conditions permit, onsite personnel must notify the H&H Project Manager and Health & Safety Officer that an incident has occurred. Onsite personnel should review and be familiar with the phone number and location of the nearest hospital (listed above).

- (2) On-site emergency contact person and telephone number:

N/A

- (3) Other emergency contacts as appropriate: (i.e., fire, ambulance, 911, etc.)

- | |
|--|
| <ul style="list-style-type: none">• Ambulance, Fire, & Police - 911• Poison Control – (800) 222-1222• H&H Field Staff – Tyler Shulz – (704) 607-3877• H&H Project Manager – David Graham – (704) 649-5999 (cell)• Shannon Cottrill, Health & Safety Officer (704) 577-8810 (cell)• Client Contact – Ashley Cox – NC DOT (919) 707-6872 (office) |
|--|

- (4) Other non-emergency contacts as appropriate: (i.e., H&H Clinic addresses)

- | |
|--|
| <ul style="list-style-type: none">• Mountain Park Urgent Care: 90 E. Main Street, Sylva, NC (828) 631-3181• Concentra, Steele Creek: 8943 South Tryon St, Suite K, Charlotte, NC 28273 (704) 588-0885• Concentra, Freedom Drive: 4221 Tuckaseegee Road, Charlotte, NC 28208 (704) 395-0060 |
|--|

Site History (Describe what is known about the site. i.e., type of facility, operations, chemicals, etc.).

H&H is under contract to perform UST removal activities at four sites located along Main St. in Sylva, Jackson County, North Carolina. Potential USTs were identified via EM/GPR during Phase II assessment activities in 2022. Monitoring well abandonment activities will also be conducted at three sites on Main Street.	
<u>Parcel ID</u>	<u>Property Owner - Address</u>
Parcel 6	Wholesale Investments LLC – 345 W. Main Street (2 USTs)
Parcel 10	Shirley Sutton – 360 W. Main Street (3 USTs)
Parcel 24	Alpine Sylva LLC – 28 W. Main Street (2 USTs) (MW Aban.)
Parcel 78	Pole Yard Properties, LLC – (MW Abandonments)
Parcel 85	Vision Quest Properties – 741 E. Main Street (MW abandonments)
Parcel 132	Kathy Watkins, Et Al – 1668 E. Main Street (1 UST)

Scope of Work (Describe task(s) to be performed).

The scope of work (SOW) for activities that may be performed at the site by H&H personnel includes the following:
• Oversee utility locate. • Provide oversight during removal of residual fluids and sludge from the UST(s) with a vacuum truck. • After fluid removal, a lower explosion level (LEL) meter will be utilized to monitor for explosive atmospheres in the UST(s). Explosive vapors will be purged from the UST(s) using dry ice (or another equivalent). • Provide oversight for overburden and UST removal. • Collection of soil closure samples from the base of the UST excavation. • Provide oversight while the excavation is being backfilled with on-Site and imported soil. • Contractor will provide lane closure contractor to close eastbound lane on Main St. during closure activities on Parcel 6. • Oversight of drilling subcontractor for well abandonment activities.

Potential Hazards (List known or suspected hazards present on-site and preventative measures. Refer to *Job Safety Analysis* files for reference/assistance).

(1) **Physical Hazards** (i.e., fire, explosion, traffic, slips, trips, and falls, etc.).

Task	Physical Hazards	Action for hazard prevention	Potential for Exposure
Soil Sample Collection	Pinch points, muscle strain, slips/trips, moving vehicles	Wear cut resistant gloves, set up barriers around the work area, use caution and be aware of surface conditions	Low
UST Removal Oversight	Noise, falling items, being struck by large moving equipment	Wear hearing protection, discuss hand signals with equipment operators and trucks, wear proper PPE	High
Oversight of Drilling/Excavation Equipment	Pinch points, noise, falling items, being struck by large, moving equipment, falling into open excavation	Discuss pinch points during kickoff meeting, ear plugs, hard hat, safety vest, establish perimeter around open test pits and backfill immediately.	Medium

(2) Chemical Hazards (i.e., chemicals or products stored on-site).

- Petroleum related volatile organic compounds (VOCs) and/or aromatic compounds may be present in soil, groundwater, and/or soil gas at the site.

<u>Task</u>	<u>Chemical Hazards</u>	<u>Action for hazard prevention</u>	<u>Potential for Exposure to Hazard</u>
Soil sampling	Petroleum VOCs or SVOCs	Don nitrile gloves when contacting soil at the Site.	Medium

(3) Biological Hazards (i.e., toxic insects, poisonous plants, and poisonous snakes).

(4) Other Hazards (i.e., high winds, thunderstorms, hail, lightning, snow, and ice.)

Pedestrian traffic is possible across the Site Vehicle traffic onsite and along Main Street
--

Training

- (1) Minimum Training Required (Review site specific information prior to entering the site).

- 40-hour OSHA HAZWOPER training
- 8-hour OSHA HAZWOPER supervisor training (if required)
- Medical Monitoring Program Participant
- “Fit for Duty” Clearance from Medical Director and current respirator fit test

- (2) Specialized Training or Required Permits (i.e., site specific, or special permits may be necessary).

- The NC One Call 811 and a private utility locator will provide utility location services to identify subsurface utilities during excavation activities.

Personal Protective Equipment (PPE)

- (1) PPE Required: (examples: hard hat, safety glasses with side shields, steel toe boots, Tyvek coveralls, respirator, rubber boots, gloves, etc.).

The following PPE will be required during the performance of site activities:

Safety glasses	At all times during the performance of site work, regardless of the task
Safety shoes/boots	At all times during the performance of site work, regardless of the task
Traffic safety vest	At any time where work is performed in areas of vehicular traffic and heavy equipment, or within 25 ft of such an area
Hearing Protection	At any time where noise levels are above natural ambient levels, at any time when working within 25 ft of operational heavy equipment (i.e., excavators), and at any time when utilizing portable equipment which creates noise levels above natural ambient levels (i.e., drills, saws, etc)
Leather work gloves	At any time the use of hand protection is warranted, including but not limited to, operations involving the use of hand tools
Nitrile gloves	At any time environmental samples are to be collected or contaminated media is being handled
Hard hat	At any time when working within 25ft of operational heavy equipment and when working within a space with limited overhead clearance and/or overhead obstructions (including the basement)
Tyvek® coveralls	At any time where dermal exposure to contaminants is imminent or assured, or where exposure to liquid or solid wastes is likely. The use of Tyvek® coveralls may require the modification of the PPE level established for the site
Respirator	At any time when volatile organic vapor measurements indicate levels at or in excess of the action level established for the site (see Exposure Monitoring below). When used, the appropriate respirator cartridge must be used (i.e., organic vapor). Consultation with the Project Manager and Health & Safety Officer is <u>required</u> prior to the use of a respirator.

NOTE: EACH OR ANY COMBINATION OF EACH OF THESE FORMS OF PPE MUST BE UTILIZED IN ACCORDANCE WITH CLIENT SPECIFIC HEALTH AND SAFETY REQUIREMENTS, IF APPLICABLE.

Exposure Monitoring (Describe exposure monitoring to be conducted).

During drilling and intrusive sampling activities, a photoionization detector (PID) shall be utilized to monitor potential exposure to volatile organic vapors. Monitoring of potential volatile organic vapors will be conducted within the breathing zone (i.e., 4 to 6 ft above ground surface), and will be conducted periodically during each day. A minimum of a single measurement within the breathing zone in the work area(s) should be performed, and data obtained through the performance of this monitoring shall be recorded in the field book, noting the date, time, location and measurement obtained. More frequent vapor monitoring should be conducted as conditions warrant (i.e., recognition of offensive odors).

As a PID detects numerous volatile organic vapors and is not specific to a particular compound, the action level for organic vapors as monitored with the PID at the site is established at a level of 0.5 parts per million (ppm), above background levels. This level is the acceptable OSHA time weighted average (TWA) limit for benzene (NIOSH, Pocket Guide to Chemical Hazards, September 2005).

- If little to no work has been performed previously at the site use VC (TWA=1ppm).
- If more comprehensive site characterization info is available, and no VC is present, action level may be increased to match appropriate hazardous compound.
- If this level is observed or exceeded within the breathing zone for more than 1 minute, operations are to be suspended and personnel will move up wind of the work area until levels dissipate.
- If volatile organic vapor levels do not dissipate in the work area, contact the Project Manager and Health & Safety Officer, ventilation measures may be necessary in the work area and/or the required PPE may be modified to include donning of an appropriate respirator.

Note: Calibration, frequency of calibration, and use of the PID must be performed in accordance with the manufacturer's specifications.

Decontamination (Evaluate the need for decontamination, describe procedures, etc.)

Driller's sampling devices (i.e., screen-point samplers, sampling rods, stainless steel hand augers, and probe rods) shall be decontaminated in accordance with Section 9.1, *Field Equipment Decontamination Procedure*, of the. Decontamination is to be performed within a dedicated decontamination area. Decontamination fluids and waste materials will be properly contained for offsite disposal. All other sampling equipment shall be disposed of (i.e., nitrile gloves, DPT sleeves).

Dedicated or disposable sampling apparatus will be properly contained for disposal if it has come into contact with hazardous materials or suspect hazardous materials. If dedicated or disposable equipment can be properly decontaminated after use, it may be disposed of as non-hazardous in an appropriate container after decontamination.

Site Control (Evaluate the need for site control to protect persons from exposure to hazardous conditions; i.e., work permits, cones, barricade tape, etc.).

H&H personnel shall take necessary measures to maintain site control and limit exposure of persons to hazardous conditions or hazardous materials. As needed, H&H shall establish work areas to be demarked with traffic cones, barricades, caution tape, or other appropriate measures.

In general, a minimum perimeter of 25 ft should be established around the work area by one or more of the control measures listed above. Where possible, operations will not be conducted in a manner which increases personnel or subcontract exposure to traffic or other hazards.

No unauthorized personnel are to be allowed in the work areas during operations.

Safety Briefings

Safety briefings will be held on each day during which site work is performed. A minimum of one daily safety briefing will be held on the site by all personnel involved in site operations. Additional safety briefings will be conducted as site conditions or hazards change, when returning to the site following breaks in operation such as lunch or weekends, or at other appropriate times to be determined by on-site personnel or the Project Manager.

Records of these safety meetings will be noted on the safety briefing log sheets (provided at the end of this document) and in the field book, and will include the date and time of the briefing, names and affiliations of attendees, and any pertinent subjects of discussion.

Additional Information/Notes (Please enter any pertinent information that may be relevant for the site, this is to be executed before and after site visits. Information may include items like gate instructions, etc.)

Date executed: January 20, 2025

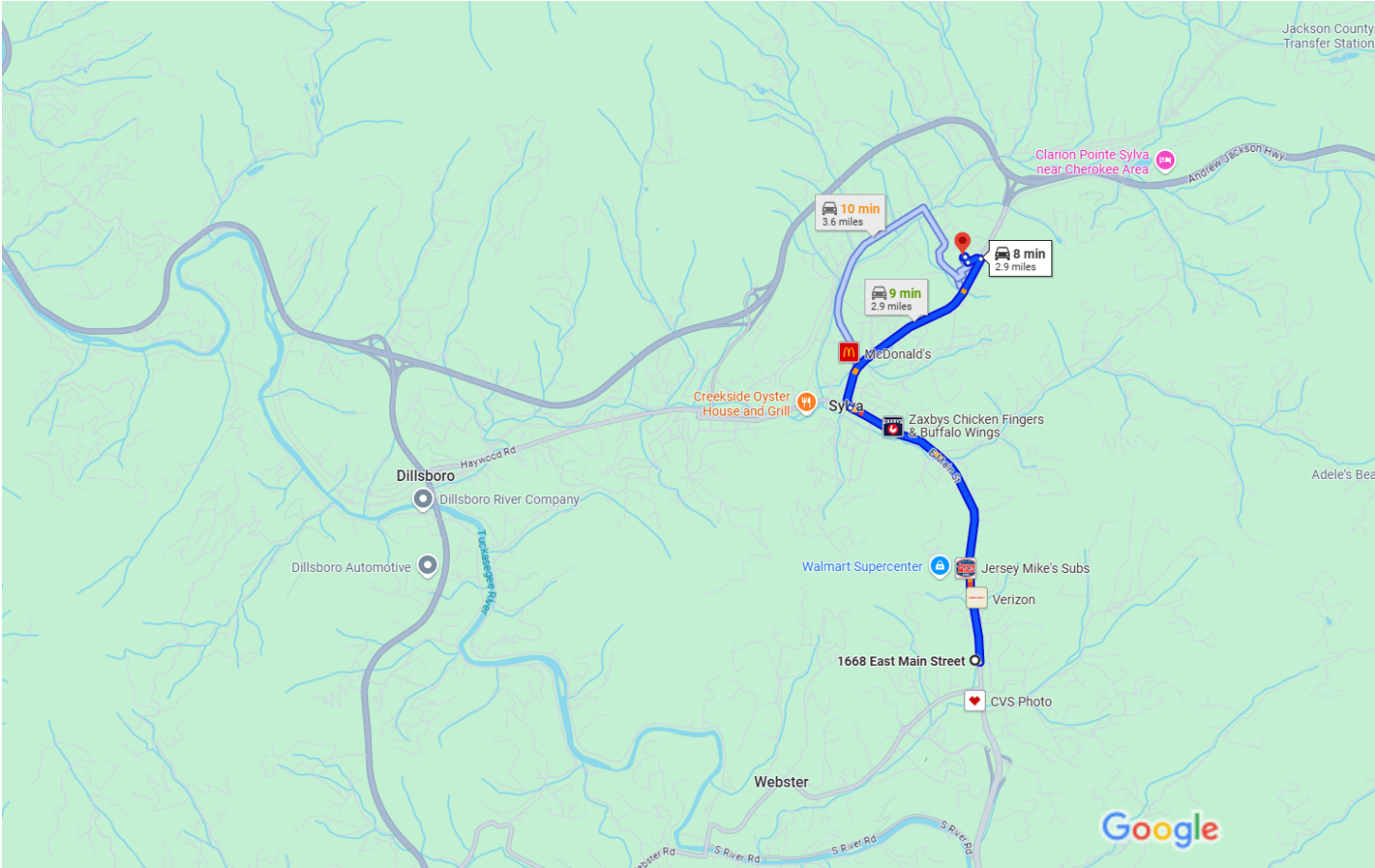
Prepared by David Graham

[Insert Hospital Directions and Map]

Google Maps

1668 E Main St, Sylva, NC 28779 to Harris Reg'l Hospital, 68 Hospital Rd, Sylva, NC 28779

Drive 2.9 miles, 8 min



Map data ©2025 Google 2000 ft

- via NC-107 N/E Main St and US-23 BUS N

8 min

2.9 miles

Fastest route, lighter traffic than usual
- via NC-107 N/E Main St, US-23 BUS N and Hospital Rd

9 min

2.9 miles
- via NC-107 N/E Main St and Skyland Dr

10 min

3.6 miles

Some traffic, as usual

Explore nearby Harris Reg'l Hospital

[Insert Safety Briefing Forms]

Tail-Gate Safety Briefing Attendance Log

Name

Date

[Insert Near Miss Forms]

NEAR MISS REPORT

A near miss is a potential hazard or incident that has not resulted in personal injury. Unsafe working conditions, unsafe employee work habits, improper use of equipment or use of malfunctioning equipment have the potential to cause work related injuries. It is everyone's responsibility to report and /or correct these potential accidents/incidents immediately. Please complete this form as a means to report these near-miss situations.

Location _____ Date _____

Time _____ ☐ am ☐ pm

Please check all appropriate conditions:

☐

Unsafe Act

☐

Unsafe equipment

☐

Unsafe Condition

☐

Unsafe use of equipment

Description of incident or potential hazard: _____

Employee Signature _____ Date _____
(optional)

NEAR MISS INVESTIGATION

Description of the near-miss condition: _____

Root Causes (primary & contributing): _____

Corrective action taken (Remove the hazard, replace, repair, or retrain in the proper procedures for the task)

Signed _____ Date Completed _____

Not completed for the following reason: _____

Management _____ Date _____

ACCIDENT / EXPOSURE REPORT FORM

EMPLOYEE NAME _____ DATE OF BIRTH _____
HOME ADDRESS _____ PHONE NO. _____
SEX: MALE __ FEMALE __ JOB TITLE _____ SOC. SEC. NO. _____
OFFICE NO. _ OFFICE LOCATION _____ DATE OF HIRE _____
HOURS USUALLY WORKED: HOURS PER DAY _____ HOURS PER WEEK _____
TOTAL HOURS WEEKLY _____

WHERE DID ACCIDENT, OR EXPOSURE OCCUR? (INCLUDE ADDRESS) _____

COUNTY _____ ON EMPLOYER'S PREMISES? YES _____ NO _____

WHAT WAS EMPLOYEE DOING WHEN THE ACCIDENT OCCURRED? (BE SPECIFIC) _

HOW DID THE ACCIDENT OR EXPOSURE OCCUR? (DESCRIBE FULLY) _____

WHAT STEPS COULD BE TAKEN TO PREVENT SUCH AN OCCURRENCE? _____

OBJECT OR SUBSTANCE THAT DIRECTLY INJURED EMPLOYEE _____

DESCRIBE THE INJURY OR ILLNESS _____

PART OF BODY AFFECTED _____

NAME AND ADDRESS OF PHYSICIAN _____

IF HOSPITALIZED, NAME AND ADDRESS OF HOSPITAL _____

DATE OF INJURY/ILLNESS _____ TIME OF DAY _____

LOSS OF ONE OR MORE DAY OR WORK? YES/NO _____

IF YES, DATE LAST WORKED _____

HAS EMPLOYEE RETURNED TO WORK? _____ IF YES, DATE RETURNED _____

DID EMPLOYEE DIE? _____ IF YES, DATE _____

COMPLETED BY (PRINT) _____

SIGNATURE _____

TITLE _____ DATE _____

AN ACCIDENT, EXPOSURE REPORT MUST BE COMPLETED BY THE SUPERVISOR OR SITE SAFETY OFFICER IMMEDIATELY UPON LEARNING OF THE INCIDENT. THE COMPLETED REPORT MUST BE IMMEDIATELY TRANSMITTED TO THE MANAGER, HEALTH & SAFETY.

Appendix E
Certificate of Disposal and Non-Hazardous Materials Manifest (Liquid)



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

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 856 gallons of non-hazardous contaminated water received on 1/30/2025 from:

Generator: NC Department of Transportation (NC DOT)

Originating at: 1668 E. Main Street (Parcel 132)
Sylva, Jackson County, NC

EC Waste ID #: 012530

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. 20275

GENERATOR INFORMATION

Generator: NCDOT
Site Address: 1668 E. Main St
City/State: Syiva, NC

Phone: 919-707-6872
Contact: Ashley Cox, Jr.

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): _____
Empty Weight (lbs): _____
Net Weight (lbs): _____

Material: Product Water JTX
Contaminant: Gasoline/Diesel

Quantity

856

Tons Drums Pails Sacs Yards Other: gallons

TRANSPORTER INFORMATION

Transporter: Evo Corporation
Truck #: 419

Phone: 336-725-5844
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: Lit Myer

Date: 1-30-25

FACILITY INFORMATION

Evo Corporation

1703 Vargrave Street

Winston-Salem NC 27107

Evo Project #: 012530

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: 1/30/25

White/Facility

Canary/Invoice

Pink/Carrier

Appendix F
Tank Disposal Certificate



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

TANK DISPOSAL CERTIFICATE

Tank Owner: NC Department of Transportation (NC DOT)

Site Address: 1668 E. Main Street (Parcel 132)
Sylva, Jackson County, NC

Description of Tanks:

<u>Tank Number</u>	<u>Size of Tank</u>	<u>Contents</u>
1	1,000 Gallons	#2 Fuel Oil

Transporter: Evo Corporation

EC Project #: 012530

Disposal Certification:

Evo Corporation does hereby certify that the above named storage tank was transported to Metalwood Recycling, 656 Skyland Road, Sylva, NC for proper disposal and recycling.

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

Appendix G
Site Investigation Report for Permanent Closure or Change-in-Service of
Un-Registered UST (UST-2B Form)

UST-2B

Site Investigation Report for Permanent Closure or Change-in-Service of UN-REGISTERED UST



Return completed form to:

NC DEQ / DWM / UST SECTION
1646 MAIL SERVICE CENTER
RALEIGH, NC 27699-1646
ATTN: REGISTRATION & PERMITTING

phone (919) 707-8171 fax (919) 715-1117 <http://www.wastenotnc.org/>

Facility ID #

STATE USE ONLY:

Date Received

INSTRUCTIONS (READ THIS FIRST)

1. UST permanent closure or change in service must be completed in accordance with the latest version of the Guidelines for Site Checks, Tank Closure and Initial Response and Abatement. The guidelines can be obtained at <http://deq.nc.gov/about/divisions/waste-management/waste-management-permit-guidance/underground-storage-tanks-section>.
2. Permanent closure: Complete all sections of this form.
3. Change-in-service: Where UST systems will be converted from storing a regulated substance to a non-regulated substance, complete sections I, II, III, IV, and VI.
4. For more than 5 un-registered UST systems, attach additional forms as needed.
5. **Un-Registered USTs may be subject to unpaid fees and late penalties.**
6. REGISTERED USTs use Form UST-2A.

I. OWNERSHIP OF TANKS

Owner Name (Corporation, Individual, Public Agency, or Other Entity)

Kathy Watkins et al

Street Address

PO Box 313

City

Webster

County

Jackson

State

NC

Zip Code

28778

Phone Number

828-507-0628

II. LOCATION OF TANKS

Facility Name or Company

Unknown (vacant)

Facility ID # (If known)

NA

Street Address

1668 E.Main Street

City

Sylva

County

Jackson

Zip Code

28779

Phone Number

NA

III. CONTACT PERSONNEL

Contact for Facility:

Kathy Watkins et al

Job Title:

Owner

Phone #:

828-507-0628

Closure Contractor Name:

Tony Disher

Closure Contractor Company:

EVO Corporation

Address:

Winston-Salem, NC

Phone #

336-725-5844

Primary Consultant Name:

David Graham, PG

Primary Consultant Company:

Hart & Hickman, PC

Address:

Charlotte, NC

Phone #

704-586-0007

IV. UST INFORMATION FOR UN-REGISTERED UST SYSTEMS

REGISTERED USTs use Form UST-2A.

V. EXCAVATION CONDITION

Tank ID No.	Size in Gallons	Last Contents	Last Use Date	Permanent Close Date	Method of Permanent Closure: Indicate REMOVED or enter fill material, such as foam/ concrete/ sand	Change-in-Service Date	Water in excavation		Free product		Notable odor or visible soil contamination	
							Yes	No	Yes	No	Yes	No
UST-1	1,000	Fuel Oil	N/A	1/30/25	Removed		☐	☒	☐	☒	☐	☒
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐

VI. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true accurate and complete.

Print name and official title of owner or owner's authorized representative

David Graham, PG - Project Manager - Hart & Hickman, PC for NC DOT

Signature

Date Signed

March 21, 2025

Appendix H
Laboratory Analytical Data Report

2/26/2025

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC, 28203

Ref: Analytical Testing
Revised Lab Report Number: 25-034-0008 (Original Report Date 2/11/2025)
Client Project Description: ROW-809 Parcel 132
Sylva, NC

Dear David Graham:

Waypoint Analytical, LLC (Charlotte) received sample(s) on 1/31/2025 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2021) unless otherwise indicated.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,



Angela D Overcash
Senior Project Manager

Certification Summary

Laboratory ID: WP CNC: Waypoint Analytical Carolina, Inc. (Charlotte), Charlotte, NC

State	Program	Lab ID	Expiration Date
North Carolina	State Program	37735	07/31/2025
North Carolina	State Program	402	12/31/2025
South Carolina	State Program	99012	07/31/2025
South Carolina	State Program	99012	12/31/2024

Laboratory ID: WP MTN: Waypoint Analytical, LLC. (Memphis), Memphis, TN

State	Program	Lab ID	Expiration Date
Alabama	State Program	40750	02/28/2025
Arkansas	State Program	88-0650	02/07/2025
California	State Program	2904	06/30/2025
Florida	State Program - NELAP	E871157	06/30/2025
Georgia	State Program	C044	11/14/2025
Georgia	State Program	04015	06/30/2025
Illinois	State Program - NELAP	200078	10/31/2025
Kentucky	State Program	KY90047	12/31/2025
Kentucky	State Program	80215	06/30/2025
Kentucky	State Program	KY90047	12/31/2025
Louisiana	State Program - NELAP	LA037	12/31/2025
Louisiana	State Program - NELAP	04015	06/30/2025
Mississippi	State Program	MS	11/14/2025
North Carolina	State Program	47701	07/31/2025
North Carolina	State Program	415	12/31/2025
Pennsylvania	State Program - NELAP	68-03195	05/31/2025
South Carolina	State Program	84002	06/30/2025
Tennessee	State Program	02027	11/14/2025
Texas	State Program - NELAP	T104704180	09/30/2025
Virginia	State Program	00106	06/30/2025
Virginia	State Program - NELAP	460181	09/14/2025

Sample Summary Table

Report Number: 25-034-0008
Client Project Description: ROW-809 Parcel 132
Sylva, NC

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
91630	T1-1	Solids	01/30/2025 16:30	01/31/2025 15:11		
91630	T1-1	Solids	01/30/2025 16:30	01/31/2025 15:11	8015C DRO	WP MTN
91630	T1-1	Solids	01/30/2025 16:30	01/31/2025 15:11	8270E	WP MTN
91630	T1-1	Solids	01/30/2025 16:30	01/31/2025 15:11	MADEP-EPH	WP MTN
91631	T1-2	Solids	01/30/2025 16:35	01/31/2025 15:11		
91631	T1-2	Solids	01/30/2025 16:35	01/31/2025 15:11	8015C DRO	WP MTN

Summary of Detected Analytes

Project: ROW-809 Parcel 132

Report Number: 25-034-0008

Client Sample ID	Lab Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
T1-1	V 91630					
8015C DRO	Diesel Range Organics (C10-C28)	42100	mg/Kg - dry	2740	02/09/2025 01:24	
8015C GRO	Gasoline Range Organics (C6-C10)	103	mg/Kg - dry	3.10	02/07/2025 19:09	
8260D	Acetone	0.597	mg/Kg - dry	0.003	02/13/2025 21:49	
8260D	n-Butylbenzene	0.170	mg/Kg - dry	0.0007	02/13/2025 21:49	M
8260D	sec-Butyl benzene	0.196	mg/Kg - dry	0.0008	02/13/2025 21:49	M
8260D	tert-Butyl benzene	0.007	mg/Kg - dry	0.0007	02/13/2025 21:49	M
8260D	2-Chlorotoluene	0.038	mg/Kg - dry	0.0007	02/13/2025 21:49	
8260D	Ethylbenzene	0.091	mg/Kg - dry	0.0008	02/13/2025 21:49	M
8260D	n-Hexane	0.003	mg/Kg - dry	0.001	02/13/2025 21:49	J
8260D	Isopropylbenzene	0.122	mg/Kg - dry	0.0007	02/13/2025 21:49	
8260D	4-Isopropyl toluene	0.155	mg/Kg - dry	0.001	02/13/2025 21:49	M
8260D	Naphthalene	0.287	mg/Kg - dry	0.001	02/13/2025 21:49	
8260D	n-Propylbenzene	0.197	mg/Kg - dry	0.0008	02/13/2025 21:49	M
8260D	1,2,4-Trimethylbenzene	1.93	mg/Kg - dry	0.0007	02/13/2025 21:49	E
8260D	1,3,5-Trimethylbenzene	0.318	mg/Kg - dry	0.0008	02/13/2025 21:49	M
8260D	o-Xylene	0.012	mg/Kg - dry	0.0007	02/13/2025 21:49	
8260D	m,p-Xylene	0.174	mg/Kg - dry	0.001	02/13/2025 21:49	
8260D	Xylene (Total)	0.187	mg/Kg - dry	0.0007	02/13/2025 21:49	
8270E	Acenaphthene	2.50	mg/Kg - dry	0.155	02/19/2025 00:37	
8270E	Fluorene	3.80	mg/Kg - dry	0.226	02/19/2025 00:37	
8270E	1-Methylnaphthalene	13.5	mg/Kg - dry	0.240	02/19/2025 00:37	
8270E	2-Methylnaphthalene	14.6	mg/Kg - dry	0.141	02/19/2025 00:37	
8270E	Naphthalene	8.51	mg/Kg - dry	0.157	02/19/2025 00:37	
8270E	Phenanthrene	6.38	mg/Kg - dry	0.199	02/19/2025 00:37	
8270E	Pyrene	2.25	mg/Kg - dry	0.180	02/19/2025 00:37	
MADEP-EPH	Aliphatic C9-C18	3300	mg/Kg - dry	170	02/24/2025 14:35	
MADEP-EPH	Aliphatic C19-C36	1590	mg/Kg - dry	137	02/24/2025 14:35	
MADEP-EPH	Aromatic C11-C22	369	mg/Kg - dry	57.0	02/24/2025 11:42	
MADEP-VPH	Aliphatic C9-C12	785	mg/Kg - dry	32.9	02/14/2025 18:16	
MADEP-VPH	Aromatic C9-C10	274	mg/Kg - dry	4.50	02/14/2025 18:16	
SW-DRYWT	Moisture	30.7	%		02/04/2025 14:22	
T1-2	V 91631					
8015C DRO	Diesel Range Organics (C10-C28)	49.1	mg/Kg - dry	24.9	02/07/2025 22:11	
SW-DRYWT	Moisture	23.6	%		02/05/2025 14:16	

Client: Hart & Hickman (Charlotte)
Project: ROW-809 Parcel 132
Lab Report Number: 25-034-0008
Date: 2/26/2025

CASE NARRATIVE

Report Comments

Revised Report: Revision One
Tests have been added to samples.

Total Petroleum Hydrocarbons - Extractable Method 8015C DRO

Sample 91644

QC Batch No: L798798/L798453

Surrogate(s) was flagged for recovery outside QC limits in this project sample. This sample was re-analyzed for verification, and/or dilution of target analytes. Batch QC samples (method blank and laboratory control samples) all showed surrogates within QC limits.

Volatile Organic Compounds - GC/MS Method 8260D

Analyte: 1,1,2,2-Tetrachloroethane

QC Batch No: V56279/V56274

Recovery for the LCS exceeded the upper acceptance limit. However, all sample results associated with the batch are below the MQL, so this high bias had no impact upon the client data. The results are considered to be acceptable.

Analyte: 1,1,2-Trichloroethane

QC Batch No: V56279/V56274

Recovery for the LCS exceeded the upper acceptance limit. However, all sample results associated with the batch are below the MQL, so this high bias had no impact upon the client data. The results are considered to be acceptable.

Sample 91630 (T1-1)

Analyte: 1,2,4-Trimethylbenzene

QC Batch No: V56279/V56274

Data is reported with the qualifier E, to indicate concentrations above the calibration range by low level analysis. Results for this analyte should be considered an estimated concentration.

Analyte: 1,2-Dibromoethane

QC Batch No: V56279/V56274

Recovery for the LCS exceeded the upper acceptance limit. However, all sample results associated with the batch are below the MQL, so this high bias had no impact upon the client data. The results are considered to be acceptable.

Analyte: 1,2-Dichloroethane

QC Batch No: V56279/V56274

Recovery for the LCS exceeded the upper acceptance limit. However, all sample results associated with the batch are below the MQL, so this high bias had no impact upon the client data. The results are considered to be acceptable.

Analyte: 1,3,5-Trimethylbenzene

QC Batch No: V56279/V56274

This target analyte was flagged for recovery outside QC limits in the associated CCV. Data for this analyte is flagged "M" to indicate that results should be considered minimum concentration due to the potential for a low bias.

Analyte: 1,3-Dichloropropane

QC Batch No: V56279/V56274

Recovery for the LCS exceeded the upper acceptance limit. However, all sample results associated with the batch are below the MQL, so this high bias had no impact upon the client data. The results are considered to be acceptable.

Sample 91630 (T1-1)

Analyte: 4-Bromofluorobenzene

QC Batch No: V56279/V56274

Surrogate recovery(s) was flagged as outside QC limits due to high levels of target and/or non-target analytes. Batch QC samples (method blank and laboratory control samples) all showed surrogates within QC limits.

Analyte: 4-Isopropyltoluene

QC Batch No: V56279/V56274

This target analyte was flagged for recovery outside QC limits in the associated CCV. Data for this analyte is flagged "M" to indicate that results should be considered minimum concentration due to the potential for a low bias.

Analyte: 4-Methyl-2-pentanone

QC Batch No: V56279/V56274

Recovery for the LCS exceeded the upper acceptance limit. However, all sample results associated with the batch are below the MQL, so this high bias had no impact upon the client data. The results are considered to be acceptable.

Analyte: Acetone

QC Batch No: V56279/V56274

This target analyte was flagged for recoveries outside QC limits in the associated CCV. Results should be considered estimated due to the potential for a high bias.

Analyte: Acrolein

QC Batch No: V56279/V56274

Recovery for the LCS exceeded the upper acceptance limit. However, all sample results associated with the batch are below the MQL, so this high bias had no impact upon the client data. The results are considered to be acceptable.

Analyte: Acrylonitrile

QC Batch No: V56279/V56274

Recovery for the LCS exceeded the upper acceptance limit. However, all sample results associated with the batch are below the MQL, so this high bias had no impact upon the client data. The results are considered to be acceptable.

Analyte: Chlorodibromomethane

QC Batch No: V56279/V56274

Recovery for the LCS exceeded the upper acceptance limit. However, all sample results associated with the batch are below the MQL, so this high bias had no impact upon the client data. The results are considered to be acceptable.

Analyte: Dibromomethane

QC Batch No: V56279/V56274

Recovery for the LCS exceeded the upper acceptance limit. However, all sample results associated with the batch are below the MQL, so this high bias had no impact upon the client data. The results are considered to be acceptable.

Analyte: Dichlorodifluoromethane

QC Batch No: V56279/V56274

Relative Percent Difference (RPD) for the duplicate analysis was outside of the allowable QC limits.

Analyte: Ethanol

QC Batch No: V56279/V56274

Recovery for the LCS exceeded the upper acceptance limit. However, all sample results associated with the batch are below the MQL, so this high bias had no impact upon the client data. The results are considered to be acceptable.

Analyte: Ethylbenzene

QC Batch No: V56279/V56274

This target analyte was flagged for recovery outside QC limits in the associated CCV. Data for this analyte is flagged "M" to indicate that results should be considered minimum concentration due to the potential for a low bias.

Analyte: Hexachlorobutadiene

QC Batch No: V56279/V56274

This target analyte was flagged for recoveries outside QC limits in the associated LCS/LCSD. Data for this analyte is flagged "M" to indicate that results should be considered minimum concentration due to the potential for a low bias.

Analyte: Methyl tert-butyl ether (MTBE)

QC Batch No: V56279/V56274

Recovery for the LCS exceeded the upper acceptance limit. However, all sample results associated with the batch are below the MQL, so this high bias had no impact upon the client data. The results are considered to be acceptable.

Analyte: n-Butylbenzene

QC Batch No: V56279/V56274

This target analyte was flagged for recoveries outside QC limits in the associated LCS/LCSD. Data for this analyte is flagged "M" to indicate that results should be considered minimum concentration due to the potential for a low bias.

Analyte: n-Propylbenzene

QC Batch No: V56279/V56274

This target analyte was flagged for recovery outside QC limits in the associated CCV. Data for this analyte is flagged "M" to indicate that results should be considered minimum concentration due to the potential for a low bias.

Analyte: sec-Butylbenzene

QC Batch No: V56279/V56274

This target analyte was flagged for recovery outside QC limits in the associated CCV. Data for this analyte is flagged "M" to indicate that results should be considered minimum concentration due to the potential for a low bias.

Analyte: tert-Butylbenzene

QC Batch No: V56279/V56274



This target analyte was flagged for recovery outside QC limits in the associated CCV. Data for this analyte is flagged "M" to indicate that results should be considered minimum concentration due to the potential for a low bias.

Analyte: trans-1,3-Dichloropropene

QC Batch No: V56279/V56274

Recovery for the LCS exceeded the upper acceptance limit. However, all sample results associated with the batch are below the MQL, so this high bias had no impact upon the client data. The results are considered to be acceptable.

Analyte: Trichlorofluoromethane

QC Batch No: V56279/V56274

This target analyte was flagged for recovery outside QC limits in the associated CCV. Data for this analyte is flagged "M" to indicate that results should be considered minimum concentration due to the potential for a low bias.

Analyte: Vinyl acetate

QC Batch No: V56279/V56274

Recovery for the LCS exceeded the upper acceptance limit. However, all sample results associated with the batch are below the MQL, so this high bias had no impact upon the client data. The results are considered to be acceptable.

Semivolatile Organic Compounds - GC/MS Method 8270E

Sample 91630 (T1-1)

QC Batch No: L800697/L799905

The sample was diluted due to the nature of the sample matrix. Reporting limits have been adjusted accordingly.

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 132
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0008**

REPORT OF ANALYSIS

Lab No : **91630**

Matrix: **Solids**

Sample ID : **T1-1**

Sampled: **1/30/2025 16:30**

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Method
Moisture	30.7	%			1	02/04/25 14:22	CJR	SW-DRYWT

**Qualifiers/
Definitions**

*	Outside QC Limit	DF	Dilution Factor
E	Result above calibration range	J	Estimated value
M	Minimum value	MQL	Method Quantitation Limit

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 132
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0008**

REPORT OF ANALYSIS

Lab No : **91630**

Matrix: **Solids**

Sample ID : **T1-1**

Sampled: **1/30/2025 16:30**

Analytical Method: 8015C DRO

Prep Batch(es): **L798453** 02/06/25 08:00

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Diesel Range Organics (C10-C28)	42100	mg/Kg - dry	2740	4810	1000	02/09/25 01:24	MMK	L798798
Surrogate: OTP Surrogate	78.7		Limits: 50-150%	1000	02/09/25 01:24			8015C DRO

Analytical Method: 8015C GRO

Prep Batch(es): **V56114** 02/07/25 16:47

Prep Method: 5035 MED

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Gasoline Range Organics (C6-C10)	103	mg/Kg - dry	3.10	7.49	50	02/07/25 19:09	BLJ	V56115
Surrogate: a,a,a-Trifluorotoluene	73.4		Limits: 50-137%	50	02/07/25 19:09	BLJ		8015C GRO

Analytical Method: 8260D

Prep Batch(es): **V56274** 02/13/25 16:30

Prep Method: 5035

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acetone	0.597	mg/Kg - dry	0.003	0.028	1	02/13/25 21:49	VBW	V56279
Acrolein	<0.001	mg/Kg - dry	0.001	0.028	1	02/13/25 21:49	VBW	V56279
Acrylonitrile	<0.001	mg/Kg - dry	0.001	0.028	1	02/13/25 21:49	VBW	V56279
Benzene	<0.0008	mg/Kg - dry	0.0008	0.007	1	02/13/25 21:49	VBW	V56279
Bromobenzene	<0.0007	mg/Kg - dry	0.0007	0.007	1	02/13/25 21:49	VBW	V56279
Bromochloromethane	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 21:49	VBW	V56279
Bromodichloromethane	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 21:49	VBW	V56279
Bromoform	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 21:49	VBW	V56279
Bromomethane	<0.002	mg/Kg - dry	0.002	0.014	1	02/13/25 21:49	VBW	V56279

**Qualifiers/
Definitions**

*	Outside QC Limit	DF	Dilution Factor
E	Result above calibration range	J	Estimated value
M	Minimum value	MQL	Method Quantitation Limit

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 132
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0008**

REPORT OF ANALYSIS

Lab No : **91630**

Matrix: **Solids**

Sample ID : **T1-1**

Sampled: **1/30/2025 16:30**

Analytical Method: 8260D

Prep Batch(es): **V56274** 02/13/25 16:30

Prep Method: 5035

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
n-Butylbenzene	0.170 M	mg/Kg - dry	0.0007	0.007	1	02/13/25 21:49	VBW	V56279
sec-Butyl benzene	0.196 M	mg/Kg - dry	0.0008	0.007	1	02/13/25 21:49	VBW	V56279
tert-Butyl benzene	0.007 M	mg/Kg - dry	0.0007	0.007	1	02/13/25 21:49	VBW	V56279
Carbon Disulfide	<0.0009	mg/Kg - dry	0.0009	0.007	1	02/13/25 21:49	VBW	V56279
Carbon Tetrachloride	<0.002	mg/Kg - dry	0.002	0.007	1	02/13/25 21:49	VBW	V56279
Chlorobenzene	<0.0010	mg/Kg - dry	0.0010	0.007	1	02/13/25 21:49	VBW	V56279
Chlorodibromomethane	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 21:49	VBW	V56279
Chloroethane	<0.001	mg/Kg - dry	0.001	0.014	1	02/13/25 21:49	VBW	V56279
Chloroform	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 21:49	VBW	V56279
Chloromethane	<0.0009	mg/Kg - dry	0.0009	0.014	1	02/13/25 21:49	VBW	V56279
2-Chlorotoluene	0.038	mg/Kg - dry	0.0007	0.007	1	02/13/25 21:49	VBW	V56279
4-Chlorotoluene	<0.0006	mg/Kg - dry	0.0006	0.007	1	02/13/25 21:49	VBW	V56279
Di-Isopropyl Ether (DIPE)	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 21:49	VBW	V56279
1,2-Dibromo-3-Chloropropane	<0.0006	mg/Kg - dry	0.0006	0.014	1	02/13/25 21:49	VBW	V56279
1,2-Dibromoethane	<0.0009	mg/Kg - dry	0.0009	0.007	1	02/13/25 21:49	VBW	V56279
Dibromomethane	<0.0008	mg/Kg - dry	0.0008	0.007	1	02/13/25 21:49	VBW	V56279
1,2-Dichlorobenzene	<0.0004	mg/Kg - dry	0.0004	0.007	1	02/13/25 21:49	VBW	V56279
1,3-Dichlorobenzene	<0.0005	mg/Kg - dry	0.0005	0.007	1	02/13/25 21:49	VBW	V56279
1,4-Dichlorobenzene	<0.0009	mg/Kg - dry	0.0009	0.007	1	02/13/25 21:49	VBW	V56279
Dichlorodifluoromethane	<0.002	mg/Kg - dry	0.002	0.014	1	02/13/25 21:49	VBW	V56279
1,1-Dichloroethane	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 21:49	VBW	V56279
1,2-Dichloroethane	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 21:49	VBW	V56279

**Qualifiers/
Definitions**

* Outside QC Limit
E Result above calibration range
M Minimum value

DF Dilution Factor
J Estimated value
MQL Method Quantitation Limit

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 132
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0008**

REPORT OF ANALYSIS

Lab No : **91630**

Matrix: **Solids**

Sample ID : **T1-1**

Sampled: **1/30/2025 16:30**

Analytical Method: 8260D

Prep Batch(es): **V56274** 02/13/25 16:30

Prep Method: 5035

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
1,1-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 21:49	VBW	V56279
cis-1,2-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 21:49	VBW	V56279
trans-1,2-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 21:49	VBW	V56279
1,2-Dichloropropane	<0.0006	mg/Kg - dry	0.0006	0.007	1	02/13/25 21:49	VBW	V56279
1,3-Dichloropropane	<0.0008	mg/Kg - dry	0.0008	0.007	1	02/13/25 21:49	VBW	V56279
2,2-Dichloropropane	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 21:49	VBW	V56279
1,1-Dichloropropene	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 21:49	VBW	V56279
cis-1,3-Dichloropropene	<0.0008	mg/Kg - dry	0.0008	0.007	1	02/13/25 21:49	VBW	V56279
trans-1,3-Dichloropropene	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 21:49	VBW	V56279
Ethanol	<0.020	mg/Kg - dry	0.020	0.360	1	02/13/25 21:49	VBW	V56279
Ethylbenzene	0.091 M	mg/Kg - dry	0.0008	0.007	1	02/13/25 21:49	VBW	V56279
Ethyl Tertiary Butyl Ether (ETBE)	<0.001	mg/Kg - dry	0.001	0.072	1	02/13/25 21:49	VBW	V56279
Hexachlorobutadiene	<0.001 M	mg/Kg - dry	0.001	0.014	1	02/13/25 21:49	VBW	V56279
n-Hexane	0.003 J	mg/Kg - dry	0.0010	0.014	1	02/13/25 21:49	VBW	V56279
2-Hexanone	<0.0009	mg/Kg - dry	0.0009	0.028	1	02/13/25 21:49	VBW	V56279
Isopropylbenzene	0.122	mg/Kg - dry	0.0007	0.007	1	02/13/25 21:49	VBW	V56279
4-Isopropyl toluene	0.155 M	mg/Kg - dry	0.001	0.007	1	02/13/25 21:49	VBW	V56279
Methyl Ethyl Ketone (MEK)	<0.0009	mg/Kg - dry	0.0009	0.028	1	02/13/25 21:49	VBW	V56279
Methyl tert-butyl ether (MTBE)	<0.0009	mg/Kg - dry	0.0009	0.007	1	02/13/25 21:49	VBW	V56279
4-Methyl-2-Pentanone	<0.021	mg/Kg - dry	0.021	0.028	1	02/13/25 21:49	VBW	V56279
Methylene Chloride	<0.002	mg/Kg - dry	0.002	0.014	1	02/13/25 21:49	VBW	V56279
Naphthalene	0.287	mg/Kg - dry	0.001	0.014	1	02/13/25 21:49	VBW	V56279

**Qualifiers/
Definitions**

*	Outside QC Limit	DF	Dilution Factor
E	Result above calibration range	J	Estimated value
M	Minimum value	MQL	Method Quantitation Limit

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 132
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0008**

REPORT OF ANALYSIS

Lab No : **91630**

Matrix: **Solids**

Sample ID : **T1-1**

Sampled: **1/30/2025 16:30**

Analytical Method: 8260D

Prep Batch(es): **V56274** 02/13/25 16:30

Prep Method: 5035

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
n-Propylbenzene	0.197 M	mg/Kg - dry	0.0008	0.007	1	02/13/25 21:49	VBW	V56279
Styrene	<0.002	mg/Kg - dry	0.002	0.007	1	02/13/25 21:49	VBW	V56279
1,1,1,2-Tetrachloroethane	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 21:49	VBW	V56279
1,1,2,2-Tetrachloroethane	<0.0005	mg/Kg - dry	0.0005	0.007	1	02/13/25 21:49	VBW	V56279
Tetrachloroethene	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 21:49	VBW	V56279
Toluene	<0.0010	mg/Kg - dry	0.0010	0.007	1	02/13/25 21:49	VBW	V56279
1,2,3-Trichlorobenzene	<0.0008	mg/Kg - dry	0.0008	0.014	1	02/13/25 21:49	VBW	V56279
1,2,4-Trichlorobenzene	<0.0009	mg/Kg - dry	0.0009	0.014	1	02/13/25 21:49	VBW	V56279
1,1,1-Trichloroethane	<0.002	mg/Kg - dry	0.002	0.007	1	02/13/25 21:49	VBW	V56279
1,1,2-Trichloroethane	<0.0007	mg/Kg - dry	0.0007	0.007	1	02/13/25 21:49	VBW	V56279
Trichloroethene	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 21:49	VBW	V56279
Trichlorofluoromethane	<0.003 M	mg/Kg - dry	0.003	0.014	1	02/13/25 21:49	VBW	V56279
1,2,3-Trichloropropane	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 21:49	VBW	V56279
1,2,4-Trimethylbenzene	1.93 E	mg/Kg - dry	0.0007	0.007	1	02/13/25 21:49	VBW	V56279
1,3,5-Trimethylbenzene	0.318 M	mg/Kg - dry	0.0008	0.007	1	02/13/25 21:49	VBW	V56279
Vinyl Acetate	<0.0007	mg/Kg - dry	0.0007	0.014	1	02/13/25 21:49	VBW	V56279
Vinyl Chloride	<0.0007	mg/Kg - dry	0.0007	0.014	1	02/13/25 21:49	VBW	V56279
o-Xylene	0.012	mg/Kg - dry	0.0007	0.007	1	02/13/25 21:49	VBW	V56279
m,p-Xylene	0.174	mg/Kg - dry	0.001	0.014	1	02/13/25 21:49	VBW	V56279

**Qualifiers/
Definitions**

* Outside QC Limit
E Result above calibration range
M Minimum value

DF Dilution Factor
J Estimated value
MQL Method Quantitation Limit

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 132
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0008**

REPORT OF ANALYSIS

Lab No : **91630**

Matrix: **Solids**

Sample ID : **T1-1**

Sampled: **1/30/2025 16:30**

Analytical Method: 8260D

Prep Batch(es): **V56274** 02/13/25 16:30

Prep Method: 5035

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Xylene (Total)	0.187	mg/Kg - dry	0.0007	0.007	1	02/13/25 21:49		V56279
Surrogate: 4-Bromofluorobenzene	165 *		Limits: 70-130%		1	02/13/25 21:49	VBW	V56279
Surrogate: Dibromofluoromethane	128		Limits: 70-130%		1	02/13/25 21:49	VBW	V56279
Surrogate: Toluene-d8	104		Limits: 70-130%		1	02/13/25 21:49	VBW	V56279

Analytical Method: 8270E

Prep Batch(es): **L799905** 02/13/25 11:38

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acenaphthene	2.50	mg/Kg - dry	0.155	0.962	10	02/19/25 00:37	SMB	L800697
Acenaphthylene	<0.170	mg/Kg - dry	0.170	0.962	10	02/19/25 00:37	SMB	L800697
Aniline	<0.063	mg/Kg - dry	0.063	2.45	10	02/19/25 00:37	SMB	L800697
Anthracene	<0.187	mg/Kg - dry	0.187	0.962	10	02/19/25 00:37	SMB	L800697
Benzo(a)anthracene	<0.124	mg/Kg - dry	0.124	0.962	10	02/19/25 00:37	SMB	L800697
Benzo(a)pyrene	<0.148	mg/Kg - dry	0.148	0.962	10	02/19/25 00:37	SMB	L800697
Benzo(b)fluoranthene	<0.122	mg/Kg - dry	0.122	0.962	10	02/19/25 00:37	SMB	L800697
Benzo(g,h,i)perylene	<0.196	mg/Kg - dry	0.196	0.962	10	02/19/25 00:37	SMB	L800697
Benzo(k)fluoranthene	<0.164	mg/Kg - dry	0.164	0.962	10	02/19/25 00:37	SMB	L800697
Benzoic Acid	<0.242	mg/Kg - dry	0.242	4.76	10	02/19/25 00:37	SMB	L800697
Benzyl alcohol	<0.308	mg/Kg - dry	0.308	4.76	10	02/19/25 00:37	SMB	L800697
Bis(2-Chloroethoxy)methane	<0.163	mg/Kg - dry	0.163	2.45	10	02/19/25 00:37	SMB	L800697
Bis(2-Chloroethyl)ether	<0.090	mg/Kg - dry	0.090	2.45	10	02/19/25 00:37	SMB	L800697
Bis(2-Chloroisopropyl)ether	<0.316	mg/Kg - dry	0.316	2.45	10	02/19/25 00:37	SMB	L800697

Qualifiers/ Definitions

*	Outside QC Limit	DF	Dilution Factor
E	Result above calibration range	J	Estimated value
M	Minimum value	MQL	Method Quantitation Limit

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 132
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0008**

REPORT OF ANALYSIS

Lab No : **91630**

Matrix: **Solids**

Sample ID : **T1-1**

Sampled: **1/30/2025 16:30**

Analytical Method: 8270E

Prep Batch(es): **L799905** 02/13/25 11:38

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Bis(2-ethylhexyl)phthalate	<0.220	mg/Kg - dry	0.220	4.76	10	02/19/25 00:37	SMB	L800697
4-Bromophenyl phenyl ether	<0.217	mg/Kg - dry	0.217	2.45	10	02/19/25 00:37	SMB	L800697
Butyl benzyl phthalate	<0.248	mg/Kg - dry	0.248	2.45	10	02/19/25 00:37	SMB	L800697
4-Chloro-3-methylphenol	<0.232	mg/Kg - dry	0.232	2.45	10	02/19/25 00:37	SMB	L800697
4-Chloroaniline	<0.184	mg/Kg - dry	0.184	2.45	10	02/19/25 00:37	SMB	L800697
2-Chloronaphthalene	<0.134	mg/Kg - dry	0.134	2.45	10	02/19/25 00:37	SMB	L800697
2-Chlorophenol	<0.196	mg/Kg - dry	0.196	2.45	10	02/19/25 00:37	SMB	L800697
4-Chlorophenyl phenyl ether	<0.170	mg/Kg - dry	0.170	2.45	10	02/19/25 00:37	SMB	L800697
Chrysene	<0.158	mg/Kg - dry	0.158	0.962	10	02/19/25 00:37	SMB	L800697
Dibenz(a,h)anthracene	<0.164	mg/Kg - dry	0.164	0.962	10	02/19/25 00:37	SMB	L800697
Dibenzofuran	<0.209	mg/Kg - dry	0.209	2.45	10	02/19/25 00:37	SMB	L800697
1,2-Dichlorobenzene	<0.123	mg/Kg - dry	0.123	2.45	10	02/19/25 00:37	SMB	L800697
1,3-Dichlorobenzene	<0.129	mg/Kg - dry	0.129	2.45	10	02/19/25 00:37	SMB	L800697
1,4-Dichlorobenzene	<0.138	mg/Kg - dry	0.138	2.45	10	02/19/25 00:37	SMB	L800697
3,3'-Dichlorobenzidine	<1.59	mg/Kg - dry	1.59	4.76	10	02/19/25 00:37	SMB	L800697
2,4-Dichlorophenol	<0.220	mg/Kg - dry	0.220	2.45	10	02/19/25 00:37	SMB	L800697
Diethyl phthalate	<0.154	mg/Kg - dry	0.154	2.45	10	02/19/25 00:37	SMB	L800697
Dimethyl phthalate	<0.202	mg/Kg - dry	0.202	2.45	10	02/19/25 00:37	SMB	L800697
2,4-Dimethylphenol	<0.313	mg/Kg - dry	0.313	2.45	10	02/19/25 00:37	SMB	L800697
Di-n-butyl phthalate	<0.209	mg/Kg - dry	0.209	2.45	10	02/19/25 00:37	SMB	L800697
4,6-Dinitro-2-methylphenol	<0.128	mg/Kg - dry	0.128	4.76	10	02/19/25 00:37	SMB	L800697
2,4-Dinitrophenol	<0.137	mg/Kg - dry	0.137	4.76	10	02/19/25 00:37	SMB	L800697

**Qualifiers/
Definitions**

* Outside QC Limit
E Result above calibration range
M Minimum value

DF Dilution Factor
J Estimated value
MQL Method Quantitation Limit

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 132
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0008**

REPORT OF ANALYSIS

Lab No : **91630**

Matrix: **Solids**

Sample ID : **T1-1**

Sampled: **1/30/2025 16:30**

Analytical Method: 8270E

Prep Batch(es): **L799905** 02/13/25 11:38

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
2,4-Dinitrotoluene	<0.160	mg/Kg - dry	0.160	2.45	10	02/19/25 00:37	SMB	L800697
2,6-Dinitrotoluene	<0.167	mg/Kg - dry	0.167	2.45	10	02/19/25 00:37	SMB	L800697
Di-n-Octyl Phthalate	<0.318	mg/Kg - dry	0.318	2.45	10	02/19/25 00:37	SMB	L800697
Fluoranthene	<0.144	mg/Kg - dry	0.144	0.962	10	02/19/25 00:37	SMB	L800697
Fluorene	3.80	mg/Kg - dry	0.226	0.962	10	02/19/25 00:37	SMB	L800697
Hexachlorobenzene	<0.157	mg/Kg - dry	0.157	2.45	10	02/19/25 00:37	SMB	L800697
Hexachlorobutadiene	<0.141	mg/Kg - dry	0.141	2.45	10	02/19/25 00:37	SMB	L800697
Hexachloroethane	<0.152	mg/Kg - dry	0.152	2.45	10	02/19/25 00:37	SMB	L800697
Indeno(1,2,3-cd)pyrene	<0.255	mg/Kg - dry	0.255	0.962	10	02/19/25 00:37	SMB	L800697
Isophorone	<0.161	mg/Kg - dry	0.161	2.45	10	02/19/25 00:37	SMB	L800697
1-Methylnaphthalene	13.5	mg/Kg - dry	0.240	0.962	10	02/19/25 00:37	SMB	L800697
2-Methylnaphthalene	14.6	mg/Kg - dry	0.141	0.962	10	02/19/25 00:37	SMB	L800697
2-Methylphenol	<0.222	mg/Kg - dry	0.222	2.45	10	02/19/25 00:37	SMB	L800697
3&4 Methylphenol	<0.209	mg/Kg - dry	0.209	2.45	10	02/19/25 00:37	SMB	L800697
Naphthalene	8.51	mg/Kg - dry	0.157	0.962	10	02/19/25 00:37	SMB	L800697
2-Nitroaniline	<0.245	mg/Kg - dry	0.245	2.45	10	02/19/25 00:37	SMB	L800697
3-Nitroaniline	<0.138	mg/Kg - dry	0.138	4.76	10	02/19/25 00:37	SMB	L800697
4-Nitroaniline	<0.174	mg/Kg - dry	0.174	2.45	10	02/19/25 00:37	SMB	L800697
Nitrobenzene	<0.092	mg/Kg - dry	0.092	2.45	10	02/19/25 00:37	SMB	L800697
2-Nitrophenol	<0.240	mg/Kg - dry	0.240	2.45	10	02/19/25 00:37	SMB	L800697
4-Nitrophenol	<0.197	mg/Kg - dry	0.197	2.45	10	02/19/25 00:37	SMB	L800697
N-Nitrosodimethylamine	<0.081	mg/Kg - dry	0.081	2.45	10	02/19/25 00:37	SMB	L800697

**Qualifiers/
Definitions**

*
E
M

Outside QC Limit
Result above calibration range
Minimum value

DF
J
MQL

Dilution Factor
Estimated value
Method Quantitation Limit

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 132
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0008**

REPORT OF ANALYSIS

Lab No : **91630**

Matrix: **Solids**

Sample ID : **T1-1**

Sampled: **1/30/2025 16:30**

Analytical Method: 8270E

Prep Batch(es): **L799905** 02/13/25 11:38

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
N-Nitrosodiphenylamine	<0.180	mg/Kg - dry	0.180	4.76	10	02/19/25 00:37	SMB	L800697
N-Nitroso-di-n-propylamine	<0.150	mg/Kg - dry	0.150	2.45	10	02/19/25 00:37	SMB	L800697
Pentachlorophenol	<0.268	mg/Kg - dry	0.268	4.76	10	02/19/25 00:37	SMB	L800697
Phenanthrene	6.38	mg/Kg - dry	0.199	0.962	10	02/19/25 00:37	SMB	L800697
Phenol	<0.294	mg/Kg - dry	0.294	2.45	10	02/19/25 00:37	SMB	L800697
Pyrene	2.25	mg/Kg - dry	0.180	0.962	10	02/19/25 00:37	SMB	L800697
Pyridine	<0.225	mg/Kg - dry	0.225	4.76	10	02/19/25 00:37	SMB	L800697
1,2,4-Trichlorobenzene	<0.147	mg/Kg - dry	0.147	2.45	10	02/19/25 00:37	SMB	L800697
2,4,5-Trichlorophenol	<0.288	mg/Kg - dry	0.288	2.45	10	02/19/25 00:37	SMB	L800697
2,4,6-Trichlorophenol	<0.213	mg/Kg - dry	0.213	2.45	10	02/19/25 00:37	SMB	L800697
Surrogate: 2-Fluorobiphenyl	78.9		Limits: 20-79%		10	02/19/25 00:37	SMB	L800697
Surrogate: 2-Fluorophenol	45.3		Limits: 10-85%		10	02/19/25 00:37	SMB	L800697
Surrogate: Nitrobenzene-d5	57.7		Limits: 22-72%		10	02/19/25 00:37	SMB	L800697
Surrogate: Phenol-d6	53.8		Limits: 10-96%		10	02/19/25 00:37	SMB	L800697
Surrogate: 4-Terphenyl-d14	58.0		Limits: 22-104%		10	02/19/25 00:37	SMB	L800697
Surrogate: 2,4,6-Tribromophenol	85.5		Limits: 10-112%		10	02/19/25 00:37	SMB	L800697

**Qualifiers/
Definitions**

*	Outside QC Limit	DF	Dilution Factor
E	Result above calibration range	J	Estimated value
M	Minimum value	MQL	Method Quantitation Limit

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 132
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0008**

REPORT OF ANALYSIS

Lab No : **91630**

Matrix: **Solids**

Sample ID : **T1-1**

Sampled: **1/30/2025 16:30**

Analytical Method: MADEP-EPH **Prep Batch(es):** **L799927** 02/13/25 13:00

Prep Method: MAEPH (Prep)

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Aliphatic C9-C18	3300	mg/Kg - dry	170	433	100	02/24/25 14:35	MMK	L800398
Aliphatic C19-C36	1590	mg/Kg - dry	137	577	100	02/24/25 14:35	MMK	L800398
Aromatic C11-C22	369	mg/Kg - dry	57.0	123	10	02/24/25 11:42	MMK	L800398
Surrogate: 2-Fluorobiphenyl	126		Limits: 40-140%		10	02/24/25 11:42		MADEP-EPH
Surrogate: Chlorooctadecane	66.7		Limits: 40-140%		10	02/24/25 14:14		MADEP-EPH
Surrogate: OTP Surrogate	57.9		Limits: 40-140%		10	02/24/25 11:42		MADEP-EPH

Analytical Method: MADEP-VPH **Prep Batch(es):** **V56312** 02/14/25 15:06

Prep Method: MAVPH (Prep)

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Aliphatic C5-C8	<8.77	mg/Kg - dry	8.77	57.7	500	02/14/25 18:16	BLJ	V56313
Aliphatic C9-C12	785	mg/Kg - dry	32.9	57.7	500	02/14/25 18:16	BLJ	V56313
Aromatic C9-C10	274	mg/Kg - dry	4.50	57.7	500	02/14/25 18:16	BLJ	V56313
Surrogate: 2,5-Dibromotoluene (FID)	81.7		Limits: 70-130%		500	02/14/25 18:16	BLJ	MADEP-VPH
Surrogate: 2,5-Dibromotoluene (PID)	76.9		Limits: 70-130%		500	02/14/25 18:16	BLJ	MADEP-VPH

**Qualifiers/
Definitions**

*	Outside QC Limit	DF	Dilution Factor
E	Result above calibration range	J	Estimated value
M	Minimum value	MQL	Method Quantitation Limit

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 132
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0008**

REPORT OF ANALYSIS

Lab No : **91631**

Matrix: **Solids**

Sample ID : **T1-2**

Sampled: **1/30/2025 16:35**

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Method
Moisture	23.6	%			1	02/05/25 14:16	CJR	SW-DRYWT

**Qualifiers/
Definitions**

*	Outside QC Limit	DF	Dilution Factor
E	Result above calibration range	J	Estimated value
M	Minimum value	MQL	Method Quantitation Limit

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 132
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0008**

REPORT OF ANALYSIS

Lab No : **91631**

Matrix: **Solids**

Sample ID : **T1-2**

Sampled: **1/30/2025 16:35**

Analytical Method: 8015C DRO

Prep Batch(es): **L798453** 02/06/25 08:00

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Diesel Range Organics (C10-C28)	49.1	mg/Kg - dry	24.9	43.6	10	02/07/25 22:11	MMK	L798798
Surrogate: OTP Surrogate	147		Limits: 50-150%		10	02/07/25 22:11		8015C DRO

Analytical Method: 8015C GRO

Prep Batch(es): **V56114** 02/07/25 16:47

Prep Method: 5035 MED

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Gasoline Range Organics (C6-C10)	<2.71	mg/Kg - dry	2.71	6.54	50	02/07/25 19:38	BLJ	V56115
Surrogate: a,a,a-Trifluorotoluene	70.6		Limits: 50-137%		50	02/07/25 19:38	BLJ	8015C GRO

**Qualifiers/
Definitions**

*	Outside QC Limit	DF	Dilution Factor
E	Result above calibration range	J	Estimated value
M	Minimum value	MQL	Method Quantitation Limit

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 132
Report No: 25-034-0008

QC Prep:	L798453	QC Analytical Batch(es):	L798798
QC Prep Batch Method:	3546	Analysis Method:	8015C DRO
		Analysis Description:	Total Petroleum Hydrocarbons - Extractable

Lab Reagent Blank LRB-L798453 Matrix: SOL
Associated Lab Samples: 91630, 91631

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Diesel Range Organics (C10-C28)	mg/Kg	<1.90	1.90	3.33	02/08/25 22:41		
OTP Surrogate (S)					02/08/25 22:41	117	50-150

Laboratory Control Sample LCS-L798453

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Diesel Range Organics (C10-C28)	mg/Kg	33.3	43.2	130	50-150
OTP Surrogate (S)				146	50-150

Matrix Spike & Matrix Spike Duplicate V 91644-MS-L798453 V 91644-MSD-L798453

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Diesel Range Organics (C10-C28)	mg/Kg	4.06	33.0	32.6	38.3	42.7	104	119	50-150	10.8	30
OTP Surrogate (S)							125	144	50-150		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 132
Report No: 25-034-0008

QC Prep:	V56114	QC Analytical Batch(es):	V56115
QC Prep Batch Method:	5035 MED	Analysis Method:	8015C GRO
		Analysis Description:	Total Petroleum Hydrocarbons - Volatile

Lab Reagent Blank LRB-V56114 Matrix: SOL
Associated Lab Samples: 91630, 91631

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Gasoline Range Organics (C6-C10)	mg/Kg	<2.07	2.07	5.00	02/07/25 18:41		
a,a,a-Trifluorotoluene (S)					02/07/25 18:41	98.2	50-137

Laboratory Control Sample & LCSD LCS-V56114 LCSD-V56114

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Gasoline Range Organics (C6-C10)	mg/Kg	50.0	48.2	47.0	96.4	94.0	41-138	2.5	20
a,a,a-Trifluorotoluene (S)					96.4	91.6	50-137		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 132
Report No: 25-034-0008

QC Prep: V56274
QC Prep Batch Method: 5035
QC Analytical Batch(es): V56279
Analysis Method: 8260D
Analysis Description: Volatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-V56274 Matrix: SOL
Associated Lab Samples: 91630

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Acetone	mg/Kg	<0.002	0.002	0.020	02/13/25 19:35		
Acrolein	mg/Kg	<0.001	0.001	0.020	02/13/25 19:35		
Acrylonitrile	mg/Kg	<0.0008	0.0008	0.020	02/13/25 19:35		
Benzene	mg/Kg	<0.0006	0.0006	0.005	02/13/25 19:35		
Bromobenzene	mg/Kg	<0.0005	0.0005	0.005	02/13/25 19:35		
Bromochloromethane	mg/Kg	<0.0008	0.0008	0.005	02/13/25 19:35		
Bromodichloromethane	mg/Kg	<0.001	0.001	0.005	02/13/25 19:35		
Bromoform	mg/Kg	<0.001	0.001	0.005	02/13/25 19:35		
Bromomethane	mg/Kg	<0.001	0.001	0.010	02/13/25 19:35		
n-Butylbenzene	mg/Kg	<0.0005	0.0005	0.005	02/13/25 19:35		
sec-Butyl benzene	mg/Kg	<0.0006	0.0006	0.005	02/13/25 19:35		
tert-Butyl benzene	mg/Kg	<0.0005	0.0005	0.005	02/13/25 19:35		
Carbon Disulfide	mg/Kg	<0.0006	0.0006	0.005	02/13/25 19:35		
Carbon Tetrachloride	mg/Kg	<0.001	0.001	0.005	02/13/25 19:35		
Chlorobenzene	mg/Kg	<0.0007	0.0007	0.005	02/13/25 19:35		
Chlorodibromomethane	mg/Kg	<0.0009	0.0009	0.005	02/13/25 19:35		
Chloroethane	mg/Kg	<0.0009	0.0009	0.010	02/13/25 19:35		
Chloroform	mg/Kg	<0.001	0.001	0.005	02/13/25 19:35		
Chloromethane	mg/Kg	<0.0006	0.0006	0.010	02/13/25 19:35		
2-Chlorotoluene	mg/Kg	<0.0005	0.0005	0.005	02/13/25 19:35		
4-Chlorotoluene	mg/Kg	<0.0004	0.0004	0.005	02/13/25 19:35		
Di-Isopropyl Ether (DIPE)	mg/Kg	<0.0007	0.0007	0.005	02/13/25 19:35		
1,2-Dibromo-3-Chloropropane	mg/Kg	<0.0004	0.0004	0.010	02/13/25 19:35		
1,2-Dibromoethane	mg/Kg	<0.0006	0.0006	0.005	02/13/25 19:35		
Dibromomethane	mg/Kg	<0.0006	0.0006	0.005	02/13/25 19:35		
1,2-Dichlorobenzene	mg/Kg	<0.0003	0.0003	0.005	02/13/25 19:35		
1,3-Dichlorobenzene	mg/Kg	<0.0004	0.0004	0.005	02/13/25 19:35		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 132
Report No: 25-034-0008

QC Prep: V56274
QC Prep Batch Method: 5035
QC Analytical Batch(es): V56279
Analysis Method: 8260D
Analysis Description: Volatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-V56274 Matrix: SOL
Associated Lab Samples: 91630

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
1,4-Dichlorobenzene	mg/Kg	<0.0006	0.0006	0.005	02/13/25 19:35		
Dichlorodifluoromethane	mg/Kg	<0.001	0.001	0.010	02/13/25 19:35		
1,1-Dichloroethane	mg/Kg	<0.0008	0.0008	0.005	02/13/25 19:35		
1,2-Dichloroethane	mg/Kg	<0.001	0.001	0.005	02/13/25 19:35		
1,1-Dichloroethene	mg/Kg	<0.0007	0.0007	0.005	02/13/25 19:35		
cis-1,2-Dichloroethene	mg/Kg	<0.0008	0.0008	0.005	02/13/25 19:35		
trans-1,2-Dichloroethene	mg/Kg	<0.001	0.001	0.005	02/13/25 19:35		
1,2-Dichloropropane	mg/Kg	<0.0004	0.0004	0.005	02/13/25 19:35		
1,3-Dichloropropane	mg/Kg	<0.0006	0.0006	0.005	02/13/25 19:35		
2,2-Dichloropropane	mg/Kg	<0.001	0.001	0.005	02/13/25 19:35		
1,1-Dichloropropene	mg/Kg	<0.0008	0.0008	0.005	02/13/25 19:35		
cis-1,3-Dichloropropene	mg/Kg	<0.0005	0.0005	0.005	02/13/25 19:35		
trans-1,3-Dichloropropene	mg/Kg	<0.0008	0.0008	0.005	02/13/25 19:35		
Ethanol	mg/Kg	<0.014	0.014	0.250	02/13/25 19:35		
Ethylbenzene	mg/Kg	<0.0006	0.0006	0.005	02/13/25 19:35		
Ethyl Tertiary Butyl Ether (ETBE)	mg/Kg	<0.0008	0.0008	0.050	02/13/25 19:35		
Hexachlorobutadiene	mg/Kg	<0.0008	0.0008	0.010	02/13/25 19:35		
n-Hexane	mg/Kg	<0.0007	0.0007	0.010	02/13/25 19:35		
2-Hexanone	mg/Kg	<0.0006	0.0006	0.020	02/13/25 19:35		
Isopropylbenzene	mg/Kg	<0.0005	0.0005	0.005	02/13/25 19:35		
4-Isopropyl toluene	mg/Kg	<0.001	0.001	0.005	02/13/25 19:35		
Methyl Ethyl Ketone (MEK)	mg/Kg	<0.0007	0.0007	0.020	02/13/25 19:35		
Methyl tert-butyl ether (MTBE)	mg/Kg	<0.0006	0.0006	0.005	02/13/25 19:35		
4-Methyl-2-Pentanone	mg/Kg	<0.015	0.015	0.020	02/13/25 19:35		
Methylene Chloride	mg/Kg	<0.001	0.001	0.010	02/13/25 19:35		
Naphthalene	mg/Kg	<0.0010	0.0010	0.010	02/13/25 19:35		
n-Propylbenzene	mg/Kg	<0.0005	0.0005	0.005	02/13/25 19:35		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 132
Report No: 25-034-0008

QC Prep: V56274
QC Prep Batch Method: 5035
QC Analytical Batch(es): V56279
Analysis Method: 8260D
Analysis Description: Volatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-V56274 Matrix: SOL
Associated Lab Samples: 91630

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Styrene	mg/Kg	<0.001	0.001	0.005	02/13/25 19:35		
1,1,1,2-Tetrachloroethane	mg/Kg	<0.001	0.001	0.005	02/13/25 19:35		
1,1,2,2-Tetrachloroethane	mg/Kg	<0.0003	0.0003	0.005	02/13/25 19:35		
Tetrachloroethene	mg/Kg	<0.0009	0.0009	0.005	02/13/25 19:35		
Toluene	mg/Kg	<0.0007	0.0007	0.005	02/13/25 19:35		
1,2,3-Trichlorobenzene	mg/Kg	<0.0005	0.0005	0.010	02/13/25 19:35		
1,2,4-Trichlorobenzene	mg/Kg	<0.0006	0.0006	0.010	02/13/25 19:35		
1,1,1-Trichloroethane	mg/Kg	<0.001	0.001	0.005	02/13/25 19:35		
1,1,2-Trichloroethane	mg/Kg	<0.0005	0.0005	0.005	02/13/25 19:35		
Trichloroethene	mg/Kg	<0.0009	0.0009	0.005	02/13/25 19:35		
Trichlorofluoromethane	mg/Kg	<0.002	0.002	0.010	02/13/25 19:35		
1,2,3-Trichloropropane	mg/Kg	<0.0007	0.0007	0.005	02/13/25 19:35		
1,2,4-Trimethylbenzene	mg/Kg	<0.0005	0.0005	0.005	02/13/25 19:35		
1,3,5-Trimethylbenzene	mg/Kg	<0.0005	0.0005	0.005	02/13/25 19:35		
Vinyl Acetate	mg/Kg	<0.0005	0.0005	0.010	02/13/25 19:35		
Vinyl Chloride	mg/Kg	<0.0005	0.0005	0.010	02/13/25 19:35		
o-Xylene	mg/Kg	<0.0005	0.0005	0.005	02/13/25 19:35		
m,p-Xylene	mg/Kg	<0.001	0.001	0.010	02/13/25 19:35		
4-Bromofluorobenzene (S)					02/13/25 19:35	103	70-130
Dibromofluoromethane (S)					02/13/25 19:35	113	70-130
Toluene-d8 (S)					02/13/25 19:35	100	70-130

Laboratory Control Sample & LCSD LCS-V56274 LCSD-V56274

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Acetone	mg/Kg	0.200	0.276	0.262	138	131	29-198	5.2	20

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 132
Report No: 25-034-0008

QC Prep: V56274
QC Prep Batch Method: 5035
QC Analytical Batch(es): V56279
Analysis Method: 8260D
Analysis Description: Volatile Organic Compounds - GC/MS

Laboratory Control Sample & LCSD LCS-V56274 LCSD-V56274

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Acrolein	mg/Kg	0.200	0.379	0.361	190*	181*	70-130	4.8	20
Acrylonitrile	mg/Kg	0.200	0.322	0.368	161*	184*	65-134	13.3	20
Benzene	mg/Kg	0.100	0.100	0.105	100	105	74-127	4.8	20
Bromobenzene	mg/Kg	0.100	0.091	0.094	91.3	94.1	73-125	3.0	20
Bromochloromethane	mg/Kg	0.100	0.124	0.134	124	134	72-134	7.7	20
Bromodichloromethane	mg/Kg	0.100	0.122	0.129	122	129*	75-122	5.5	20
Bromoform	mg/Kg	0.100	0.122	0.128	122	128	66-135	4.8	20
Bromomethane	mg/Kg	0.100	0.104	0.104	104	104	20-180	0.0	20
n-Butylbenzene	mg/Kg	0.100	0.061	0.060	61.6*	60.7*	65-135	1.4	20
sec-Butyl benzene	mg/Kg	0.100	0.067	0.069	67.2	69.7	66-131	3.6	20
tert-Butyl benzene	mg/Kg	0.100	0.069	0.071	69.5	71.3	67-132	2.5	20
Carbon Disulfide	mg/Kg	0.100	0.078	0.090	78.0	90.6	61-129	14.9	20
Carbon Tetrachloride	mg/Kg	0.100	0.093	0.094	93.2	94.1	64-143	0.9	20
Chlorobenzene	mg/Kg	0.100	0.086	0.089	86.9	89.6	74-118	3.0	20
Chlorodibromomethane	mg/Kg	0.100	0.138	0.147	138*	147*	73-122	6.3	20
Chloroethane	mg/Kg	0.100	0.087	0.091	87.6	91.1	33-149	3.9	20
Chloroform	mg/Kg	0.100	0.106	0.110	106	110	73-127	3.7	20
Chloromethane	mg/Kg	0.100	0.091	0.076	91.2	76.7	45-143	17.2	20
2-Chlorotoluene	mg/Kg	0.100	0.081	0.082	81.5	82.9	67-124	1.7	20
4-Chlorotoluene	mg/Kg	0.100	0.084	0.089	84.8	89.9	71-126	5.8	20
Di-Isopropyl Ether (DIPE)	mg/Kg	0.100	0.116	0.119	116	119	59-159	2.5	20
1,2-Dibromo-3-Chloropropane	mg/Kg	0.100	0.124	0.131	124	131	55-157	5.4	20
1,2-Dibromoethane	mg/Kg	0.100	0.154	0.167	154*	167*	70-132	8.0	20
Dibromomethane	mg/Kg	0.100	0.144	0.157	144*	157*	74-133	8.6	20
1,2-Dichlorobenzene	mg/Kg	0.100	0.092	0.092	92.0	92.8	72-123	0.8	20
1,3-Dichlorobenzene	mg/Kg	0.100	0.081	0.080	81.7	80.9	71-120	0.9	20

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 132
Report No: 25-034-0008

QC Prep: V56274
QC Prep Batch Method: 5035
QC Analytical Batch(es): V56279
Analysis Method: 8260D
Analysis Description: Volatile Organic Compounds - GC/MS

Laboratory Control Sample & LCSD LCS-V56274 LCSD-V56274

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
1,4-Dichlorobenzene	mg/Kg	0.100	0.082	0.082	82.4	82.6	71-123	0.2	20
Dichlorodifluoromethane	mg/Kg	0.100	0.082	0.061	82.6	61.7	26-146	28.9*	20
1,1-Dichloroethane	mg/Kg	0.100	0.097	0.100	97.1	100	74-127	2.9	20
1,2-Dichloroethane	mg/Kg	0.100	0.134	0.144	134*	144*	68-128	7.1	20
1,1-Dichloroethene	mg/Kg	0.100	0.075	0.080	75.4	80.7	67-149	6.7	20
cis-1,2-Dichloroethene	mg/Kg	0.100	0.106	0.112	106	112	76-134	5.5	20
trans-1,2-Dichloroethene	mg/Kg	0.100	0.088	0.091	88.3	91.4	73-132	3.4	20
1,2-Dichloropropane	mg/Kg	0.100	0.116	0.119	116	119	73-130	2.5	20
1,3-Dichloropropane	mg/Kg	0.100	0.141	0.152	141*	152*	75-124	7.5	20
2,2-Dichloropropane	mg/Kg	0.100	0.083	0.088	83.8	88.2	50-142	5.1	20
1,1-Dichloropropene	mg/Kg	0.100	0.080	0.080	80.3	80.0	71-130	0.3	20
cis-1,3-Dichloropropene	mg/Kg	0.100	0.124	0.130	124	130*	71-125	4.7	20
trans-1,3-Dichloropropene	mg/Kg	0.100	0.137	0.145	137*	145*	68-123	5.6	20
Ethanol	mg/Kg	2.50	4.23	3.99	169*	160*	70-130	5.8	20
Ethylbenzene	mg/Kg	0.100	0.077	0.076	77.4	76.6	74-128	1.0	20
Ethyl Tertiary Butyl Ether (ETBE)	mg/Kg	0.200	0.260	0.263	130	132*	70-130	1.1	20
Hexachlorobutadiene	mg/Kg	0.100	0.062	0.062	62.5*	62.6*	64-125	0.1	20
n-Hexane	mg/Kg	0.100	0.085	0.094	85.6	94.1	70-130	9.4	20
2-Hexanone	mg/Kg	0.100	0.157	0.165	157	165*	61-157	4.9	20
Isopropylbenzene	mg/Kg	0.100	0.071	0.080	71.7	80.5	68-126	11.5	20
4-Isopropyl toluene	mg/Kg	0.100	0.070	0.070	70.5	70.9	68-129	0.5	20
Methyl Ethyl Ketone (MEK)	mg/Kg	0.100	0.128	0.140	128	140	63-149	8.9	20
Methyl tert-butyl ether (MTBE)	mg/Kg	0.100	0.146	0.150	146*	150*	70-130	2.7	20
4-Methyl-2-Pentanone	mg/Kg	0.100	0.170	0.200	170*	200*	57-162	16.2	20
Methylene Chloride	mg/Kg	0.100	0.116	0.121	116	121	74-129	4.2	20
Naphthalene	mg/Kg	0.100	0.127	0.118	127	118	57-157	7.3	20

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 132
Report No: 25-034-0008

QC Prep:	V56274	QC Analytical Batch(es):	V56279
QC Prep Batch Method:	5035	Analysis Method:	8260D
		Analysis Description:	Volatile Organic Compounds - GC/MS

Laboratory Control Sample & LCSD LCS-V56274 LCSD-V56274

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
n-Propylbenzene	mg/Kg	0.100	0.072	0.074	72.1	74.0	67-130	2.6	20
Styrene	mg/Kg	0.100	0.094	0.096	94.8	96.0	77-121	1.2	20
1,1,1,2-Tetrachloroethane	mg/Kg	0.100	0.096	0.102	96.4	102	72-115	5.6	20
1,1,2,2-Tetrachloroethane	mg/Kg	0.100	0.129	0.137	129*	137*	56-126	6.0	20
Tetrachloroethene	mg/Kg	0.100	0.085	0.088	85.2	88.0	68-130	3.2	20
Toluene	mg/Kg	0.100	0.096	0.101	96.7	101	71-129	4.3	20
1,2,3-Trichlorobenzene	mg/Kg	0.100	0.119	0.111	119	111	68-130	6.9	20
1,2,4-Trichlorobenzene	mg/Kg	0.100	0.103	0.096	103	96.9	66-125	6.1	20
1,1,1-Trichloroethane	mg/Kg	0.100	0.083	0.087	83.4	87.2	67-131	4.4	20
1,1,2-Trichloroethane	mg/Kg	0.100	0.148	0.159	148*	159*	70-133	7.1	20
Trichloroethene	mg/Kg	0.100	0.091	0.092	91.1	92.5	75-133	1.5	20
Trichlorofluoromethane	mg/Kg	0.100	0.078	0.070	78.4	70.0	44-146	11.3	20
1,2,3-Trichloropropane	mg/Kg	0.100	0.116	0.129	116	129	60-137	10.6	20
1,2,4-Trimethylbenzene	mg/Kg	0.100	0.082	0.082	82.2	82.6	69-129	0.4	20
1,3,5-Trimethylbenzene	mg/Kg	0.100	0.075	0.076	75.2	76.0	69-128	1.0	20
Vinyl Acetate	mg/Kg	0.100	0.155	0.165	155*	165*	60-140	6.2	20
Vinyl Chloride	mg/Kg	0.100	0.083	0.071	83.5	71.5	48-147	15.4	20
o-Xylene	mg/Kg	0.100	0.081	0.085	81.6	85.4	74-126	4.5	20
m,p-Xylene	mg/Kg	0.200	0.161	0.161	80.5	80.5	75-124	0.0	20
4-Bromofluorobenzene (S)					112	112	70-130		
Dibromofluoromethane (S)					122	128	70-130		
Toluene-d8 (S)					109	114	70-130		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 132
Report No: 25-034-0008

QC Prep: L799905
QC Prep Batch Method: 3546
QC Analytical Batch(es): L800697
Analysis Method: 8270E
Analysis Description: Semivolatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-L799905 Matrix: SOL
Associated Lab Samples: 91630

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Acenaphthene	mg/Kg	<0.010	0.010	0.066	02/17/25 17:54		
Acenaphthylene	mg/Kg	<0.011	0.011	0.066	02/17/25 17:54		
Aniline	mg/Kg	<0.004	0.004	0.170	02/17/25 17:54		
Anthracene	mg/Kg	<0.013	0.013	0.066	02/17/25 17:54		
Benzo(a)anthracene	mg/Kg	<0.008	0.008	0.066	02/17/25 17:54		
Benzo(a)pyrene	mg/Kg	<0.010	0.010	0.066	02/17/25 17:54		
Benzo(b)fluoranthene	mg/Kg	<0.008	0.008	0.066	02/17/25 17:54		
Benzo(g,h,i)perylene	mg/Kg	<0.013	0.013	0.066	02/17/25 17:54		
Benzo(k)fluoranthene	mg/Kg	<0.011	0.011	0.066	02/17/25 17:54		
Benzoic Acid	mg/Kg	<0.016	0.016	0.330	02/17/25 17:54		
Benzyl alcohol	mg/Kg	<0.021	0.021	0.330	02/17/25 17:54		
Bis(2-Chloroethoxy)methane	mg/Kg	<0.011	0.011	0.170	02/17/25 17:54		
Bis(2-Chloroethyl)ether	mg/Kg	<0.006	0.006	0.170	02/17/25 17:54		
Bis(2-Chloroisopropyl)ether	mg/Kg	<0.021	0.021	0.170	02/17/25 17:54		
Bis(2-ethylhexyl)phthalate	mg/Kg	<0.015	0.015	0.330	02/17/25 17:54		
4-Bromophenyl phenyl ether	mg/Kg	<0.015	0.015	0.170	02/17/25 17:54		
Butyl benzyl phthalate	mg/Kg	<0.017	0.017	0.170	02/17/25 17:54		
4-Chloro-3-methylphenol	mg/Kg	<0.016	0.016	0.170	02/17/25 17:54		
4-Chloroaniline	mg/Kg	<0.012	0.012	0.170	02/17/25 17:54		
2-Chloronaphthalene	mg/Kg	<0.009	0.009	0.170	02/17/25 17:54		
2-Chlorophenol	mg/Kg	<0.013	0.013	0.170	02/17/25 17:54		
4-Chlorophenyl phenyl ether	mg/Kg	<0.011	0.011	0.170	02/17/25 17:54		
Chrysene	mg/Kg	<0.011	0.011	0.066	02/17/25 17:54		
Dibenz(a,h)anthracene	mg/Kg	<0.011	0.011	0.066	02/17/25 17:54		
Dibenzofuran	mg/Kg	<0.014	0.014	0.170	02/17/25 17:54		
1,2-Dichlorobenzene	mg/Kg	<0.008	0.008	0.170	02/17/25 17:54		
1,3-Dichlorobenzene	mg/Kg	<0.008	0.008	0.170	02/17/25 17:54		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 132
Report No: 25-034-0008

QC Prep: L799905 **QC Analytical Batch(es):** L800697
QC Prep Batch Method: 3546 **Analysis Method:** 8270E
Analysis Description: Semivolatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-L799905 Matrix: SOL
Associated Lab Samples: 91630

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
1,4-Dichlorobenzene	mg/Kg	<0.009	0.009	0.170	02/17/25 17:54		
3,3'-Dichlorobenzidine	mg/Kg	<0.110	0.110	0.330	02/17/25 17:54		
2,4-Dichlorophenol	mg/Kg	<0.015	0.015	0.170	02/17/25 17:54		
Diethyl phthalate	mg/Kg	<0.010	0.010	0.170	02/17/25 17:54		
Dimethyl phthalate	mg/Kg	<0.014	0.014	0.170	02/17/25 17:54		
2,4-Dimethylphenol	mg/Kg	<0.021	0.021	0.170	02/17/25 17:54		
Di-n-butyl phthalate	mg/Kg	<0.014	0.014	0.170	02/17/25 17:54		
4,6-Dinitro-2-methylphenol	mg/Kg	<0.008	0.008	0.330	02/17/25 17:54		
2,4-Dinitrophenol	mg/Kg	<0.009	0.009	0.330	02/17/25 17:54		
2,4-Dinitrotoluene	mg/Kg	<0.011	0.011	0.170	02/17/25 17:54		
2,6-Dinitrotoluene	mg/Kg	<0.011	0.011	0.170	02/17/25 17:54		
Di-n-Octyl Phthalate	mg/Kg	<0.022	0.022	0.170	02/17/25 17:54		
Fluoranthene	mg/Kg	<0.010	0.010	0.066	02/17/25 17:54		
Fluorene	mg/Kg	<0.015	0.015	0.066	02/17/25 17:54		
Hexachlorobenzene	mg/Kg	<0.010	0.010	0.170	02/17/25 17:54		
Hexachlorobutadiene	mg/Kg	<0.009	0.009	0.170	02/17/25 17:54		
Hexachloroethane	mg/Kg	<0.010	0.010	0.170	02/17/25 17:54		
Indeno(1,2,3-cd)pyrene	mg/Kg	<0.017	0.017	0.066	02/17/25 17:54		
Isophorone	mg/Kg	<0.011	0.011	0.170	02/17/25 17:54		
1-Methylnaphthalene	mg/Kg	<0.016	0.016	0.066	02/17/25 17:54		
2-Methylnaphthalene	mg/Kg	<0.009	0.009	0.066	02/17/25 17:54		
2-Methylphenol	mg/Kg	<0.015	0.015	0.170	02/17/25 17:54		
3&4 Methylphenol	mg/Kg	<0.014	0.014	0.170	02/17/25 17:54		
Naphthalene	mg/Kg	<0.010	0.010	0.066	02/17/25 17:54		
2-Nitroaniline	mg/Kg	<0.017	0.017	0.170	02/17/25 17:54		
3-Nitroaniline	mg/Kg	<0.009	0.009	0.330	02/17/25 17:54		
4-Nitroaniline	mg/Kg	<0.012	0.012	0.170	02/17/25 17:54		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 132
Report No: 25-034-0008

QC Prep: L799905 **QC Analytical Batch(es):** L800697
QC Prep Batch Method: 3546 **Analysis Method:** 8270E
Analysis Description: Semivolatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-L799905 Matrix: SOL
Associated Lab Samples: 91630

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Nitrobenzene	mg/Kg	<0.006	0.006	0.170	02/17/25 17:54		
2-Nitrophenol	mg/Kg	<0.016	0.016	0.170	02/17/25 17:54		
4-Nitrophenol	mg/Kg	<0.013	0.013	0.170	02/17/25 17:54		
N-Nitrosodimethylamine	mg/Kg	<0.005	0.005	0.170	02/17/25 17:54		
N-Nitrosodiphenylamine	mg/Kg	<0.012	0.012	0.330	02/17/25 17:54		
N-Nitroso-di-n-propylamine	mg/Kg	<0.010	0.010	0.170	02/17/25 17:54		
Pentachlorophenol	mg/Kg	<0.018	0.018	0.330	02/17/25 17:54		
Phenanthrene	mg/Kg	<0.013	0.013	0.066	02/17/25 17:54		
Phenol	mg/Kg	<0.020	0.020	0.170	02/17/25 17:54		
Pyrene	mg/Kg	<0.012	0.012	0.066	02/17/25 17:54		
Pyridine	mg/Kg	<0.015	0.015	0.330	02/17/25 17:54		
1,2,4-Trichlorobenzene	mg/Kg	<0.010	0.010	0.170	02/17/25 17:54		
2,4,5-Trichlorophenol	mg/Kg	<0.020	0.020	0.170	02/17/25 17:54		
2,4,6-Trichlorophenol	mg/Kg	<0.014	0.014	0.170	02/17/25 17:54		
2-Fluorobiphenyl (S)					02/17/25 17:54	55.2	20-79
2-Fluorophenol (S)					02/17/25 17:54	52.5	10-85
Nitrobenzene-d5 (S)					02/17/25 17:54	52.5	22-72
Phenol-d6 (S)					02/17/25 17:54	56.1	10-96
4-Terphenyl-d14 (S)					02/17/25 17:54	54.9	22-104
2,4,6-Tribromophenol (S)					02/17/25 17:54	55.2	10-112

Laboratory Control Sample LCS-L799905

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Acenaphthene	mg/Kg	1.67	0.946	56.6	10-146
Acenaphthylene	mg/Kg	1.67	0.906	54.2	10-146
Aniline	mg/Kg	1.67	0.773	46.2	10-146

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 132
Report No: 25-034-0008

QC Prep:	L799905	QC Analytical Batch(es):	L800697
QC Prep Batch Method:	3546	Analysis Method:	8270E
		Analysis Description:	Semivolatile Organic Compounds - GC/MS

Laboratory Control Sample LCS-L799905

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Anthracene	mg/Kg	1.67	0.974	58.3	10-146
Benzo(a)anthracene	mg/Kg	1.67	0.964	57.7	10-146
Benzo(a)pyrene	mg/Kg	1.67	1.01	60.4	10-146
Benzo(b)fluoranthene	mg/Kg	1.67	1.07	64.0	10-146
Benzo(g,h,i)perylene	mg/Kg	1.67	1.17	70.0	10-146
Benzo(k)fluoranthene	mg/Kg	1.67	0.934	55.9	10-146
Benzoic Acid	mg/Kg	5.00	3.24	64.8	10-146
Benzyl alcohol	mg/Kg	1.67	1.01	60.4	10-146
Bis(2-Chloroethoxy)methane	mg/Kg	1.67	0.950	56.8	10-146
Bis(2-Chloroethyl)ether	mg/Kg	1.67	0.880	52.6	10-146
Bis(2-Chloroisopropyl)ether	mg/Kg	1.67	0.795	47.6	10-146
Bis(2-ethylhexyl)phthalate	mg/Kg	1.67	0.937	56.1	10-146
4-Bromophenyl phenyl ether	mg/Kg	1.67	0.985	58.9	10-146
Butyl benzyl phthalate	mg/Kg	1.67	1.05	62.8	10-146
4-Chloro-3-methylphenol	mg/Kg	1.67	1.13	67.6	10-146
4-Chloroaniline	mg/Kg	1.67	0.525	31.4	10-146
2-Chloronaphthalene	mg/Kg	1.67	0.943	56.4	10-146
2-Chlorophenol	mg/Kg	1.67	0.984	58.9	10-146
4-Chlorophenyl phenyl ether	mg/Kg	1.67	1.02	61.0	10-146
Chrysene	mg/Kg	1.67	0.946	56.6	10-146
Dibenz(a,h)anthracene	mg/Kg	1.67	1.29	77.2	10-146
Dibenzofuran	mg/Kg	1.67	1.03	61.6	10-146
1,2-Dichlorobenzene	mg/Kg	1.67	0.875	52.3	14-137
1,3-Dichlorobenzene	mg/Kg	1.67	0.835	50.0	14-134
1,4-Dichlorobenzene	mg/Kg	1.67	0.844	50.5	10-141
3,3'-Dichlorobenzidine	mg/Kg	3.33	1.92	57.6	10-146
2,4-Dichlorophenol	mg/Kg	1.67	1.06	63.4	10-146

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 132
Report No: 25-034-0008

QC Prep: L799905
QC Prep Batch Method: 3546
QC Analytical Batch(es): L800697
Analysis Method: 8270E
Analysis Description: Semivolatile Organic Compounds - GC/MS

Laboratory Control Sample LCS-L799905

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Diethyl phthalate	mg/Kg	1.67	1.03	61.6	10-146
Dimethyl phthalate	mg/Kg	1.67	0.993	59.4	10-146
2,4-Dimethylphenol	mg/Kg	1.67	1.03	61.6	10-146
Di-n-butyl phthalate	mg/Kg	1.67	1.06	63.4	10-146
4,6-Dinitro-2-methylphenol	mg/Kg	1.67	1.19	71.2	10-146
2,4-Dinitrophenol	mg/Kg	5.00	3.21	64.2	10-146
2,4-Dinitrotoluene	mg/Kg	1.67	1.12	67.0	10-146
2,6-Dinitrotoluene	mg/Kg	1.67	1.15	68.8	10-146
Di-n-Octyl Phthalate	mg/Kg	1.67	0.921	55.1	10-146
Fluoranthene	mg/Kg	1.67	1.13	67.6	10-146
Fluorene	mg/Kg	1.67	1.02	61.0	10-146
Hexachlorobenzene	mg/Kg	1.67	0.957	57.3	10-146
Hexachlorobutadiene	mg/Kg	1.67	0.911	54.5	33-151
Hexachloroethane	mg/Kg	1.67	0.862	51.6	10-146
Indeno(1,2,3-cd)pyrene	mg/Kg	1.67	1.14	68.2	10-146
Isophorone	mg/Kg	1.67	0.623	37.3	10-146
1-Methylnaphthalene	mg/Kg	1.67	0.955	57.1	10-146
2-Methylnaphthalene	mg/Kg	1.67	1.09	65.2	10-146
2-Methylphenol	mg/Kg	1.67	0.957	57.3	10-146
3&4 Methylphenol	mg/Kg	1.67	1.12	67.0	10-146
Naphthalene	mg/Kg	1.67	0.911	54.5	37-148
2-Nitroaniline	mg/Kg	1.67	1.19	71.2	10-146
3-Nitroaniline	mg/Kg	1.67	0.706	42.2	10-146
4-Nitroaniline	mg/Kg	1.67	1.30	77.8	10-146
Nitrobenzene	mg/Kg	1.67	0.949	56.8	10-146
2-Nitrophenol	mg/Kg	1.67	1.00	59.8	10-146
4-Nitrophenol	mg/Kg	1.67	1.17	70.0	10-146

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 132
Report No: 25-034-0008

QC Prep: L799905
QC Prep Batch Method: 3546
QC Analytical Batch(es): L800697
Analysis Method: 8270E
Analysis Description: Semivolatile Organic Compounds - GC/MS

Laboratory Control Sample LCS-L799905

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
N-Nitrosodimethylamine	mg/Kg	1.67	0.897	53.7	10-146
N-Nitrosodiphenylamine	mg/Kg	1.67	0.844	50.5	10-146
N-Nitroso-di-n-propylamine	mg/Kg	1.67	0.877	52.5	10-146
Pentachlorophenol	mg/Kg	1.67	0.974	58.3	10-146
Phenanthrene	mg/Kg	1.67	0.983	58.8	10-146
Phenol	mg/Kg	1.67	0.984	58.9	10-146
Pyrene	mg/Kg	1.67	0.990	59.2	10-146
Pyridine	mg/Kg	1.67	0.688	41.1	10-146
1,2,4-Trichlorobenzene	mg/Kg	1.67	0.932	55.8	10-146
2,4,5-Trichlorophenol	mg/Kg	1.67	1.17	70.0	10-146
2,4,6-Trichlorophenol	mg/Kg	1.67	1.15	68.8	10-146
2-Fluorobiphenyl (S)				58.8	20-79
2-Fluorophenol (S)				58.2	10-85
Nitrobenzene-d5 (S)				56.4	22-72
Phenol-d6 (S)				61.8	10-96
4-Terphenyl-d14 (S)				61.2	22-104
2,4,6-Tribromophenol (S)				65.1	10-112

Matrix Spike & Matrix Spike Duplicate V 91624-MS-L799905 V 91624-MSD-L799905

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Acenaphthene	mg/Kg	<0.010	1.63	1.64	0.952	1.03	58.4	62.8	10-146	7.8	30
Acenaphthylene	mg/Kg	<0.011	1.63	1.64	0.893	0.973	54.7	59.3	10-146	8.5	30
Aniline	mg/Kg	<0.004	1.63	1.64	0.585	0.670	35.8	40.8	10-146	13.5	30
Anthracene	mg/Kg	<0.013	1.63	1.64	1.00	1.12	61.3	68.2	10-146	11.3	30
Benzo(a)anthracene	mg/Kg	<0.008	1.63	1.64	1.00	1.16	61.3	70.7	10-146	14.8	30

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 132
Report No: 25-034-0008

QC Prep: L799905 **QC Analytical Batch(es):** L800697
QC Prep Batch Method: 3546 **Analysis Method:** 8270E
Analysis Description: Semivolatile Organic Compounds - GC/MS

Matrix Spike & Matrix Spike Duplicate V 91624-MS-L799905 V 91624-MSD-L799905

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Benzo(a)pyrene	mg/Kg	<0.010	1.63	1.64	1.10	1.15	67.4	70.1	10-146	4.4	30
Benzo(b)fluoranthene	mg/Kg	<0.008	1.63	1.64	1.20	1.35	73.6	82.3	10-146	11.7	30
Benzo(g,h,i)perylene	mg/Kg	<0.013	1.63	1.64	1.00	1.04	61.3	63.4	10-146	3.9	30
Benzo(k)fluoranthene	mg/Kg	<0.011	1.63	1.64	0.904	1.07	55.4	65.2	10-146	16.8	30
Benzoic Acid	mg/Kg	<0.016	4.90	4.92	2.74	3.59	55.9	72.9	10-146	26.8	30
Benzyl alcohol	mg/Kg	<0.021	1.63	1.64	0.989	1.06	60.6	64.6	10-146	6.9	30
Bis(2-Chloroethoxy)methane	mg/Kg	<0.011	1.63	1.64	0.967	1.05	59.3	64.0	10-146	8.2	30
Bis(2-Chloroethyl)ether	mg/Kg	<0.006	1.63	1.64	0.911	0.991	55.8	60.4	10-146	8.4	30
Bis(2-Chloroisopropyl)ether	mg/Kg	<0.021	1.63	1.64	0.754	0.822	46.2	50.1	10-146	8.6	30
Bis(2-ethylhexyl)phthalate	mg/Kg	<0.015	1.63	1.64	1.00	1.18	61.3	71.9	10-146	16.5	30
4-Bromophenyl phenyl ether	mg/Kg	<0.015	1.63	1.64	0.983	1.08	60.3	65.8	10-146	9.4	30
Butyl benzyl phthalate	mg/Kg	<0.017	1.63	1.64	1.06	1.21	65.0	73.7	10-146	13.2	30
4-Chloro-3-methylphenol	mg/Kg	<0.016	1.63	1.64	1.62	1.74	99.3	106	10-146	7.1	30
4-Chloroaniline	mg/Kg	<0.012	1.63	1.64	0.601	0.697	36.8	42.5	10-146	14.7	30
2-Chloronaphthalene	mg/Kg	<0.009	1.63	1.64	0.811	0.914	49.7	55.7	10-146	11.9	30
2-Chlorophenol	mg/Kg	<0.013	1.63	1.64	1.00	1.09	61.3	66.4	10-146	8.6	30
4-Chlorophenyl phenyl ether	mg/Kg	<0.011	1.63	1.64	1.17	1.28	71.7	78.0	10-146	8.9	30
Chrysene	mg/Kg	<0.011	1.63	1.64	0.977	1.03	59.9	62.8	10-146	5.2	30
Dibenz(a,h)anthracene	mg/Kg	<0.011	1.63	1.64	1.20	1.32	73.6	80.4	10-146	9.5	30
Dibenzofuran	mg/Kg	<0.014	1.63	1.64	1.12	1.23	68.7	75.0	10-146	9.3	30
1,2-Dichlorobenzene	mg/Kg	<0.008	1.63	1.64	0.886	0.942	54.3	57.4	14-137	6.1	30
1,3-Dichlorobenzene	mg/Kg	<0.008	1.63	1.64	0.867	0.943	53.1	57.5	14-134	8.3	30
1,4-Dichlorobenzene	mg/Kg	<0.009	1.63	1.64	0.883	0.940	54.1	57.3	10-141	6.2	30
3,3'-Dichlorobenzidine	mg/Kg	<0.110	3.27	3.28	1.90	2.03	58.1	61.8	10-146	6.6	30
2,4-Dichlorophenol	mg/Kg	<0.015	1.63	1.64	1.02	1.07	62.5	65.2	10-146	4.7	30
Diethyl phthalate	mg/Kg	<0.010	1.63	1.64	1.13	1.25	69.3	76.2	10-146	10.0	30

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 132
Report No: 25-034-0008

QC Prep: L799905 **QC Analytical Batch(es):** L800697
QC Prep Batch Method: 3546 **Analysis Method:** 8270E
Analysis Description: Semivolatile Organic Compounds - GC/MS

Matrix Spike & Matrix Spike Duplicate V 91624-MS-L799905 V 91624-MSD-L799905

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Dimethyl phthalate	mg/Kg	<0.014	1.63	1.64	0.969	1.01	59.4	61.5	10-146	4.1	30
2,4-Dimethylphenol	mg/Kg	<0.021	1.63	1.64	1.09	1.26	66.8	76.8	10-146	14.4	30
Di-n-butyl phthalate	mg/Kg	<0.014	1.63	1.64	1.15	1.32	70.5	80.4	10-146	13.7	30
4,6-Dinitro-2-methylphenol	mg/Kg	<0.008	1.63	1.64	1.06	1.14	65.0	69.5	10-146	7.2	30
2,4-Dinitrophenol	mg/Kg	<0.009	4.90	4.92	2.66	2.85	54.2	57.9	10-146	6.8	30
2,4-Dinitrotoluene	mg/Kg	<0.011	1.63	1.64	1.34	1.51	82.2	92.0	10-146	11.9	30
2,6-Dinitrotoluene	mg/Kg	<0.011	1.63	1.64	1.12	1.28	68.7	78.0	10-146	13.3	30
Di-n-Octyl Phthalate	mg/Kg	<0.022	1.63	1.64	0.988	1.20	60.6	73.1	10-146	19.3	30
Fluoranthene	mg/Kg	<0.010	1.63	1.64	1.13	1.30	69.3	79.2	10-146	13.9	30
Fluorene	mg/Kg	<0.015	1.63	1.64	1.18	1.28	72.3	78.0	10-146	8.1	30
Hexachlorobenzene	mg/Kg	<0.010	1.63	1.64	0.988	1.17	60.6	71.3	10-146	16.8	30
Hexachlorobutadiene	mg/Kg	<0.009	1.63	1.64	0.970	1.06	59.5	64.6	33-151	8.8	30
Hexachloroethane	mg/Kg	<0.010	1.63	1.64	0.878	0.946	53.8	57.6	10-146	7.4	30
Indeno(1,2,3-cd)pyrene	mg/Kg	<0.017	1.63	1.64	1.06	1.15	65.0	70.1	10-146	8.1	30
Isophorone	mg/Kg	<0.011	1.63	1.64	0.434	0.406	26.6	24.7	10-146	6.6	30
1-Methylnaphthalene	mg/Kg	0.432	1.63	1.64	1.38	1.51	58.1	65.7	10-146	8.9	30
2-Methylnaphthalene	mg/Kg	<0.009	1.63	1.64	1.21	1.37	74.2	83.5	10-146	12.4	30
2-Methylphenol	mg/Kg	<0.015	1.63	1.64	0.928	1.01	56.9	61.5	10-146	8.4	30
3&4 Methylphenol	mg/Kg	<0.014	1.63	1.64	1.08	1.18	66.2	71.9	10-146	8.8	30
Naphthalene	mg/Kg	<0.010	1.63	1.64	1.48	1.56	90.7	95.1	37-148	5.2	30
2-Nitroaniline	mg/Kg	<0.017	1.63	1.64	1.02	1.18	62.5	71.9	10-146	14.5	30
3-Nitroaniline	mg/Kg	<0.009	1.63	1.64	0.745	0.844	45.7	51.4	10-146	12.4	30
4-Nitroaniline	mg/Kg	<0.012	1.63	1.64	1.05	1.25	64.4	76.2	10-146	17.3	30
Nitrobenzene	mg/Kg	<0.006	1.63	1.64	1.15	1.21	70.5	73.7	10-146	5.0	30
2-Nitrophenol	mg/Kg	<0.016	1.63	1.64	1.09	1.25	66.8	76.2	10-146	13.6	30
4-Nitrophenol	mg/Kg	<0.013	1.63	1.64	0.991	2.13	60.7	130	10-146	72.9*	30

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 132
Report No: 25-034-0008

QC Prep: L799905 **QC Analytical Batch(es):** L800697
QC Prep Batch Method: 3546 **Analysis Method:** 8270E
Analysis Description: Semivolatile Organic Compounds - GC/MS

Matrix Spike & Matrix Spike Duplicate V 91624-MS-L799905 V 91624-MSD-L799905

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
N-Nitrosodimethylamine	mg/Kg	<0.005	1.63	1.64	0.950	1.00	58.2	60.9	10-146	5.1	30
N-Nitrosodiphenylamine	mg/Kg	<0.012	1.63	1.64	0.915	0.996	56.1	60.7	10-146	8.4	30
N-Nitroso-di-n-propylamine	mg/Kg	<0.010	1.63	1.64	1.15	0.806	70.5	49.1	10-146	35.1*	30
Pentachlorophenol	mg/Kg	<0.018	1.63	1.64	1.16	1.29	71.1	78.6	10-146	10.6	30
Phenanthrene	mg/Kg	<0.013	1.63	1.64	1.03	1.14	63.1	69.5	10-146	10.1	30
Phenol	mg/Kg	<0.020	1.63	1.64	0.984	1.05	60.3	64.0	10-146	6.4	30
Pyrene	mg/Kg	<0.012	1.63	1.64	0.985	1.03	60.4	62.8	10-146	4.4	30
Pyridine	mg/Kg	<0.015	1.63	1.64	0.738	0.769	45.2	46.8	10-146	4.1	30
1,2,4-Trichlorobenzene	mg/Kg	<0.010	1.63	1.64	1.02	1.11	62.5	67.6	10-146	8.4	30
2,4,5-Trichlorophenol	mg/Kg	<0.020	1.63	1.64	1.10	1.24	67.4	75.6	10-146	11.9	30
2,4,6-Trichlorophenol	mg/Kg	<0.014	1.63	1.64	1.11	1.25	68.0	76.2	10-146	11.8	30
2-Fluorobiphenyl (S)							52.5	56.0	20-79		
2-Fluorophenol (S)							55.9	59.4	10-85		
Nitrobenzene-d5 (S)							56.2	59.1	22-72		
Phenol-d6 (S)							56.5	60.0	10-96		
4-Terphenyl-d14 (S)							57.4	59.1	22-104		
2,4,6-Tribromophenol (S)							60.5	65.5	10-112		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 132
Report No: 25-034-0008

QC Prep: L799927
QC Prep Batch Method: MAEPH (Prep)
QC Analytical Batch(es): L800398
Analysis Method: MADEP-EPH
Analysis Description: Massachusetts EPH

Lab Reagent Blank LRB-L799927 Matrix: SOL
Associated Lab Samples: 91630

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Aliphatic C9-C18	mg/Kg	<1.18	1.18	3.00	02/24/25 11:00		
Aliphatic C19-C36	mg/Kg	<0.948	0.948	4.00	02/24/25 11:00		
Aromatic C11-C22	mg/Kg	<3.95	3.95	8.50	02/21/25 20:36		
2-Fluorobiphenyl (S)					02/21/25 20:36	77.8	40-140
Chlorooctadecane (S)					02/24/25 11:00	58.4	40-140
OTP Surrogate (S)					02/21/25 20:36	47.0	40-140

Laboratory Control Sample LCS-L799927

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Aliphatic C9-C18	mg/Kg	6.67	4.23	63.4	40-140
Aliphatic C19-C36	mg/Kg	10.0	5.97	59.7	40-140
Aromatic C11-C22	mg/Kg	16.7	16.6	99.4	40-140
2-Fluorobiphenyl (S)				73.6	40-140
Chlorooctadecane (S)				57.0	40-140
OTP Surrogate (S)				40.4	40-140

Matrix Spike & Matrix Spike Duplicate V 91628-MS-L799927 V 91628-MSD-L799927

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Aliphatic C9-C18	mg/Kg	370	6.54	6.56	577	650	3170*	4270*	40-140	11.8	50
Aliphatic C19-C36	mg/Kg	3.80	9.80	9.84	8.70	10.1	88.7	103	40-140	14.8	50
Aromatic C11-C22	mg/Kg	61.9	16.3	16.4	21.8	38.0	0.0*	0.0*	40-140	54.1*	50
2-Fluorobiphenyl (S)							85.2	95.1	40-140		
Chlorooctadecane (S)							46.1	52.6	40-140		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)

Project Description: ROW-809 Parcel 132

Report No: 25-034-0008

QC Prep: L799927

QC Prep Batch Method: MAEPH (Prep)

QC Analytical Batch(es): L800398

Analysis Method: MADEP-EPH

Analysis Description: Massachusetts EPH

Matrix Spike & Matrix Spike Duplicate V 91628-MS-L799927 V 91628-MSD-L799927

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
OTP Surrogate (S)							47.7	54.8	40-140		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 132
Report No: 25-034-0008

QC Prep: V56312
QC Prep Batch Method: MAVPH (Prep)
QC Analytical Batch(es): V56313
Analysis Method: MADEP-VPH
Analysis Description: Massachusetts VPH

Lab Reagent Blank LRB-V56312 Matrix: SOL
Associated Lab Samples: 91630

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Aliphatic C5-C8	mg/Kg	<1.22	1.22	8.00	02/14/25 16:41		
Aliphatic C9-C12	mg/Kg	<4.56	4.56	8.00	02/14/25 16:41		
Aromatic C9-C10	mg/Kg	<0.624	0.624	8.00	02/14/25 16:41		
2,5-Dibromotoluene (FID) (S)					02/14/25 16:41	71.7	70-130
2,5-Dibromotoluene (PID) (S)					02/14/25 16:41	76.5	70-130

Laboratory Control Sample & LCSD LCS-V56312 LCSD-V56312

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Aliphatic C5-C8	mg/Kg	64.0	48.1	48.2	75.1	75.3	70-130	0.2	50
Aliphatic C9-C12	mg/Kg	96.0	92.4	93.6	96.2	97.5	70-130	1.2	50
Aromatic C9-C10	mg/Kg	21.3	21.6	21.4	101	100	70-130	0.9	50
2,5-Dibromotoluene (FID) (S)					70.0	70.3	70-130		
2,5-Dibromotoluene (PID) (S)					72.1	73.3	70-130		



Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 132
Report No: 25-034-0008

QC Analytical Batch: V55990
Analysis Method: SW-DRYWT
Analysis Description: Dry Weight Determination

Duplicate V 91629-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Moisture	%	24.1	24.4	1.2	20.0	02/04/25 14:22



Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 132
Report No: 25-034-0008

QC Analytical Batch: V56015
Analysis Method: SW-DRYWT
Analysis Description: Dry Weight Determination

Duplicate V 91657-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Moisture	%	25.5	24.9	2.3	20.0	02/05/25 14:16

Shipment Receipt Form

Customer Number: **01102**

Customer Name: **Hart & Hickman (Charlotte)**

Report Number: **25-034-0008**

Shipping Method

☐ Fed Ex	☐ US Postal	☐ Lab	☐ Other :	
☐ UPS	☒ Client	☐ Courier	Thermometer ID:	IRT15 2.3C

Shipping container/cooler uncompromised?	☒ Yes	☐ No	
Number of coolers/boxes received	1		
Custody seals intact on shipping container/cooler?	☐ Yes	☐ No	☒ Not Present
Custody seals intact on sample bottles?	☐ Yes	☐ No	☒ Not Present
Chain of Custody (COC) present?	☒ Yes	☐ No	
COC agrees with sample label(s)?	☒ Yes	☐ No	
COC properly completed	☒ Yes	☐ No	
Samples in proper containers?	☒ Yes	☐ No	
Sample containers intact?	☒ Yes	☐ No	
Sufficient sample volume for indicated test(s)?	☒ Yes	☐ No	
All samples received within holding time?	☒ Yes	☐ No	
Cooler temperature in compliance?	☒ Yes	☐ No	☐ Not Present
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	☒ Yes	☐ No	
Water - Sample containers properly preserved	☐ Yes	☐ No	☒ N/A
Water - VOA vials free of headspace	☐ Yes	☐ No	☒ N/A
Trip Blanks received with VOAs	☐ Yes	☐ No	☒ N/A
Soil VOA method 5035 – compliance criteria met	☒ Yes	☐ No	☐ N/A
☐ High concentration container (48 hr)	☐ Low concentration EnCore samplers (48 hr)		
☒ High concentration pre-weighed (methanol -14 d)	☒ Low conc pre-weighed vials (Sod Bis -14 d)		
Special precautions or instructions included?	☐ Yes	☒ No	

Comments:

Signature:

Angelo Norvell

Date & Time:

02/03/2025 11:18:29

Via Email

May 1, 2025

NC DOT Geotechnical Unit
GeoEnvironmental Section
1589 Mail Service Center
Raleigh, North Carolina 27699-1589

Attention: Mr. Ashley Cox, Jr., LG

Re: Initial Abatement Action Report – Parcel 024
NC DOT State Project No. R-5600
WBS Element No. 45818.1.FR1
Sylva, Jackson County, North Carolina
H&H Job No. ROW-809

Dear Ashley:

Please find the attached PDF copy of the Initial Abatement Action Report for the Alpine Sylva, LLC property (Parcel 024) located in Sylva, Jackson County, North Carolina. Please return via DocuSign for final signatures. If you have any questions or need additional information, please contact us at (704) 586-0007.

Sincerely,

Hart & Hickman, PC



David Graham, PG
Project Manager



Matt Bramblett, PE
Principal

Attachment

INITIAL ABATEMENT ACTION REPORT

H&H JOB NO. ROW-809

MAY 1, 2025



NC DOT PARCEL #024 - 28 W. MAIN STREET

Sylva, Jackson County, North Carolina

State Project R-5600

WBS Element #45818.1.FR1



SMARTER ENVIRONMENTAL SOLUTIONS

#C-1269 Engineering / #C-245 Geology

Initial Abatement Action Report

1.0 Site Information

1.1 Site Identification

Date of Report: May 1, 2025 Site Risk: NA
Facility ID: NA UST Incident Number: 49915
Site Name: Vacant Parcel (NC DOT Parcel 024)
Site Street Address: 28 W. Main Street
City, Town: Sylva Zip Code: 28779 County: Jackson
Description of Geographical Data Point: Center of Former UST locations
Location Method: Google Earth
Latitude: 35.374923 N Longitude: -83.213714 W

1.2. Information about Contacts Associated with the Leaking UST System

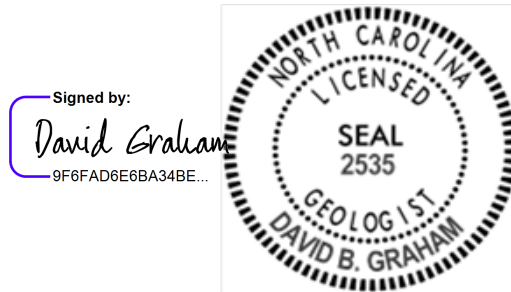
UST/AST Owner: Alpine Sylva, LLC Email: NA
Address: 1 Glenlake Parkway, Suite 1050, Atlanta, GA, 30328 Tel.: N/A
UST/AST Operator: Alpine Sylva, LLC Email: NA
Address: 1 Glenlake Parkway, Suite 1050, Atlanta, GA, 30328 Tel.: N/A
Property Owner: Alpine Sylva, LLC Email: NA
Address: 1 Glenlake Parkway, Suite 1050, Atlanta, GA, 30328 Tel.: N/A
Property Occupant: Vacant Email: NA
Address: 28 W. Main Street Tel.: NA
Consultant/Contractor: Hart & Hickman, PC Email: dgraham@harthickman.com
Address: 2923 South Tryon Street, Suite 100, Charlotte, NC 28203
Tel.: (704) 586-0007
Analytical Laboratory: Waypoint Analytical State Cert. No. 402
Address: 449 Springbrook Road, Charlotte, NC 28217 Tel.: (704) 529-6364

1.3 Information About Release

Date Discovered: Preliminary laboratory report dated February 10, 2025 indicates petroleum detections in UST closure soil samples above NC DEQ Action Levels
Estimated Quantity of Release: Unknown
Cause of Release: Unknown
Source of Release: Underground Storage Tanks
Sizes and contents of Tanks or other Containment from which the release occurred: Two 750-gallon gasoline USTs

1.4 Certification

I, David Graham, PG a Licensed Geologist at Hart & Hickman, PC, do certify that the information contained in this report is correct and accurate to the best of my knowledge.



Hart & Hickman, PC is licensed to practice geology/engineering in North Carolina. The certification numbers of the company are C-245/C-1269.

2.0 Executive Summary

The North Carolina Department of Transportation (NC DOT) is planning to conduct road improvement activities along East and West Main Street in Sylva, NC. On behalf of NC DOT, Hart & Hickman, PC (H&H) previously conducted Phase II assessment activities in proposed NC DOT work areas on Parcel 024 (28 W. Main Street) in September and October 2022. As part of Phase II assessment activities, H&H contracted with Pyramid Geophysical Services (Pyramid) to identify potential USTs within proposed NC DOT work areas using electromagnetic (EM) induction technology and ground penetrating radar (GPR). The EM/GPR survey identified two potential USTs on Parcel 024.

At NC DOT's request, H&H and our UST closure contractor, EVO Corporation (EVO), mobilized to the Site from January 29 through 31, 2025 to investigate and remove the USTs. An exploratory excavation was conducted to remove the asphalt and overburden soil to uncover the USTs. During excavation activities, two USTs (UST-1 and UST-2) were identified beneath the asphalt. UST-1 and UST-2 were each estimated to be 750-gallons in capacity. The USTs were removed, and UST closure soil samples were collected from the former tank basin in accordance with North Carolina Department of Environmental Quality (NC DEQ) guidelines. Concentrations of petroleum constituents were detected in four of the six UST closure soil samples collected from the sidewalls of the UST basin above NC DEQ Action Levels. No product piping or dispenser areas were identified near the USTs.

3.0 Site History and Characterization

3.1 UST Owner and Operator Information Table

UST ID Number	NA		Facility ID Number	NA
Owner Name (and Contact)			Dates of Operation (mm/dd/yy to mm/dd/yy)	
Alpine Sylva, LLC			Unknown	
Street Address				
1 Glenlake Parkway, Suite 1050				
City		State	Zip	Telephone Number
Atlanta		GA	30328	NA
Operator Name (and Contact)			Dates of Operation (mm/dd/yy to mm/dd/yy)	
Alpine Sylva, LLC			Unknown	
Street Address				
1 Glenlake Parkway, Suite 1050				
City		State	Zip	Telephone Number
Atlanta		GA	30328	NA
Other Incidents Onsite or Commingled/In Close Proximity				
Incident Number	NA		Date Incident Occurred	NA
Name of Responsible Party for Other Incident			Date Incident Reported	NA
NA			Date Incident Closed	NA
Street Address				
NA				
City		State	Zip	Telephone Number
NA		NA	NA	NA

3.2 UST Information Table

UST ID Number	Current/Last Contents	Previous Contents	Capacity (gallons)	Construction Details	Approximate Tank Dimensions	Description of Associated Piping and Pumps	Date Tank Installed	Status of UST	Was release associated with the UST System?
UST-1	Gasoline	N/A	750	Single-walled steel	8 ft x 3.5 ft	No piping or pumps identified.	Unknown	Removed 01/30/2025	Yes
UST-2	Gasoline	N/A	750	Single-walled steel	8 ft x 3.5 ft	No piping or pumps identified.	Unknown	Removed 01/30/2025	Yes

3.3 Non-UST Spills at the Site

There are no non-UST spills known to be associated with NC DOT Parcel 024.

3.4 Description of Release

NC DOT is conducting road improvement activities along West Main Street in Sylva, NC near Parcel 024. A site location map is presented as Figure 1, and a site map is presented as Figure 2. H&H previously conducted Phase II assessment activities within proposed NC DOT areas on Parcel 024 in September and October 2022. During the Phase II activities, a geophysical survey was conducted by Pyramid to identify potential USTs within proposed NC DOT work areas. Two potential USTs were identified in the southeast portion of the Site using EM and GPR. There were no visual surface indications of the underlying USTs. Concentrations of target petroleum constituents were detected in soil and groundwater samples collected during Phase II assessment activities on Parcel 024 above NC DEQ Action Levels and the 15A NCAC 2L .0202 Groundwater Quality Standards, respectively. The results of the soil and groundwater sampling activities and geophysical survey are described in H&H's Phase II Investigation Report dated November 30, 2022.

At the request of NC DOT, H&H supervised the removal of the USTs that were identified during geophysical survey activities on Parcel 024. H&H contracted EVO Corporation (EVO) of Winston-Salem, North Carolina to perform the UST investigation and removal activities. On January 30, 2025, the USTs were excavated and transported off-site for proper disposal and recycling. Due to the shallow water table, approximately 2.5 ft below ground surface (bgs), six soil samples (SW-1 through SW-6) were collected approximately 2 ft bgs at 10 ft intervals along the sidewalls of the excavation after the USTs were removed from the ground. The soil samples were submitted to a NC certified laboratory for analysis of total petroleum hydrocarbons (TPH) as gasoline range organics (GRO) and diesel range organics (DRO) by EPA Method 8015. Soil screening results indicated the presence of elevated organic vapors in the soil samples collected around the perimeter of the excavation.

Laboratory analytical results indicate concentrations of TPH DRO (up to 2,150 mg/kg) and/or TPH GRO (up to 237 mg/kg) above the NC DEQ Action Levels of 100 mg/kg and 50 mg/kg, respectively, in four of the six UST closure samples collected from the sidewalls of the UST basin. Based on field screening, impacted overburden soil was identified during UST closure activities. H&H's contractor removed approximately 16.2 tons of impacted soil from the excavation area. Removed overburden soil was transported off-site for treatment/disposal at EVO's permitted facility.

Due to the shallow water table, approximately 2.5 ft bgs, and at NC DOT's request, no over-excavation activities were conducted at the UST locations during UST removal activities. However, to put the site in a position to potentially obtain regulatory closure in the event that TPH detections were found above NC DEQ Action Levels, soil sample portions were collected at each closure sample location for potential risk-based analyses. Based on discussions between NC DOT and NC DEQ, because TPH DRO and/or TPH GRO exceeded the Action Levels in closure soil samples SW-1, SW-2, SW-5 and SW-6, these samples were

also analyzed for volatile organic compounds (VOCs) by EPA Method 8260, semi-VOCs (SVOCs) by EPA Method 8270, and extractable petroleum hydrocarbons (EPH) and volatile petroleum hydrocarbons (VPH) by the Massachusetts Department of Environmental Protection (MADEP) Methods. Laboratory analytical results were compared to NC DEQ Soil-to-Water, Residential, and Industrial/Commercial Maximum Soil Contaminant Concentrations (MSCCs).

3.5 Site Characteristics

Previous use of the property is unknown. However, according to Maura Clark, Incident Manager with the NC DEQ UST section, the site was formerly occupied by the Sylva Gulf Station (formerly identified as 54 W. Main Street). One 2,000-gallon gasoline UST and two 3,000-gallon gasoline USTs were removed from the site in December 1990. No release was reported at the site. No UST incident files are available for the former Sylva Gulf Station. The property was vacant at the time of the UST removal activities. The Site is located in a mixed commercial and residential area of Sylva. A topographic site location map is presented as Figure 1, and a site map is presented as Figure 2.

The subject Site is located in the Blue Ridge Physiographic Province of North Carolina. The land surface of the area is generally characterized as inter-mountain basins surrounded by moderate-to-steep sloped mountains, which may become steeper where intersected by streams. Within the Site area, underlying bedrock is composed of predominantly biotite gneiss that is inter-layered and gradational with biotite-garnet gneiss and amphibolite. Locally, quartz and aluminosilicates are abundant.

Visual observations during the UST excavation activities indicate that the soil in the area of the UST excavation consists of tan and brown sandy silt to a depth of approximately 5 ft below ground surface (bgs). Groundwater was identified approximately 2.5 bgs in an existing monitoring well (MW-Parcel 24) identified by H&H during prior Phase II activities. Only minimal groundwater was observed in the base of the UST excavation area. Monitoring well MW-Parcel 24 is located approximately 30 southwest of the UST excavation area (see Figure 2). At the direction of NC DOT, this monitoring well was properly abandoned by H&H on February 17, 2025. Monitoring well abandonment activities are described under separate cover. Bedrock was not encountered during the UST removal activities. Groundwater flow direction likely follows topography and flows from northeast to southwest.

A water supply well survey was not conducted during UST closure activities. No surface waters were identified on the site.

3.6 Initial Abatement Actions, Assessment Activities, and Corrective Actions performed to Date

With the exception of the previous Phase II activities mentioned above, no known assessment or corrective actions have been conducted at the site. Initial abatement actions are discussed in Section 4.0 below.

4.0 UST Closure Report following UST-12 format and Site Investigation Report for Permanent Closure or Change-in-Service of UST (UST-2 Form)

4.1 Preparations for Closure Including the Steps Taken to Notify Authorities, Permits Obtained and the Steps Taken to Clean and Purge the Tanks

Prior to UST excavation activities, H&H submitted a Notice of Intent: UST Permanent Closure or Change-in-Service (UST-3) form to NC DEQ on January 10, 2025. A copy of the UST-3 form is provided in Appendix A. EVO obtained a fire permit from the Jackson County Fire Department Prior to conducting UST removal activities. A copy of the email approval of the fire inspection results is included in Appendix B. H&H prepared a site-specific Health and Safety Plan for UST closure activities. A copy of the Health and Safety Plan is included in Appendix C.

On January 29 through January 31, 2025, EVO mobilized to the site to remove the two USTs. During excavation activities, two 750-gallon USTs (UST-1 and UST-2) were identified and removed. Residual liquids were pumped from each tank into a vacuum truck provided by EVO prior to removal of the USTs. In addition, prior to removal, the interiors of the tanks were triple-rinsed with a pressure washer and the water was removed with the vacuum truck. Approximately 1,060 gallons of residual liquids and rinse water were pumped from the USTs and properly disposed by EVO. The certificate of disposal and non-hazardous materials manifest for removed residual liquids are included in Appendix D.

Prior to the removal of the USTs, dry ice (carbon dioxide) was added to purge potential explosive vapors from the USTs. A lower explosion level (LEL) meter was utilized to monitor for explosive atmospheres to confirm readings within the tank were less than 10% of the LEL prior to UST removal.

4.2 Closure Procedures

Initially, soil was removed from the top and sides of the USTs with an excavator so that the tank could be removed from the ground. Soil encountered during the excavation was evaluated in the field for the presence of odors, staining, and organic vapor readings as detected with a photoionization detector (PID). The PID was calibrated prior to its use against an isobutylene standard. Soil screening results indicated the presence of elevated organic vapors in the overburden soil and in soil samples collected on the perimeter of the excavation.

Following removal, the USTs were observed for evidence of holes and corrosion. Slight pitting and corrosion were observed on each UST. No dispensers or product piping were identified near the USTs. The USTs were transported off-Site by EVO to Metalwood Recycling in Sylva, North Carolina for proper disposal and recycling. The Tank Disposal Certificate is included in Appendix E.

After UST removal, closure soil samples were collected in accordance with the NC DEQ UST Section *Guidelines for Site Checks, Tank Closure, and Initial Response and Abatement*

for UST Releases, May 17, 2021 Version, Change 11 - 2021 (*Guidelines*). There were field indications of a release based on PID readings of the closure soil samples and overburden soil.

After closure sampling, the excavation was backfilled with fill material provided by EVO. A total of 16.20 tons of non-hazardous contaminated soil were removed and properly disposed by EVO.

H&H completed a Site Investigation Report for Permanent Closure or Change-in-Service of Un-Registered UST (UST-2B Form) for the two 750-gallon USTs. The completed UST-2B Form is included in Appendix F.

4.3 Residual Material

Removal of residual liquids from the USTs is described in Section 4.1 above.

4.4 Initial Response Actions

A UST release was confirmed based on the preliminary laboratory report of UST closure soil samples dated February 10, 2025. Initial response and abatement actions are described in H&H's 24-Hour Release and UST Leak Reporting Form dated February 11, 2025, 20-Day Report and Project Update letter dated March 4, 2025, and in Section 4.0 of this report.

4.5 Soil Excavation Activities

As described above, overburden soils were removed from the top and sides of the USTs with an excavator so that the tanks could be removed from the ground. Soils encountered during the excavation were evaluated in the field for the presence of odors, staining, and organic vapor readings using a PID. There was evidence of a release based on PID readings of overburden soils and closure soils samples collected from the sidewalls of the UST basin. H&H's contractor removed approximately 16.2 tons of impacted overburden soil from the UST excavation area. Removed overburden soil was transported off-site for treatment/disposal at EVO's permitted facility. The certificate of disposal, non-hazardous materials manifest, and certified weight ticket for removed soil are included in Appendix G.

The approximate extent of the UST excavation area is shown on Figure 2. The top of the USTs were approximately 1 ft bgs. As noted above, the soil consisted of tan and brown sandy silt to a depth of approximately 5 ft bgs. Due to the shallow water table, #57 stone was used to backfill the excavation and the excavation area was capped with approximately 3-inches of ABC stone. The stone was obtained from Harrison Construction in Dillsboro, NC. At the direction of NC DOT, no compaction testing was performed.

5.0 Site investigation

5.1 Field Screening

Field screening of soil samples collected beneath the USTs and overburden soil was conducted using a PID. Soil samples were placed in plastic Ziploc® bags and subsequently screened with the PID. There were field indications of a release based on PID readings of the closure soil samples and overburden soil. PID screening results for the closure soil samples are presented in Table 1.

5.2 Soil Sampling Information

After removal of the two 750-gallon USTs, closure soil samples were collected in accordance with the NC DEQ UST Section *Guidelines* using the excavator bucket. Soil samples were collected from the center of the excavator bucket from soil not in direct contact with the bucket. Due to the shallow water table at approximately 2.5 ft bgs, closure soil samples SW-1 through SW-6 were collected approximately 2 ft bgs at 10 ft intervals along the sidewalls of the excavation. The closure samples were submitted to Waypoint Analytical (Waypoint), a NC certified laboratory, for analysis of TPH DRO and GRO by EPA Method 8015. As noted above, sample portions from each closure sample location were placed on hold with the laboratory for analysis of VOCs by EPA Method 8260, SVOCs by EPA Method 8270, and EPH and VPH by the MADEP methods. The locations of the UST closure soil samples are depicted on Figure 2.

5.3 Groundwater and Surface Water

No groundwater or surface water samples were collected.

5.4 Quality Control Information

During UST closure activities, soil samples were collected using a nitrile glove-covered hand, placed into laboratory-supplied sample containers, and then labeled as to content, analyses requested, sample date and time, and sampler's name. The samples were placed in an iced cooler upon collection and were subsequently submitted to Waypoint under standard chain-of-custody protocol.

5.5 Soil Investigation Results

Laboratory analytical results indicate concentrations of TPH DRO (ranging from 319 mg/kg to 2,150 mg/kg) and/or TPH GRO (ranging from 104 mg/kg to 237 mg/kg) were detected in soil samples SW-1, SW-2, SW-5 and SW-6 above the NC DEQ Action Levels of 100 mg/kg and 50 mg/kg, respectively. Low level concentrations of TPH DRO and/or GRO were also detected in UST closure soil samples SW-3 and SW-4 below the NC DEQ Action levels.

Based on discussions between NC DOT and NC DEQ, because TPH DRO and/or GRO exceeded the NC DEQ Action Levels in closure soil samples SW-1, SW-2, SW-5 and SW-6,

these samples were also analyzed for VOCs, SVOCs, and EPH and VPH by the MADEP Methods. Laboratory analytical results indicate concentrations of SVOCs including 1-methylnaphthalene and naphthalene, and/or concentrations MADEP EPH and VPH were detected in soil samples SW-1, SW-2, SW-5 and SW-6 above the NC DEQ Soil-to-Water MSCCs. A concentration of Total C9-C22 Aromatics (3,108 mg/kg) was also detected in soil sample SW-1 above the Residential MSCC. No other target constituents were detected above the MSCCs the remaining samples. Soil sample analytical results, analytical methods, PID readings, and sample depths are summarized in Table 1. The laboratory analytical data report and chain-of-custody record are provided in Appendix H.

6.0 Conclusions

Between January 29 and 31, 2025, two 750-gallon USTs were removed from the subject property and the excavation was backfilled. Groundwater was encountered in the UST excavation area. No bedrock was encountered during UST closure activities. In addition, non-aqueous phase liquid (NAPL) was not identified during UST closure activities. Concentrations of TPH DRO and/or GRO and other target petroleum constituents were detected above the NC DEQ Action Levels and Soil-to-Water and/or Residential MSCCs, respectively, in four of six closure soil samples collected from the sidewalls of the UST excavation area. Approximately 16.2 tons of overburden soil was removed from the UST basin and properly disposed. Based on the UST closure soil sample analytical data, petroleum impacted soil above the NC DEQ Action level and MSCCs remains in the former UST excavation area.

Tables

Table 1	Summary of Soil Analytical Results
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Figures

Figure 1	Site Location Map
Figure 2	Site Map and Soil Analytical Results

Appendices

Appendix A	Notice of Intent: UST Permanent Closure or Change in Service Form (UST-3 form)
Appendix B	Fire Permit Inspection Approval Email
Appendix C	Health and Safety Plan
Appendix D	Certificate of Disposal and Non-Hazardous Materials Manifest (Liquid)
Appendix E	Tank Disposal Certificate
Appendix F	Site Investigation Report for Permanent Closure or Change-in-Service of Un-Registered UST (UST-2B Form)
Appendix G	Certificate of Disposal, Non-Hazardous Materials Manifest, and Certified Weight Ticket (Soil)
Appendix H	Laboratory Analytical Data Report

Table 1 (Page 1 of 1)
Summary of Soil Analytical Results
NC DOT - Parcel 24
Sylva, North Carolina
H&H Job No. ROW-809

Analytical Method						EPA 8015C (mg/kg)		VOCs (8260) (mg/kg)									SVOCs (8270) (mg/kg)			MADEP EPH & VPH (mg/kg)								
Contaminant of Concern						Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Acetone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon Disulfide	Ethylbenzene	n-Hexane	Isopropylbenzene (Cumene)	n-Propylbenzene	1,2,4-Trimethylbenzene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	VPH C5-C8 Aliphatics	VPH C9-C12 Aliphatics	EPH C9-C18 Aliphatics	Total C9-C18 Aliphatics	EPH C19-C36 Aliphatics	VPH C9-C10 Aromatics	EPH C11-C22 Aromatics	Total C9-C22 Aromatics
Sample ID	Date Collected	Sample Area	Sample Depth (ft)	PID Reading (ppm)	Incident Phase																							
SW-1	1/30/2025	UST Basin Sidewall	2	757	Closure	191	2,150	<0.003	0.060 M	0.067 M	0.009 M	0.001 J	0.022 M	<0.0009	0.037	0.092 M	0.001 J	0.581	<0.013	<0.014	63.0	602	197	799	3.01 J	188	2,920	3,108
SW-2	1/30/2025	UST Basin Sidewall	2	541	Closure	237	349	0.087	0.025 M	0.024 M	0.003 JM	<0.0009	0.005 JM	<0.0009	0.010	0.033 M	0.001 J	0.204	0.208	<0.015	84.3 J	1,170	209	1,379	2.83 J	150	6.47 J	156.5
SW-3	1/30/2025	UST Basin Sidewall	2	40.1	Closure	<2.77	10.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SW-4	1/30/2025	UST Basin Sidewall	2	37.1	Closure	11.5	6.66	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SW-5	1/30/2025	UST Basin Sidewall	2	159.6	Closure	104	608	0.058	0.001 JM	<0.0008 M	<0.0007 M	<0.0009	<0.0008 M	<0.0009	<0.0006	<0.0008 M	<0.0007	0.344	0.373	0.299	<8.52	669	518	1,187	5.32 J	148	86.7	234.7
SW-6	1/30/2025	UST Basin Sidewall	2	87.9	Closure	<2.73	319	<0.004	0.007 JM	0.008 JM	<0.001 M	<0.001	0.009 JM	0.007 J	0.007 J	0.011 M	<0.001	0.077 J	0.110	0.063 J	<1.61	16.7	15.0	31.7	3.35 J	3.56 J	20.6	24.2
NC DEQ Action Level (mg/kg)						50	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Soil-to-Water MSCC ⁽¹⁾						NE	NE	24	2.4	2.2	1.7	3.7	8	NE	1.3	1.4	6.6	0.054	1.5	0.2	68	NE	NE	540	>100%	NE	NE	31
Residential MSCC ⁽¹⁾						NE	NE	14,000	782	1,560	1,560	1,560	60.3	NE	1,560	1,560	156	22.8	62.5	5.5	625	NE	NE	1,560	31,200	NE	NE	469
Industrial/Commercial MSCC ⁽¹⁾						NE	NE	210,000	11,600	23,300	23,300	23,300	297	NE	23,300	23,300	2,330	112	934	27	9,340	NE	NE	23,300	467,000	NE	NE	7,000

Notes:

1) NC Department of Environmental Quality (DEQ) Division of Waste Management (DWM) Underground Storage Tank (UST) Section Corrective Action Guidelines dated April 9, 2025.

MSCC = Maximum Soil Contaminant Concentration

Bold indicates concentration exceeds TPH Action Level or Soil-to-Water MSCCs.

Underline indicates concentration exceeds Residential MSCCs.

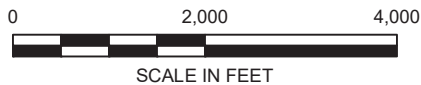
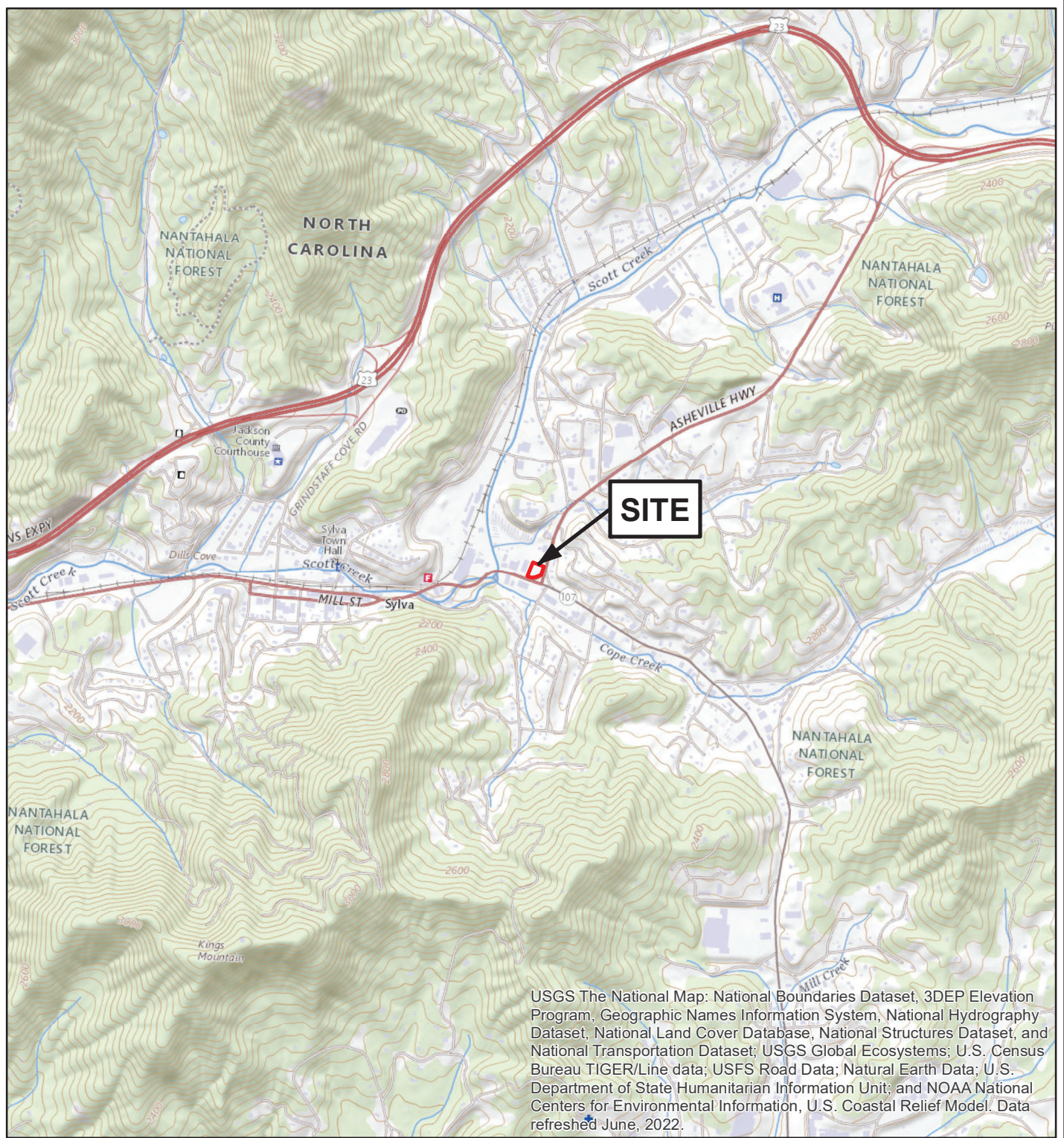
TPH = Total Petroleum Hydrocarbons; VPH = Volatile Petroleum Hydrocarbons; EPH = Extractable Petroleum Hydrocarbons; VOCs = Volatile Organic Compounds; SVOCs = Semi-VOCs, PID = Photoionization Detector; ft = feet; ppm = parts per million.

MADEP = Massachusetts Department of Environmental Protection

NA = Not analyzed; mg/kg = milligrams per kilogram; NE = Not established

J = Estimated concentration above the laboratory method detection limit and below the laboratory reporting limit.

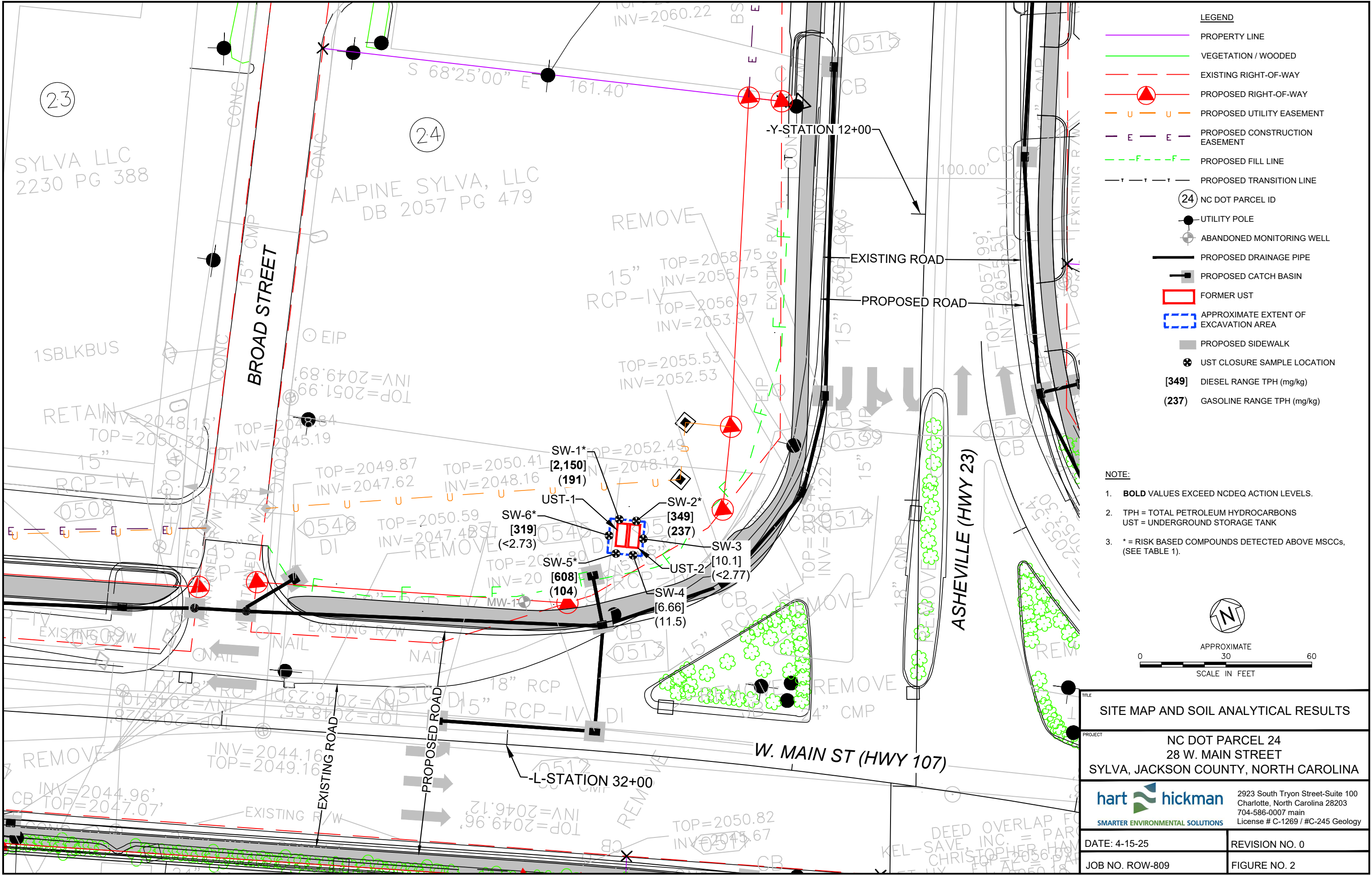
M = Flags for recovery outside QC limits in the associated continuing calibration verification (CCV). Results should be considered a minimum concentration.



U.S.G.S. QUADRANGLE MAP
SYLVA NORTH, NORTH CAROLINA 2022
QUADRANGLE
7.5 MINUTE SERIES (TOPOGRAPHIC)

TITLE SITE LOCATION MAP	
PROJECT NCDOT PARCEL 24 28 W. MAIN ST SYLVA, NORTH CAROLINA	
 2923 South Tryon Street - Suite 100 Charlotte, North Carolina 28203 704-586-0007 (p) 704-586-0373 (f) License # C-1269 / # C-245 Geology	
DATE: 4-18-25	REVISION NO: 0
JOB NO: ROW-809	FIGURE NO: 1

S:\AAA-Master Projects\NC DOT Right-of-Way - ROW\ROW-809 Sylva USTs\Figures\ROW-809 Sylva USTs.dwg, PARCEL 24, 4/15/2025 9:29:54 AM, draburn



Appendix A
Notice of Intent: UST Permanent Closure or Change in Service Form (UST-3 Form)

UST-3 Notice of Intent: UST Permanent Closure or Change-in-Service

Return completed form to:

The DWM Regional Office located in the area where the facility is located. Also send a copy to the Central Office in Raleigh.
Go to the following link for the regional and central office mailing addresses:
<https://www.deq.nc.gov/about/divisions/waste-management/ust/ro-staff>

STATE USE ONLY

I.D. # _____

Date Received _____

INSTRUCTIONS (READ THIS FIRST)

Complete and return a UST-3 form at least **thirty (30) days** prior to closure or change-in-service activities.

Completed UST closure or change-in-service site assessment reports, along with a copy of the UST-2A and/or 2B forms, should be submitted to the appropriate Division of Waste Management (DWM) Regional Office within thirty (30) days following closure activities. The UST-2 form should also be submitted to the Central Office in Raleigh so that the status of the tanks may be changed to permanently closed and your tank fee account can be closed out. Note: Tank fees may be due for unregistered tanks.

UST closure and change-in-service site assessments must be completed in accordance with the latest version of the *Guidelines for Site Checks, Tank Closure and Initial Response*. The guidelines can be obtained at <https://deq.nc.gov/about/divisions/waste-management/ust>. Note: To close tanks in place you must obtain prior approval from the DWM Regional office located in the region where the facility is located.

You must make sure that USTs removed from your property are disposed of properly. When choosing a closure contractor, ask where the tank(s) will be taken for disposal. Usually, USTs are cleaned and cut up for scrap metal. This is dangerous work and must be performed by a qualified company. Tanks disposed of illegally in fields or other dumpsites can leak petroleum products and sludge into the environment. If your tanks are disposed of improperly, you could be held responsible for the cleanup of any environmental damage that occurs.

I. OWNERSHIP OF TANKS

Owner Name (Corporation, Individual, Public Agency, or Other Entity)
Alpine Sylva, LLC

Street Address
1 Glenlake Parkway, Ste. 1050

City
Atlanta

County
Fulton

State
GA

Zip Code
30328

Phone Number
678-553-4502

Email
N/A

II. LOCATION

Facility Name or Company
Vacant Parcel

Facility ID # (If known)
N/A

Street Address
28 W. Main Street

City
Sylva

County
Jackson

Zip Code
28779

Phone Number
N/A

III. CONTACT PERSONNEL

Name:
David Graham

Company Name:
Hart & Hickman, PC

Job Title:
Project Manager

Phone Number:
704-586-0007

IV. TANK REMOVAL, CLOSURE IN PLACE, CHANGE-IN SERVICE

- Contact local fire marshal.
- Plan entire closure event.
- Conduct Site Soil Assessment.
- If removing tanks or closing in place, refer to API Publication 2015 *Cleaning Petroleum Storage Tanks* and 1604 *Removal and Disposal of Used Underground Petroleum Storage Tanks*.
- Provide a sketch locating piping, tanks and soil sampling locations.
- Submit a closure report in the format of UST-12 (including the form UST-2) within thirty (30) days following the site investigation.
- If a release from the tanks has occurred, the site assessment portion of the tank closure must be conducted under the supervision of a P.E. or L.G., with all closure site assessment reports bearing the signature and seal of the P.E. or L.G. If a release has not occurred, the supervision, signature or seal of a P.E. or L.G. is not required.
- Keep closure records for three (3) years.

V. WORK TO BE PERFORMED BY

Contractor Name:
Tony Disher

Contractor Company Name:
EVO Corporation

Address:
1703 Vargrave Street

City:
Winston-Salem

State:
NC

Zip Code:
27107

Phone No:
336-725-5844

Primary Consultant Name:
David Graham, PG

Primary Consultant Company Name:
Hart & Hickman, PC

Consultant Phone No:
704-586-0007

VI. TANKS SCHEDULED FOR CLOSURE OR CHANGE-IN-SERVICE

Tank ID No.	Size in Gallons	Last Contents	Proposed Activity		
			Removal	Closure Abandonment in Place *	Change-In-Service New Contents Stored
1	2000	Unknown	☒	☐	
2	2000	Unknown	☒	☐	
			☐	☐	
			☐	☐	
			☐	☐	

* Prior written approval to abandon a tank in place must be received from a DWM Regional Office.

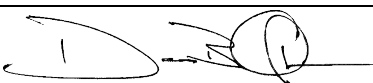
VII. OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE

Has a release from a UST system occurred at this location? ☐ Yes ☐ No ☒ Unknown

I understand that I can be held responsible for environmental damage resulting from the improper disposal of my USTs.

Print name and official title: David Graham - Project Manager for Hart & Hickman, PC as Agent for NC DOT

Signature



Date Signed
January 10,
2025

SCHEDULED REMOVAL DATE
February 3, 2025

Notify your DWM Regional Office 48 hours before this date if scheduled removal date changes

Appendix B
Fire Permit Inspection Approval Email

David Graham

Subject: FW: Jackson County Inspection Results

-----Original Message-----

From: Jackson County Permitting Center <mmurphy@roktch.net>

Sent: Thursday, January 30, 2025 2:55 PM

To: Tony Disher <Tony.Disher@evocorp.net>

Cc: jcpermitcenter@jacksonnc.org

Subject: Jackson County Inspection Results

Greetings from Jackson County Code Enforcement. Please see your inspection results below.

Inspection Results

Job Name: ALPINE SYLVA LLC

Inspection Date:1/30/2025

Permit Number:2025-27950-2-27060

Inspector: Danny Lewis

Inspection Type:Other

Inspection Results:Approved

Notes:

Common Rejections:

Appendix C

Health and Safety Plan

EMERGENCY CONTACT INFORMATION
NC DOT Road Improvement - UST Removals
East and West Main St. Sylva, NC
H&H Job No. ROW-809
January 20, 2025

Emergency Response

- (1) Hospital: (i.e., address and telephone number). **Attach Hospital Route Map or Directions**

Harris Regional Hospital: Emergency Room, 68 Hospital Road, Sylva, NC 28779 Phone: (828) 586-7000 (see attached map)

In the event of an emergency situation on the site, personnel are to immediately notify the appropriate emergency responder (i.e., fire, rescue, police, etc.), and to take any corrective actions or emergency procedures that can be safely performed (i.e., first-aid, CPR, etc.) When conditions permit, onsite personnel must notify the H&H Project Manager and Health & Safety Officer that an incident has occurred. Onsite personnel should review and be familiar with the phone number and location of the nearest hospital (listed above).

- (2) On-site emergency contact person and telephone number:

N/A

- (3) Other emergency contacts as appropriate: (i.e., fire, ambulance, 911, etc.)

- | |
|--|
| <ul style="list-style-type: none">• Ambulance, Fire, & Police - 911• Poison Control – (800) 222-1222• H&H Field Staff – Tyler Shulz – (704) 607-3877• H&H Project Manager – David Graham – (704) 649-5999 (cell)• Shannon Cottrill, Health & Safety Officer (704) 577-8810 (cell)• Client Contact – Ashley Cox – NC DOT (919) 707-6872 (office) |
|--|

- (4) Other non-emergency contacts as appropriate: (i.e., H&H Clinic addresses)

- | |
|--|
| <ul style="list-style-type: none">• Mountain Park Urgent Care: 90 E. Main Street, Sylva, NC (828) 631-3181• Concentra, Steele Creek: 8943 South Tryon St, Suite K, Charlotte, NC 28273 (704) 588-0885• Concentra, Freedom Drive: 4221 Tuckaseegee Road, Charlotte, NC 28208 (704) 395-0060 |
|--|

Site History (Describe what is known about the site. i.e., type of facility, operations, chemicals, etc.).

H&H is under contract to perform UST removal activities at four sites located along Main St. in Sylva, Jackson County, North Carolina. Potential USTs were identified via EM/GPR during Phase II assessment activities in 2022. Monitoring well abandonment activities will also be conducted at three sites on Main Street.	
<u>Parcel ID</u>	<u>Property Owner - Address</u>
Parcel 6	Wholesale Investments LLC – 345 W. Main Street (2 USTs)
Parcel 10	Shirley Sutton – 360 W. Main Street (3 USTs)
Parcel 24	Alpine Sylva LLC – 28 W. Main Street (2 USTs) (MW Aban.)
Parcel 78	Pole Yard Properties, LLC – (MW Abandonments)
Parcel 85	Vision Quest Properties – 741 E. Main Street (MW abandonments)
Parcel 132	Kathy Watkins, Et Al – 1668 E. Main Street (1 UST)

Scope of Work (Describe task(s) to be performed).

The scope of work (SOW) for activities that may be performed at the site by H&H personnel includes the following:
• Oversee utility locate. • Provide oversight during removal of residual fluids and sludge from the UST(s) with a vacuum truck. • After fluid removal, a lower explosion level (LEL) meter will be utilized to monitor for explosive atmospheres in the UST(s). Explosive vapors will be purged from the UST(s) using dry ice (or another equivalent). • Provide oversight for overburden and UST removal. • Collection of soil closure samples from the base of the UST excavation. • Provide oversight while the excavation is being backfilled with on-Site and imported soil. • Contractor will provide lane closure contractor to close eastbound lane on Main St. during closure activities on Parcel 6. • Oversight of drilling subcontractor for well abandonment activities.

Potential Hazards (List known or suspected hazards present on-site and preventative measures. Refer to *Job Safety Analysis* files for reference/assistance).

(1) **Physical Hazards** (i.e., fire, explosion, traffic, slips, trips, and falls, etc.).

Task	Physical Hazards	Action for hazard prevention	Potential for Exposure
Soil Sample Collection	Pinch points, muscle strain, slips/trips, moving vehicles	Wear cut resistant gloves, set up barriers around the work area, use caution and be aware of surface conditions	Low
UST Removal Oversight	Noise, falling items, being struck by large moving equipment	Wear hearing protection, discuss hand signals with equipment operators and trucks, wear proper PPE	High
Oversight of Drilling/Excavation Equipment	Pinch points, noise, falling items, being struck by large, moving equipment, falling into open excavation	Discuss pinch points during kickoff meeting, ear plugs, hard hat, safety vest, establish perimeter around open test pits and backfill immediately.	Medium

(2) Chemical Hazards (i.e., chemicals or products stored on-site).

- Petroleum related volatile organic compounds (VOCs) and/or aromatic compounds may be present in soil, groundwater, and/or soil gas at the site.

<u>Task</u>	<u>Chemical Hazards</u>	<u>Action for hazard prevention</u>	<u>Potential for Exposure to Hazard</u>
Soil sampling	Petroleum VOCs or SVOCs	Don nitrile gloves when contacting soil at the Site.	Medium

(3) Biological Hazards (i.e., toxic insects, poisonous plants, and poisonous snakes).

(4) Other Hazards (i.e., high winds, thunderstorms, hail, lightning, snow, and ice.)

Pedestrian traffic is possible across the Site Vehicle traffic onsite and along Main Street
--

Training

- (1) Minimum Training Required (Review site specific information prior to entering the site).

- 40-hour OSHA HAZWOPER training
- 8-hour OSHA HAZWOPER supervisor training (if required)
- Medical Monitoring Program Participant
- “Fit for Duty” Clearance from Medical Director and current respirator fit test

- (2) Specialized Training or Required Permits (i.e., site specific, or special permits may be necessary).

- The NC One Call 811 and a private utility locator will provide utility location services to identify subsurface utilities during excavation activities.

Personal Protective Equipment (PPE)

- (1) PPE Required: (examples: hard hat, safety glasses with side shields, steel toe boots, Tyvek coveralls, respirator, rubber boots, gloves, etc.).

The following PPE will be required during the performance of site activities:

Safety glasses	At all times during the performance of site work, regardless of the task
Safety shoes/boots	At all times during the performance of site work, regardless of the task
Traffic safety vest	At any time where work is performed in areas of vehicular traffic and heavy equipment, or within 25 ft of such an area
Hearing Protection	At any time where noise levels are above natural ambient levels, at any time when working within 25 ft of operational heavy equipment (i.e., excavators), and at any time when utilizing portable equipment which creates noise levels above natural ambient levels (i.e., drills, saws, etc)
Leather work gloves	At any time the use of hand protection is warranted, including but not limited to, operations involving the use of hand tools
Nitrile gloves	At any time environmental samples are to be collected or contaminated media is being handled
Hard hat	At any time when working within 25ft of operational heavy equipment and when working within a space with limited overhead clearance and/or overhead obstructions (including the basement)
Tyvek® coveralls	At any time where dermal exposure to contaminants is imminent or assured, or where exposure to liquid or solid wastes is likely. The use of Tyvek® coveralls may require the modification of the PPE level established for the site
Respirator	At any time when volatile organic vapor measurements indicate levels at or in excess of the action level established for the site (see Exposure Monitoring below). When used, the appropriate respirator cartridge must be used (i.e., organic vapor). Consultation with the Project Manager and Health & Safety Officer is <u>required</u> prior to the use of a respirator.

NOTE: EACH OR ANY COMBINATION OF EACH OF THESE FORMS OF PPE MUST BE UTILIZED IN ACCORDANCE WITH CLIENT SPECIFIC HEALTH AND SAFETY REQUIREMENTS, IF APPLICABLE.

Exposure Monitoring (Describe exposure monitoring to be conducted).

During drilling and intrusive sampling activities, a photoionization detector (PID) shall be utilized to monitor potential exposure to volatile organic vapors. Monitoring of potential volatile organic vapors will be conducted within the breathing zone (i.e., 4 to 6 ft above ground surface), and will be conducted periodically during each day. A minimum of a single measurement within the breathing zone in the work area(s) should be performed, and data obtained through the performance of this monitoring shall be recorded in the field book, noting the date, time, location and measurement obtained. More frequent vapor monitoring should be conducted as conditions warrant (i.e., recognition of offensive odors).

As a PID detects numerous volatile organic vapors and is not specific to a particular compound, the action level for organic vapors as monitored with the PID at the site is established at a level of 0.5 parts per million (ppm), above background levels. This level is the acceptable OSHA time weighted average (TWA) limit for benzene (NIOSH, Pocket Guide to Chemical Hazards, September 2005).

- If little to no work has been performed previously at the site use VC (TWA=1ppm).
- If more comprehensive site characterization info is available, and no VC is present, action level may be increased to match appropriate hazardous compound.
- If this level is observed or exceeded within the breathing zone for more than 1 minute, operations are to be suspended and personnel will move up wind of the work area until levels dissipate.
- If volatile organic vapor levels do not dissipate in the work area, contact the Project Manager and Health & Safety Officer, ventilation measures may be necessary in the work area and/or the required PPE may be modified to include donning of an appropriate respirator.

Note: Calibration, frequency of calibration, and use of the PID must be performed in accordance with the manufacturer's specifications.

Decontamination (Evaluate the need for decontamination, describe procedures, etc.)

Driller's sampling devices (i.e., screen-point samplers, sampling rods, stainless steel hand augers, and probe rods) shall be decontaminated in accordance with Section 9.1, *Field Equipment Decontamination Procedure*, of the. Decontamination is to be performed within a dedicated decontamination area. Decontamination fluids and waste materials will be properly contained for offsite disposal. All other sampling equipment shall be disposed of (i.e., nitrile gloves, DPT sleeves).

Dedicated or disposable sampling apparatus will be properly contained for disposal if it has come into contact with hazardous materials or suspect hazardous materials. If dedicated or disposable equipment can be properly decontaminated after use, it may be disposed of as non-hazardous in an appropriate container after decontamination.

Site Control (Evaluate the need for site control to protect persons from exposure to hazardous conditions; i.e., work permits, cones, barricade tape, etc.).

H&H personnel shall take necessary measures to maintain site control and limit exposure of persons to hazardous conditions or hazardous materials. As needed, H&H shall establish work areas to be demarked with traffic cones, barricades, caution tape, or other appropriate measures.

In general, a minimum perimeter of 25 ft should be established around the work area by one or more of the control measures listed above. Where possible, operations will not be conducted in a manner which increases personnel or subcontract exposure to traffic or other hazards.

No unauthorized personnel are to be allowed in the work areas during operations.

Safety Briefings

Safety briefings will be held on each day during which site work is performed. A minimum of one daily safety briefing will be held on the site by all personnel involved in site operations. Additional safety briefings will be conducted as site conditions or hazards change, when returning to the site following breaks in operation such as lunch or weekends, or at other appropriate times to be determined by on-site personnel or the Project Manager.

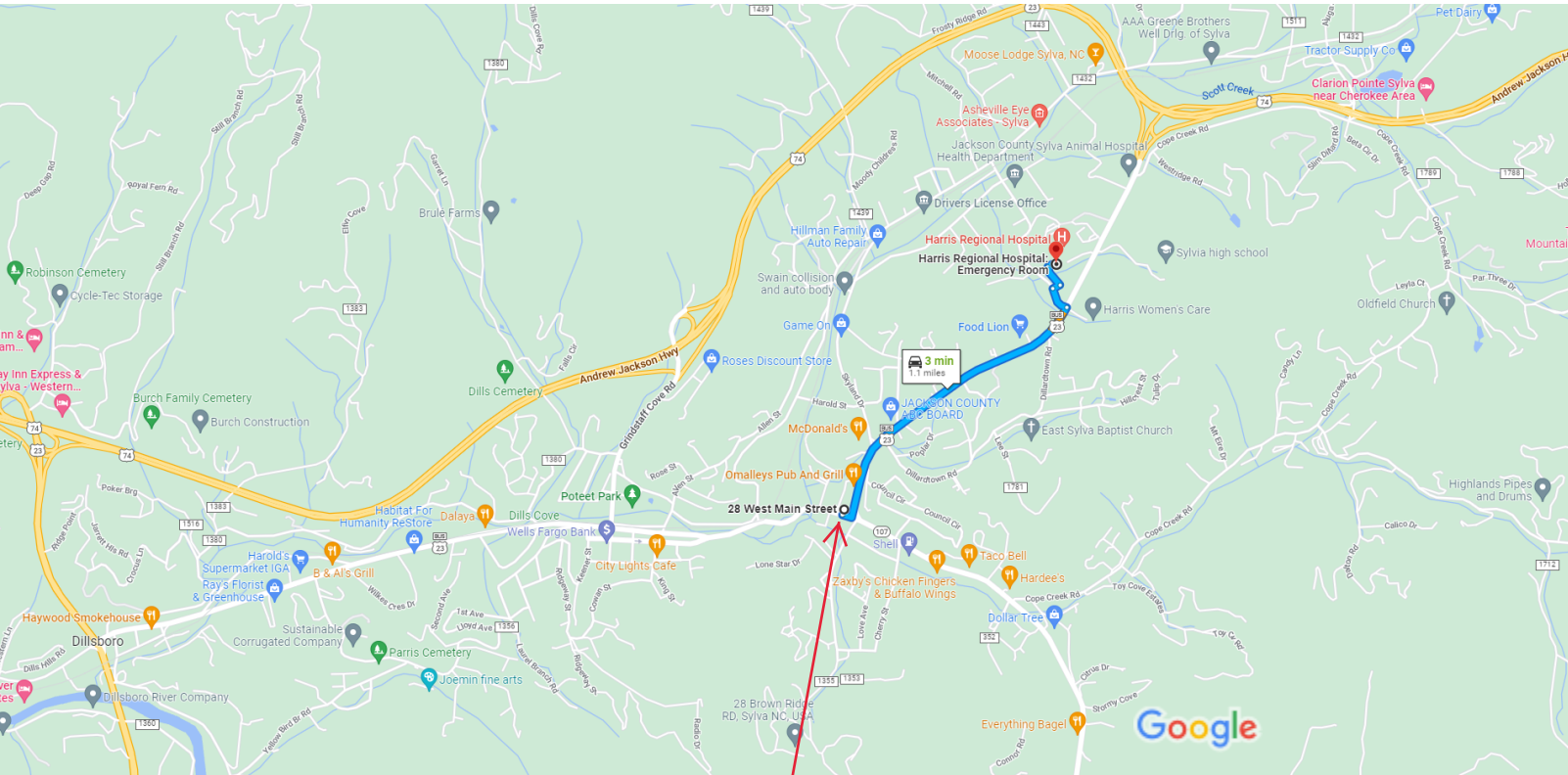
Records of these safety meetings will be noted on the safety briefing log sheets (provided at the end of this document) and in the field book, and will include the date and time of the briefing, names and affiliations of attendees, and any pertinent subjects of discussion.

Additional Information/Notes (Please enter any pertinent information that may be relevant for the site, this is to be executed before and after site visits. Information may include items like gate instructions, etc.)

Date executed: January 20, 2025

Prepared by David Graham

[Insert Hospital Directions and Map]



From Parcel 24
28 W Main St
Sylva, NC 28779

Parcel 24 28 W.
Main Street

- ↑ 1. Head east on W Main St
13 ft
- ↩ 2. Turn left onto US-23 BUS N
Pass by JACKSON COUNTY ABC BOARD (on the left in 0.3 mi)
0.9 mi
- ↩ 3. Turn left onto Hospital Rd
387 ft
- ➡ 4. Turn right
125 ft
- ↩ 5. Turn left
338 ft
- ➡ 6. Turn right
Destination will be on the right
82 ft

Harris Regional Hospital: Emergency Room
68 Hospital Rd, Sylva, NC 28779

[Insert Safety Briefing Forms]

Tail-Gate Safety Briefing Attendance Log

Name

Date

[Insert Near Miss Forms]

NEAR MISS REPORT

A near miss is a potential hazard or incident that has not resulted in personal injury. Unsafe working conditions, unsafe employee work habits, improper use of equipment or use of malfunctioning equipment have the potential to cause work related injuries. It is everyone's responsibility to report and /or correct these potential accidents/incidents immediately. Please complete this form as a means to report these near-miss situations.

Location _____ Date _____

Time _____ ☐ am ☐ pm

Please check all appropriate conditions:

☐

Unsafe Act

☐

Unsafe equipment

☐

Unsafe Condition

☐

Unsafe use of equipment

Description of incident or potential hazard: _____

Employee Signature _____ Date _____
(optional)

NEAR MISS INVESTIGATION

Description of the near-miss condition: _____

Root Causes (primary & contributing): _____

Corrective action taken (Remove the hazard, replace, repair, or retrain in the proper procedures for the task)

Signed _____ Date Completed _____

Not completed for the following reason: _____

Management _____ Date _____

ACCIDENT / EXPOSURE REPORT FORM

EMPLOYEE NAME _____ DATE OF BIRTH _____
HOME ADDRESS _____ PHONE NO. _____
SEX: MALE __ FEMALE __ JOB TITLE _____ SOC. SEC. NO. _____
OFFICE NO. _ OFFICE LOCATION _____ DATE OF HIRE _____
HOURS USUALLY WORKED: HOURS PER DAY _____ HOURS PER WEEK _____
TOTAL HOURS WEEKLY _____

WHERE DID ACCIDENT, OR EXPOSURE OCCUR? (INCLUDE ADDRESS) _____

COUNTY _____ ON EMPLOYER'S PREMISES? YES _____ NO _____

WHAT WAS EMPLOYEE DOING WHEN THE ACCIDENT OCCURRED? (BE SPECIFIC) _

HOW DID THE ACCIDENT OR EXPOSURE OCCUR? (DESCRIBE FULLY) _____

WHAT STEPS COULD BE TAKEN TO PREVENT SUCH AN OCCURRENCE? _____

OBJECT OR SUBSTANCE THAT DIRECTLY INJURED EMPLOYEE _____

DESCRIBE THE INJURY OR ILLNESS _____

PART OF BODY AFFECTED _____

NAME AND ADDRESS OF PHYSICIAN _____

IF HOSPITALIZED, NAME AND ADDRESS OF HOSPITAL _____

DATE OF INJURY/ILLNESS _____ TIME OF DAY _____

LOSS OF ONE OR MORE DAY OR WORK? YES/NO _____

IF YES, DATE LAST WORKED _____

HAS EMPLOYEE RETURNED TO WORK? _____ IF YES, DATE RETURNED _____

DID EMPLOYEE DIE? _____ IF YES, DATE _____

COMPLETED BY (PRINT) _____

SIGNATURE _____

TITLE _____ DATE _____

AN ACCIDENT, EXPOSURE REPORT MUST BE COMPLETED BY THE SUPERVISOR OR SITE SAFETY OFFICER IMMEDIATELY UPON LEARNING OF THE INCIDENT. THE COMPLETED REPORT MUST BE IMMEDIATELY TRANSMITTED TO THE MANAGER, HEALTH & SAFETY.

Appendix D
Certificate of Disposal and Non-Hazardous Materials Manifest (Liquid)



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

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 1,060 gallons of non-hazardous contaminated water received on 1/30/2025 from:

Generator: NC Department of Transportation (NC DOT)

Originating at: 28 W. Main Street (Parcel 024)
Sylva, Jackson County, NC

EC Waste ID #: 012527

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. 20272

GENERATOR INFORMATION

Generator: NCDOT
Site Address: 28 W. Main St
City/State: Sylva, NC

Phone: 919-707-6872
Contact: Ashley Cox, Jr.

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): _____
Empty Weight (lbs): _____
Net Weight (lbs): _____

Material: ~~Product~~ Water JTK
Contaminant: Gasoline/Diesel

Quantity

1060

Tons Drums Pails Sacs Yards Other: gallons

TRANSPORTER INFORMATION

Transporter: Evo Corporation
Truck #: 419

Phone: 336-725-5844
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: 1-30-25

FACILITY INFORMATION

Evo Corporation

1703 Vargrave Street

Winston-Salem NC 27107

Evo Project #: 012527

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: 1/30/25

White/Facility

Canary/Invoice

Pink/Carrier

Appendix E
Tank Disposal Certificate



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

TANK DISPOSAL CERTIFICATE

Tank Owner: NC Department of Transportation (NC DOT)

Site Address: 28 W. Main Street (Parcel 024)
Sylva, Jackson County, NC

Description of Tanks:

<u>Tank Number</u>	<u>Size of Tank</u>	<u>Contents</u>
1	750 Gallons	Gasoline
2	750 Gallons	Gasoline

Transporter: Evo Corporation

EC Project #: 012527

Disposal Certification:

Evo Corporation does hereby certify that the above named storage tanks were transported to Metalwood Recycling, 656 Skyland Road, Sylva, NC for proper disposal and recycling.

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

Appendix F
Site Investigation Report for Permanent Closure or Change-in-Service of
Un-Registered UST (UST-2B Form)

UST-2B

Site Investigation Report for Permanent Closure or Change-in-Service of UN-REGISTERED UST



Return completed form to:

NC DEQ / DWM / UST SECTION
1646 MAIL SERVICE CENTER
RALEIGH, NC 27699-1646
ATTN: REGISTRATION & PERMITTING

phone (919) 707-8171 fax (919) 715-1117 <http://www.wastenotnc.org/>

Facility ID #

STATE USE ONLY:

Date Received

INSTRUCTIONS (READ THIS FIRST)

1. UST permanent closure or change in service must be completed in accordance with the latest version of the Guidelines for Site Checks, Tank Closure and Initial Response and Abatement. The guidelines can be obtained at <http://deq.nc.gov/about/divisions/waste-management/waste-management-permit-guidance/underground-storage-tanks-section>.
2. Permanent closure: Complete all sections of this form.
3. Change-in-service: Where UST systems will be converted from storing a regulated substance to a non-regulated substance, complete sections I, II, III, IV, and VI.
4. For more than 5 un-registered UST systems, attach additional forms as needed.
5. **Un-Registered USTs may be subject to unpaid fees and late penalties.**
6. REGISTERED USTs use Form UST-2A.

I. OWNERSHIP OF TANKS

Owner Name (Corporation, Individual, Public Agency, or Other Entity)

Alpine Sylva, LLC

Street Address

1 Glenlake Parkway, Ste 1050

City

Atlanta

County

Fulton

State

GA

Zip Code

30328

Phone Number

678-553-4502

II. LOCATION OF TANKS

Facility Name or Company

Unknown (vacant)

Facility ID # (if known)

NA

Street Address

28 W. Main Street

City

Sylva

County

Jackson

Zip Code

28779

Phone Number

NA

III. CONTACT PERSONNEL

Contact for Facility:

Alpine Sylva, LLC

Job Title:

Owner

Phone #:

678-553-4502

Closure Contractor Name:

Tony Disher

Closure Contractor Company:

EVO Corporation

Address:

Winston-Salem, NC

Phone #

336-725-5844

Primary Consultant Name:

David Graham, PG

Primary Consultant Company:

Hart & Hickman, PC

Address:

Charlotte, NC

Phone #

704-586-0007

IV. UST INFORMATION FOR UN-REGISTERED UST SYSTEMS

REGISTERED USTs use Form UST-2A.

V. EXCAVATION CONDITION

Tank ID No.	Size in Gallons	Last Contents	Last Use Date	Permanent Close Date	Method of Permanent Closure: Indicate REMOVED or enter fill material, such as foam/ concrete/ sand	Change-in-Service Date	Water in excavation		Free product		Notable odor or visible soil contamination	
							Yes	No	Yes	No	Yes	No
UST-1	750	Gasoline	N/A	1/30/25	Removed		☐	☒	☐	☒	☐	☒
UST-2	750	Gasoline	N/A	1/30/25	Removed		☐	☒	☐	☒	☐	☒
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐

VI. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true accurate and complete.

Print name and official title of owner or owner's authorized representative

David Graham, PG - Project Manager - Hart & Hickman, PC for NC DOT

Signature

Date Signed

March 21, 2025

Appendix G
Certificate of Disposal, Non-Hazardous Materials Manifest, and Certified Weight
Ticket (Soil)



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

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 16.20 tons of non-hazardous contaminated material received on 1/31/2025 from:

Generator: NC Department of Transportation (NC DOT)

Originating at: 28 W. Main Street (Parcel 024)
Sylva, Jackson County, NC

EC Waste ID #: 012527

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. 20270

GENERATOR INFORMATION

Generator: NCDOT
Site Address: 28 W. Main St
City/State: Sylva, NC

Phone: 919-707-6872
Contact: Ashley Cox, Jr.

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): 66620 Material: Soil
Empty Weight (lbs): 34220 Contaminant: Gasoline/Diesel
Net Weight (lbs): 32400

Quantity

16.20

Tons

Drums

Pails

Sacs

Yards

Other: _____

TRANSPORTER INFORMATION

Transporter: Evo Corporation
Truck #: 224-315

Phone: 336-725-5844
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: 1-31-25

FACILITY INFORMATION

Evo Corporation
1703 Vargrave Street
Winston-Salem NC 27107

Evo Project #: 012527
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: 1-31-25

White/Facility

Canary/Invoice

Pink/Carrier

1196525031435
TICKET NUMBER



**CERTIFIED
AUTOMATED
TRUCK
SCALE**

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(877) 228-7225
www.catscale.com

DATE: 1-31-25

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash. ©

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

- (1) Reimburse you for the cost of the overweight fine if our scale is wrong, **OR**
- (2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

- 1) Post bond and request a court date.
- 2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions.
- 3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

SCALE: 1965
LOCATION: LOVES COUNTRY STORES

I 40 EXIT 154
STATESVILLE NC

STEER AXLE	9860 lb
DRIVE AXLE	27520 lb
TRAILER AXLE	29240 lb
* GROSS WEIGHT	66620 lb

PUBLIC WEIGHMASTER'S
CERTIFICATE OF
WEIGHT & MEASURE



This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

WEIGH NUMBER
1435

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLES WEIGHED

FREIGHT ALL KINDS

COMPANY EVO

TRACTOR # 224

TRAILER # 315

FEE \$14.00

WEIGHMASTER OR
WEIGHER SIGNATURE

FULL WEIGH
TICKET #
(IF REWEIGH)

Patent Pending

© CAT Scale® Reg 3187 05/24

Appendix H
Laboratory Analytical Data Report

2/26/2025

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC, 28203

Ref: Analytical Testing
Revised Lab Report Number: 25-034-0007 (Original Report Date 2/11/2025)
Client Project Description: ROW-809 Parcel 24
Sylva, NC

Dear David Graham:

Waypoint Analytical, LLC (Charlotte) received sample(s) on 1/31/2025 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2021) unless otherwise indicated.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,



Angela D Overcash
Senior Project Manager

Certification Summary

Laboratory ID: WP CNC: Waypoint Analytical Carolina, Inc. (Charlotte), Charlotte, NC

State	Program	Lab ID	Expiration Date
North Carolina	State Program	37735	07/31/2025
North Carolina	State Program	402	12/31/2025
South Carolina	State Program	99012	07/31/2025
South Carolina	State Program	99012	12/31/2024

Laboratory ID: WP MTN: Waypoint Analytical, LLC. (Memphis), Memphis, TN

State	Program	Lab ID	Expiration Date
Alabama	State Program	40750	02/28/2025
Arkansas	State Program	88-0650	02/07/2025
California	State Program	2904	06/30/2025
Florida	State Program - NELAP	E871157	06/30/2025
Georgia	State Program	C044	11/14/2025
Georgia	State Program	04015	06/30/2025
Illinois	State Program - NELAP	200078	10/31/2025
Kentucky	State Program	KY90047	12/31/2025
Kentucky	State Program	80215	06/30/2025
Kentucky	State Program	KY90047	12/31/2025
Louisiana	State Program - NELAP	LA037	12/31/2025
Louisiana	State Program - NELAP	04015	06/30/2025
Mississippi	State Program	MS	11/14/2025
North Carolina	State Program	47701	07/31/2025
North Carolina	State Program	415	12/31/2025
Pennsylvania	State Program - NELAP	68-03195	05/31/2025
South Carolina	State Program	84002	06/30/2025
Tennessee	State Program	02027	11/14/2025
Texas	State Program - NELAP	T104704180	09/30/2025
Virginia	State Program	00106	06/30/2025
Virginia	State Program - NELAP	460181	09/14/2025

Sample Summary Table

Report Number: 25-034-0007
Client Project Description: ROW-809 Parcel 24
Sylva, NC

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
91624	SW-1	Solids	01/30/2025 13:00	01/31/2025 15:11		
91624	SW-1	Solids	01/30/2025 13:00	01/31/2025 15:11	8015C DRO	WP MTN
91624	SW-1	Solids	01/30/2025 13:00	01/31/2025 15:11	8270E	WP MTN
91624	SW-1	Solids	01/30/2025 13:00	01/31/2025 15:11	MADEP-EPH	WP MTN
91625	SW-2	Solids	01/30/2025 13:05	01/31/2025 15:11		
91625	SW-2	Solids	01/30/2025 13:05	01/31/2025 15:11	8015C DRO	WP MTN
91625	SW-2	Solids	01/30/2025 13:05	01/31/2025 15:11	MADEP-EPH	WP MTN
91625	SW-2	Solids	01/30/2025 13:05	01/31/2025 15:11	8270E	WP MTN
91626	SW-3	Solids	01/30/2025 13:10	01/31/2025 15:11		
91626	SW-3	Solids	01/30/2025 13:10	01/31/2025 15:11	8015C DRO	WP MTN
91627	SW-4	Solids	01/30/2025 13:15	01/31/2025 15:11		
91627	SW-4	Solids	01/30/2025 13:15	01/31/2025 15:11	8015C DRO	WP MTN
91628	SW-5	Solids	01/30/2025 13:20	01/31/2025 15:11		
91628	SW-5	Solids	01/30/2025 13:20	01/31/2025 15:11	8015C DRO	WP MTN
91628	SW-5	Solids	01/30/2025 13:20	01/31/2025 15:11	MADEP-EPH	WP MTN
91628	SW-5	Solids	01/30/2025 13:20	01/31/2025 15:11	8270E	WP MTN
91629	SW-6	Solids	01/30/2025 13:25	01/31/2025 15:11		
91629	SW-6	Solids	01/30/2025 13:25	01/31/2025 15:11	8270E	WP MTN
91629	SW-6	Solids	01/30/2025 13:25	01/31/2025 15:11	8015C DRO	WP MTN
91629	SW-6	Solids	01/30/2025 13:25	01/31/2025 15:11	MADEP-EPH	WP MTN

Summary of Detected Analytes

Project: ROW-809 Parcel 24

Report Number: 25-034-0007

Client Sample ID	Lab Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
SW-1	V 91624					
8015C DRO	Diesel Range Organics (C10-C28)	2150	mg/Kg - dry	151	02/08/2025 23:27	
8015C GRO	Gasoline Range Organics (C6-C10)	191	mg/Kg - dry	2.79	02/07/2025 01:03	
8260D	n-Butylbenzene	0.060	mg/Kg - dry	0.0007	02/13/2025 20:01	M
8260D	sec-Butyl benzene	0.067	mg/Kg - dry	0.0008	02/13/2025 20:01	M
8260D	tert-Butyl benzene	0.009	mg/Kg - dry	0.0007	02/13/2025 20:01	M
8260D	Carbon Disulfide	0.001	mg/Kg - dry	0.0009	02/13/2025 20:01	J
8260D	Ethylbenzene	0.022	mg/Kg - dry	0.0008	02/13/2025 20:01	M
8260D	Isopropylbenzene	0.037	mg/Kg - dry	0.0006	02/13/2025 20:01	
8260D	n-Propylbenzene	0.092	mg/Kg - dry	0.0007	02/13/2025 20:01	M
8260D	1,2,4-Trimethylbenzene	0.001	mg/Kg - dry	0.0007	02/13/2025 20:01	J
8270E	1-Methylnaphthalene	0.581	mg/Kg - dry	0.022	02/17/2025 18:12	
MADEP-EPH	Aliphatic C9-C18	197	mg/Kg - dry	15.9	02/24/2025 12:04	
MADEP-EPH	Aliphatic C19-C36	3.01	mg/Kg - dry	1.28	02/21/2025 22:01	J
MADEP-EPH	Aromatic C11-C22	2920	mg/Kg - dry	532	02/24/2025 11:21	
MADEP-VPH	Aliphatic C5-C8	63.0	mg/Kg - dry	8.18	02/14/2025 17:05	
MADEP-VPH	Aliphatic C9-C12	602	mg/Kg - dry	30.7	02/14/2025 17:05	
MADEP-VPH	Aromatic C9-C10	188	mg/Kg - dry	4.20	02/14/2025 17:05	
SW-DRYWT	Moisture	25.7	%		02/04/2025 14:22	
SW-2	V 91625					
8015C DRO	Diesel Range Organics (C10-C28)	349	mg/Kg - dry	26.6	02/08/2025 23:51	
8015C GRO	Gasoline Range Organics (C6-C10)	237	mg/Kg - dry	2.90	02/07/2025 01:31	
8260D	Acetone	0.087	mg/Kg - dry	0.003	02/13/2025 20:29	
8260D	n-Butylbenzene	0.025	mg/Kg - dry	0.0007	02/13/2025 20:29	M
8260D	sec-Butyl benzene	0.024	mg/Kg - dry	0.0008	02/13/2025 20:29	M
8260D	tert-Butyl benzene	0.003	mg/Kg - dry	0.0007	02/13/2025 20:29	JM
8260D	Ethylbenzene	0.005	mg/Kg - dry	0.0008	02/13/2025 20:29	JM
8260D	Isopropylbenzene	0.010	mg/Kg - dry	0.0006	02/13/2025 20:29	
8260D	n-Propylbenzene	0.033	mg/Kg - dry	0.0008	02/13/2025 20:29	M
8260D	1,2,4-Trimethylbenzene	0.001	mg/Kg - dry	0.0007	02/13/2025 20:29	J
8270E	1-Methylnaphthalene	0.204	mg/Kg - dry	0.023	02/17/2025 19:45	
8270E	2-Methylnaphthalene	0.208	mg/Kg - dry	0.013	02/17/2025 19:45	
MADEP-EPH	Aliphatic C9-C18	209	mg/Kg - dry	16.5	02/24/2025 13:31	
MADEP-EPH	Aliphatic C19-C36	2.83	mg/Kg - dry	1.33	02/21/2025 22:22	J
MADEP-EPH	Aromatic C11-C22	6.47	mg/Kg - dry	5.54	02/21/2025 22:22	J
MADEP-VPH	Aliphatic C5-C8	84.3	mg/Kg - dry	17.1	02/14/2025 17:29	J
MADEP-VPH	Aliphatic C9-C12	1170	mg/Kg - dry	64.0	02/14/2025 17:29	

Summary of Detected Analytes

Project: ROW-809 Parcel 24

Report Number: 25-034-0007

Client Sample ID	Lab Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
SW-2	V 91625					
MADEP-VPH	Aromatic C9-C10	150	mg/Kg - dry	8.75	02/14/2025 17:29	
SW-DRYWT	Moisture	28.7	%		02/04/2025 14:22	
SW-3	V 91626					
8015C DRO	Diesel Range Organics (C10-C28)	10.1	mg/Kg - dry	2.54	02/09/2025 00:14	
SW-DRYWT	Moisture	25.3	%		02/04/2025 14:22	
SW-4	V 91627					
8015C DRO	Diesel Range Organics (C10-C28)	6.66	mg/Kg - dry	2.67	02/09/2025 00:37	
8015C GRO	Gasoline Range Organics (C6-C10)	11.5	mg/Kg - dry	2.91	02/07/2025 02:28	
SW-DRYWT	Moisture	28.8	%		02/04/2025 14:22	
SW-5	V 91628					
8015C DRO	Diesel Range Organics (C10-C28)	608	mg/Kg - dry	26.6	02/09/2025 01:01	
8015C GRO	Gasoline Range Organics (C6-C10)	104	mg/Kg - dry	2.90	02/07/2025 02:57	
8260D	Acetone	0.058	mg/Kg - dry	0.003	02/13/2025 20:55	
8260D	n-Butylbenzene	0.001	mg/Kg - dry	0.0007	02/13/2025 20:55	JM
8270E	1-Methylnaphthalene	0.344	mg/Kg - dry	0.023	02/17/2025 20:04	
8270E	2-Methylnaphthalene	0.373	mg/Kg - dry	0.013	02/17/2025 20:04	
8270E	Naphthalene	0.299	mg/Kg - dry	0.015	02/17/2025 20:04	
MADEP-EPH	Aliphatic C9-C18	518	mg/Kg - dry	16.5	02/24/2025 13:52	
MADEP-EPH	Aliphatic C19-C36	5.32	mg/Kg - dry	1.33	02/21/2025 22:43	J
MADEP-EPH	Aromatic C11-C22	86.7	mg/Kg - dry	5.53	02/21/2025 22:43	
MADEP-VPH	Aliphatic C9-C12	669	mg/Kg - dry	31.9	02/14/2025 17:53	
MADEP-VPH	Aromatic C9-C10	148	mg/Kg - dry	4.37	02/14/2025 17:53	
SW-DRYWT	Moisture	28.6	%		02/04/2025 14:22	
SW-6	V 91629					
8015C DRO	Diesel Range Organics (C10-C28)	319	mg/Kg - dry	25.0	02/07/2025 21:24	
8260D	n-Butylbenzene	0.007	mg/Kg - dry	0.001	02/13/2025 21:22	JM
8260D	sec-Butyl benzene	0.008	mg/Kg - dry	0.001	02/13/2025 21:22	JM
8260D	Ethylbenzene	0.009	mg/Kg - dry	0.001	02/13/2025 21:22	JM
8260D	n-Hexane	0.007	mg/Kg - dry	0.001	02/13/2025 21:22	J
8260D	Isopropylbenzene	0.007	mg/Kg - dry	0.0009	02/13/2025 21:22	J
8260D	n-Propylbenzene	0.011	mg/Kg - dry	0.001	02/13/2025 21:22	M
8270E	1-Methylnaphthalene	0.077	mg/Kg - dry	0.022	02/17/2025 20:22	J
8270E	2-Methylnaphthalene	0.110	mg/Kg - dry	0.012	02/17/2025 20:22	
8270E	Naphthalene	0.063	mg/Kg - dry	0.014	02/17/2025 20:22	J

Summary of Detected Analytes

Project: ROW-809 Parcel 24

Report Number: 25-034-0007

Client Sample ID	Lab Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
SW-6	V 91629					
MADEP-EPH	Aliphatic C9-C18	15.0	mg/Kg - dry	1.55	02/21/2025 23:04	
MADEP-EPH	Aliphatic C19-C36	3.35	mg/Kg - dry	1.25	02/21/2025 23:04	J
MADEP-EPH	Aromatic C11-C22	20.6	mg/Kg - dry	5.20	02/21/2025 23:04	
MADEP-VPH	Aliphatic C9-C12	16.7	mg/Kg - dry	6.01	02/13/2025 22:33	
MADEP-VPH	Aromatic C9-C10	3.56	mg/Kg - dry	0.822	02/13/2025 22:33	J
SW-DRYWT	Moisture	24.1	%		02/04/2025 14:22	



Client: Hart & Hickman (Charlotte)
Project: ROW-809 Parcel 24
Lab Report Number: 25-034-0007
Date: 2/26/2025

CASE NARRATIVE

Report Comments

Revised Report: Revision One
Tests have been added to samples.

Total Petroleum Hydrocarbons - Extractable Method 8015C DRO

Sample 91644

QC Batch No: L798798/L798453

Surrogate(s) was flagged for recovery outside QC limits in this project sample. This sample was re-analyzed for verification, and/or dilution of target analytes. Batch QC samples (method blank and laboratory control samples) all showed surrogates within QC limits.

Volatile Organic Compounds - GC/MS Method 8260D

Analyte: 1,1,2,2-Tetrachloroethane

QC Batch No: V56279/V56274

Recovery for the LCS exceeded the upper acceptance limit. However, all sample results associated with the batch are below the MQL, so this high bias had no impact upon the client data. The results are considered to be acceptable.

Analyte: 1,1,2-Trichloroethane

QC Batch No: V56279/V56274

Recovery for the LCS exceeded the upper acceptance limit. However, all sample results associated with the batch are below the MQL, so this high bias had no impact upon the client data. The results are considered to be acceptable.

Analyte: 1,2-Dibromoethane

QC Batch No: V56279/V56274

Recovery for the LCS exceeded the upper acceptance limit. However, all sample results associated with the batch are below the MQL, so this high bias had no impact upon the client data. The results are considered to be acceptable.

Analyte: 1,2-Dichloroethane

QC Batch No: V56279/V56274

Recovery for the LCS exceeded the upper acceptance limit. However, all sample results associated with the batch are below the MQL, so this high bias had no impact upon the client data. The results are considered to be acceptable.

Analyte: 1,3,5-Trimethylbenzene

QC Batch No: V56279/V56274

This target analyte was flagged for recovery outside QC limits in the associated CCV. Data for this analyte is flagged "M" to indicate that results should be considered minimum concentration due to the potential for a low bias.

Analyte: 1,3-Dichloropropane

QC Batch No: V56279/V56274

Recovery for the LCS exceeded the upper acceptance limit. However, all sample results associated with the batch are below the MQL, so this high bias had no impact upon the client data. The results are considered to be acceptable.

Sample 91624 (SW-1)

Analyte: 4-Bromofluorobenzene

QC Batch No: V56279/V56274

Surrogate recovery(s) was flagged as outside QC limits due to high levels of target and/or non-target analytes.

Batch QC samples (method blank and laboratory control samples) all showed surrogates within QC limits.

Sample 91625 (SW-2)

Analyte: 4-Bromofluorobenzene

QC Batch No: V56279/V56274

Surrogate recovery(s) was flagged as outside QC limits due to high levels of target and/or non-target analytes.

Batch QC samples (method blank and laboratory control samples) all showed surrogates within QC limits.

Analyte: 4-Isopropyltoluene

QC Batch No: V56279/V56274

This target analyte was flagged for recovery outside QC limits in the associated CCV. Data for this analyte is flagged "M" to indicate that results should be considered minimum concentration due to the potential for a low bias.

Analyte: 4-Methyl-2-pentanone

QC Batch No: V56279/V56274

Recovery for the LCS exceeded the upper acceptance limit. However, all sample results associated with the batch are below the MQL, so this high bias had no impact upon the client data. The results are considered to be acceptable.

Analyte: Acetone

QC Batch No: V56279/V56274

This target analyte was flagged for recoveries outside QC limits in the associated CCV. Results should be considered estimated due to the potential for a high bias.

Analyte: Acrolein

QC Batch No: V56279/V56274

Recovery for the LCS exceeded the upper acceptance limit. However, all sample results associated with the batch are below the MQL, so this high bias had no impact upon the client data. The results are considered to be acceptable.

Analyte: Acrylonitrile

QC Batch No: V56279/V56274

Recovery for the LCS exceeded the upper acceptance limit. However, all sample results associated with the batch are below the MQL, so this high bias had no impact upon the client data. The results are considered to be acceptable.

Analyte: Chlorodibromomethane

QC Batch No: V56279/V56274

Recovery for the LCS exceeded the upper acceptance limit. However, all sample results associated with the batch are below the MQL, so this high bias had no impact upon the client data. The results are considered to be acceptable.

Analyte: Dibromomethane

QC Batch No: V56279/V56274

Recovery for the LCS exceeded the upper acceptance limit. However, all sample results associated with the batch are below the MQL, so this high bias had no impact upon the client data. The results are considered to be acceptable.

Analyte: Dichlorodifluoromethane

QC Batch No: V56279/V56274

Relative Percent Difference (RPD) for the duplicate analysis was outside of the allowable QC limits.

Analyte: Ethanol

QC Batch No: V56279/V56274

Recovery for the LCS exceeded the upper acceptance limit. However, all sample results associated with the batch are below the MQL, so this high bias had no impact upon the client data. The results are considered to be acceptable.

Analyte: Ethylbenzene

QC Batch No: V56279/V56274

This target analyte was flagged for recovery outside QC limits in the associated CCV. Data for this analyte is flagged "M" to indicate that results should be considered minimum concentration due to the potential for a low bias.

Analyte: Hexachlorobutadiene

QC Batch No: V56279/V56274

This target analyte was flagged for recoveries outside QC limits in the associated LCS/LCSD. Data for this analyte is flagged "M" to indicate that results should be considered minimum concentration due to the potential for a low bias.

Analyte: Methyl tert-butyl ether (MTBE)

QC Batch No: V56279/V56274

Recovery for the LCS exceeded the upper acceptance limit. However, all sample results associated with the batch are below the MQL, so this high bias had no impact upon the client data. The results are considered to be acceptable.

Analyte: n-Butylbenzene

QC Batch No: V56279/V56274

This target analyte was flagged for recoveries outside QC limits in the associated LCS/LCSD. Data for this analyte is flagged "M" to indicate that results should be considered minimum concentration due to the potential for a low bias.

Analyte: n-Propylbenzene

QC Batch No: V56279/V56274

This target analyte was flagged for recovery outside QC limits in the associated CCV. Data for this analyte is flagged "M" to indicate that results should be considered minimum concentration due to the potential for a low bias.

Analyte: sec-Butylbenzene

QC Batch No: V56279/V56274

This target analyte was flagged for recovery outside QC limits in the associated CCV. Data for this analyte is flagged "M" to indicate that results should be considered minimum concentration due to the potential for a low bias.

Analyte: tert-Butylbenzene

QC Batch No: V56279/V56274



This target analyte was flagged for recovery outside QC limits in the associated CCV. Data for this analyte is flagged "M" to indicate that results should be considered minimum concentration due to the potential for a low bias.

Analyte: trans-1,3-Dichloropropene

QC Batch No: V56279/V56274

Recovery for the LCS exceeded the upper acceptance limit. However, all sample results associated with the batch are below the MQL, so this high bias had no impact upon the client data. The results are considered to be acceptable.

Analyte: Trichlorofluoromethane

QC Batch No: V56279/V56274

This target analyte was flagged for recovery outside QC limits in the associated CCV. Data for this analyte is flagged "M" to indicate that results should be considered minimum concentration due to the potential for a low bias.

Analyte: Vinyl acetate

QC Batch No: V56279/V56274

Recovery for the LCS exceeded the upper acceptance limit. However, all sample results associated with the batch are below the MQL, so this high bias had no impact upon the client data. The results are considered to be acceptable.

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91624**

Matrix: **Solids**

Sample ID : **SW-1**

Sampled: **1/30/2025 13:00**

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Method
Moisture	25.7	%			1	02/04/25 14:22	CJR	SW-DRYWT

**Qualifiers/
Definitions**

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91624**

Matrix: **Solids**

Sample ID : **SW-1**

Sampled: **1/30/2025 13:00**

Analytical Method: 8015C DRO

Prep Batch(es): **L798453** 02/06/25 08:00

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Diesel Range Organics (C10-C28)	2150	mg/Kg - dry	151	264	10	02/08/25 23:27	MMK	L798798
Surrogate: OTP Surrogate	90.3		Limits: 50-150%		10	02/08/25 23:27		8015C DRO

Analytical Method: 8015C GRO

Prep Batch(es): **V56079** 02/06/25 13:59

Prep Method: 5035 MED

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Gasoline Range Organics (C6-C10)	191	mg/Kg - dry	2.79	6.73	50	02/07/25 01:03	BLJ	V56086
Surrogate: a,a,a-Trifluorotoluene	80.5		Limits: 50-137%		50	02/07/25 01:03	BLJ	8015C GRO

Analytical Method: 8260D

Prep Batch(es): **V56274** 02/13/25 16:30

Prep Method: 5035

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acetone	<0.003	mg/Kg - dry	0.003	0.026	1	02/13/25 20:01	VBW	V56279
Acrolein	<0.001	mg/Kg - dry	0.001	0.026	1	02/13/25 20:01	VBW	V56279
Acrylonitrile	<0.001	mg/Kg - dry	0.001	0.026	1	02/13/25 20:01	VBW	V56279
Benzene	<0.0008	mg/Kg - dry	0.0008	0.006	1	02/13/25 20:01	VBW	V56279
Bromobenzene	<0.0007	mg/Kg - dry	0.0007	0.006	1	02/13/25 20:01	VBW	V56279
Bromochloromethane	<0.001	mg/Kg - dry	0.001	0.006	1	02/13/25 20:01	VBW	V56279
Bromodichloromethane	<0.001	mg/Kg - dry	0.001	0.006	1	02/13/25 20:01	VBW	V56279
Bromoform	<0.001	mg/Kg - dry	0.001	0.006	1	02/13/25 20:01	VBW	V56279
Bromomethane	<0.002	mg/Kg - dry	0.002	0.013	1	02/13/25 20:01	VBW	V56279

**Qualifiers/
Definitions**

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
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Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91624**

Matrix: **Solids**

Sample ID : **SW-1**

Sampled: **1/30/2025 13:00**

Analytical Method: 8260D

Prep Batch(es): **V56274** 02/13/25 16:30

Prep Method: 5035

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
n-Butylbenzene	0.060 M	mg/Kg - dry	0.0007	0.006	1	02/13/25 20:01	VBW	V56279
sec-Butyl benzene	0.067 M	mg/Kg - dry	0.0008	0.006	1	02/13/25 20:01	VBW	V56279
tert-Butyl benzene	0.009 M	mg/Kg - dry	0.0007	0.006	1	02/13/25 20:01	VBW	V56279
Carbon Disulfide	0.001 J	mg/Kg - dry	0.0009	0.006	1	02/13/25 20:01	VBW	V56279
Carbon Tetrachloride	<0.002	mg/Kg - dry	0.002	0.006	1	02/13/25 20:01	VBW	V56279
Chlorobenzene	<0.0009	mg/Kg - dry	0.0009	0.006	1	02/13/25 20:01	VBW	V56279
Chlorodibromomethane	<0.001	mg/Kg - dry	0.001	0.006	1	02/13/25 20:01	VBW	V56279
Chloroethane	<0.001	mg/Kg - dry	0.001	0.013	1	02/13/25 20:01	VBW	V56279
Chloroform	<0.001	mg/Kg - dry	0.001	0.006	1	02/13/25 20:01	VBW	V56279
Chloromethane	<0.0008	mg/Kg - dry	0.0008	0.013	1	02/13/25 20:01	VBW	V56279
2-Chlorotoluene	<0.0007	mg/Kg - dry	0.0007	0.006	1	02/13/25 20:01	VBW	V56279
4-Chlorotoluene	<0.0005	mg/Kg - dry	0.0005	0.006	1	02/13/25 20:01	VBW	V56279
Di-Isopropyl Ether (DIPE)	<0.0010	mg/Kg - dry	0.0010	0.006	1	02/13/25 20:01	VBW	V56279
1,2-Dibromo-3-Chloropropane	<0.0006	mg/Kg - dry	0.0006	0.013	1	02/13/25 20:01	VBW	V56279
1,2-Dibromoethane	<0.0008	mg/Kg - dry	0.0008	0.006	1	02/13/25 20:01	VBW	V56279
Dibromomethane	<0.0008	mg/Kg - dry	0.0008	0.006	1	02/13/25 20:01	VBW	V56279
1,2-Dichlorobenzene	<0.0004	mg/Kg - dry	0.0004	0.006	1	02/13/25 20:01	VBW	V56279
1,3-Dichlorobenzene	<0.0005	mg/Kg - dry	0.0005	0.006	1	02/13/25 20:01	VBW	V56279
1,4-Dichlorobenzene	<0.0008	mg/Kg - dry	0.0008	0.006	1	02/13/25 20:01	VBW	V56279
Dichlorodifluoromethane	<0.001	mg/Kg - dry	0.001	0.013	1	02/13/25 20:01	VBW	V56279
1,1-Dichloroethane	<0.001	mg/Kg - dry	0.001	0.006	1	02/13/25 20:01	VBW	V56279
1,2-Dichloroethane	<0.001	mg/Kg - dry	0.001	0.006	1	02/13/25 20:01	VBW	V56279

Qualifiers/	*	Outside QC Limit	DF	Dilution Factor
Definitions	J	Estimated value	M	Minimum value
	MQL	Method Quantitation Limit		

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91624**

Matrix: **Solids**

Sample ID : **SW-1**

Sampled: **1/30/2025 13:00**

Analytical Method: 8260D

Prep Batch(es): **V56274** 02/13/25 16:30

Prep Method: 5035

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
1,1-Dichloroethene	<0.0010	mg/Kg - dry	0.0010	0.006	1	02/13/25 20:01	VBW	V56279
cis-1,2-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.006	1	02/13/25 20:01	VBW	V56279
trans-1,2-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.006	1	02/13/25 20:01	VBW	V56279
1,2-Dichloropropane	<0.0006	mg/Kg - dry	0.0006	0.006	1	02/13/25 20:01	VBW	V56279
1,3-Dichloropropane	<0.0007	mg/Kg - dry	0.0007	0.006	1	02/13/25 20:01	VBW	V56279
2,2-Dichloropropane	<0.001	mg/Kg - dry	0.001	0.006	1	02/13/25 20:01	VBW	V56279
1,1-Dichloropropene	<0.001	mg/Kg - dry	0.001	0.006	1	02/13/25 20:01	VBW	V56279
cis-1,3-Dichloropropene	<0.0007	mg/Kg - dry	0.0007	0.006	1	02/13/25 20:01	VBW	V56279
trans-1,3-Dichloropropene	<0.001	mg/Kg - dry	0.001	0.006	1	02/13/25 20:01	VBW	V56279
Ethanol	<0.018	mg/Kg - dry	0.018	0.336	1	02/13/25 20:01	VBW	V56279
Ethylbenzene	0.022 M	mg/Kg - dry	0.0008	0.006	1	02/13/25 20:01	VBW	V56279
Ethyl Tertiary Butyl Ether (ETBE)	<0.001	mg/Kg - dry	0.001	0.067	1	02/13/25 20:01	VBW	V56279
Hexachlorobutadiene	<0.001 M	mg/Kg - dry	0.001	0.013	1	02/13/25 20:01	VBW	V56279
n-Hexane	<0.0009	mg/Kg - dry	0.0009	0.013	1	02/13/25 20:01	VBW	V56279
2-Hexanone	<0.0008	mg/Kg - dry	0.0008	0.026	1	02/13/25 20:01	VBW	V56279
Isopropylbenzene	0.037	mg/Kg - dry	0.0006	0.006	1	02/13/25 20:01	VBW	V56279
4-Isopropyl toluene	<0.001 M	mg/Kg - dry	0.001	0.006	1	02/13/25 20:01	VBW	V56279
Methyl Ethyl Ketone (MEK)	<0.0009	mg/Kg - dry	0.0009	0.026	1	02/13/25 20:01	VBW	V56279
Methyl tert-butyl ether (MTBE)	<0.0008	mg/Kg - dry	0.0008	0.006	1	02/13/25 20:01	VBW	V56279
4-Methyl-2-Pentanone	<0.020	mg/Kg - dry	0.020	0.026	1	02/13/25 20:01	VBW	V56279
Methylene Chloride	<0.001	mg/Kg - dry	0.001	0.013	1	02/13/25 20:01	VBW	V56279
Naphthalene	<0.001	mg/Kg - dry	0.001	0.013	1	02/13/25 20:01	VBW	V56279

Qualifiers/	*	Outside QC Limit	DF	Dilution Factor
Definitions	J	Estimated value	M	Minimum value
	MQL	Method Quantitation Limit		

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91624**

Matrix: **Solids**

Sample ID : **SW-1**

Sampled: **1/30/2025 13:00**

Analytical Method: 8260D

Prep Batch(es): **V56274** 02/13/25 16:30

Prep Method: 5035

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
n-Propylbenzene	0.092 M	mg/Kg - dry	0.0007	0.006	1	02/13/25 20:01	VBW	V56279
Styrene	<0.001	mg/Kg - dry	0.001	0.006	1	02/13/25 20:01	VBW	V56279
1,1,1,2-Tetrachloroethane	<0.001	mg/Kg - dry	0.001	0.006	1	02/13/25 20:01	VBW	V56279
1,1,2,2-Tetrachloroethane	<0.0004	mg/Kg - dry	0.0004	0.006	1	02/13/25 20:01	VBW	V56279
Tetrachloroethene	<0.001	mg/Kg - dry	0.001	0.006	1	02/13/25 20:01	VBW	V56279
Toluene	<0.0009	mg/Kg - dry	0.0009	0.006	1	02/13/25 20:01	VBW	V56279
1,2,3-Trichlorobenzene	<0.0007	mg/Kg - dry	0.0007	0.013	1	02/13/25 20:01	VBW	V56279
1,2,4-Trichlorobenzene	<0.0009	mg/Kg - dry	0.0009	0.013	1	02/13/25 20:01	VBW	V56279
1,1,1-Trichloroethane	<0.001	mg/Kg - dry	0.001	0.006	1	02/13/25 20:01	VBW	V56279
1,1,2-Trichloroethane	<0.0006	mg/Kg - dry	0.0006	0.006	1	02/13/25 20:01	VBW	V56279
Trichloroethene	<0.001	mg/Kg - dry	0.001	0.006	1	02/13/25 20:01	VBW	V56279
Trichlorofluoromethane	<0.002 M	mg/Kg - dry	0.002	0.013	1	02/13/25 20:01	VBW	V56279
1,2,3-Trichloropropane	<0.0010	mg/Kg - dry	0.0010	0.006	1	02/13/25 20:01	VBW	V56279
1,2,4-Trimethylbenzene	0.001 J	mg/Kg - dry	0.0007	0.006	1	02/13/25 20:01	VBW	V56279
1,3,5-Trimethylbenzene	<0.0007 M	mg/Kg - dry	0.0007	0.006	1	02/13/25 20:01	VBW	V56279
Vinyl Acetate	<0.0006	mg/Kg - dry	0.0006	0.013	1	02/13/25 20:01	VBW	V56279
Vinyl Chloride	<0.0006	mg/Kg - dry	0.0006	0.013	1	02/13/25 20:01	VBW	V56279
o-Xylene	<0.0007	mg/Kg - dry	0.0007	0.006	1	02/13/25 20:01	VBW	V56279
m,p-Xylene	<0.001	mg/Kg - dry	0.001	0.013	1	02/13/25 20:01	VBW	V56279

**Qualifiers/
Definitions**

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

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REPORT OF ANALYSIS

Lab No : **91624**

Matrix: **Solids**

Sample ID : **SW-1**

Sampled: **1/30/2025 13:00**

Analytical Method: 8260D **Prep Batch(es):** **V56274** 02/13/25 16:30
Prep Method: 5035

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Xylene (Total)	<0.0007	mg/Kg - dry	0.0007	0.006	1	02/13/25 20:01		V56279
Surrogate: 4-Bromofluorobenzene	163 *		Limits: 70-130%		1	02/13/25 20:01	VBW	V56279
Surrogate: Dibromofluoromethane	103		Limits: 70-130%		1	02/13/25 20:01	VBW	V56279
Surrogate: Toluene-d8	102		Limits: 70-130%		1	02/13/25 20:01	VBW	V56279

Analytical Method: 8270E **Prep Batch(es):** **L799905** 02/13/25 11:38
Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acenaphthene	<0.014	mg/Kg - dry	0.014	0.089	1	02/17/25 18:12	SMB	L800697
Acenaphthylene	<0.015	mg/Kg - dry	0.015	0.089	1	02/17/25 18:12	SMB	L800697
Aniline	<0.005	mg/Kg - dry	0.005	0.228	1	02/17/25 18:12	SMB	L800697
Anthracene	<0.017	mg/Kg - dry	0.017	0.089	1	02/17/25 18:12	SMB	L800697
Benzo(a)anthracene	<0.011	mg/Kg - dry	0.011	0.089	1	02/17/25 18:12	SMB	L800697
Benzo(a)pyrene	<0.013	mg/Kg - dry	0.013	0.089	1	02/17/25 18:12	SMB	L800697
Benzo(b)fluoranthene	<0.011	mg/Kg - dry	0.011	0.089	1	02/17/25 18:12	SMB	L800697
Benzo(g,h,i)perylene	<0.018	mg/Kg - dry	0.018	0.089	1	02/17/25 18:12	SMB	L800697
Benzo(k)fluoranthene	<0.015	mg/Kg - dry	0.015	0.089	1	02/17/25 18:12	SMB	L800697
Benzoic Acid	<0.022	mg/Kg - dry	0.022	0.444	1	02/17/25 18:12	SMB	L800697
Benzyl alcohol	<0.028	mg/Kg - dry	0.028	0.444	1	02/17/25 18:12	SMB	L800697
Bis(2-Chloroethoxy)methane	<0.015	mg/Kg - dry	0.015	0.228	1	02/17/25 18:12	SMB	L800697
Bis(2-Chloroethyl)ether	<0.008	mg/Kg - dry	0.008	0.228	1	02/17/25 18:12	SMB	L800697
Bis(2-Chloroisopropyl)ether	<0.029	mg/Kg - dry	0.029	0.228	1	02/17/25 18:12	SMB	L800697

Qualifiers/
Definitions

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

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REPORT OF ANALYSIS

Lab No : **91624**

Matrix: **Solids**

Sample ID : **SW-1**

Sampled: **1/30/2025 13:00**

Analytical Method: 8270E

Prep Batch(es): **L799905** 02/13/25 11:38

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Bis(2-ethylhexyl)phthalate	<0.020	mg/Kg - dry	0.020	0.444	1	02/17/25 18:12	SMB	L800697
4-Bromophenyl phenyl ether	<0.020	mg/Kg - dry	0.020	0.228	1	02/17/25 18:12	SMB	L800697
Butyl benzyl phthalate	<0.023	mg/Kg - dry	0.023	0.228	1	02/17/25 18:12	SMB	L800697
4-Chloro-3-methylphenol	<0.021	mg/Kg - dry	0.021	0.228	1	02/17/25 18:12	SMB	L800697
4-Chloroaniline	<0.017	mg/Kg - dry	0.017	0.228	1	02/17/25 18:12	SMB	L800697
2-Chloronaphthalene	<0.012	mg/Kg - dry	0.012	0.228	1	02/17/25 18:12	SMB	L800697
2-Chlorophenol	<0.018	mg/Kg - dry	0.018	0.228	1	02/17/25 18:12	SMB	L800697
4-Chlorophenyl phenyl ether	<0.015	mg/Kg - dry	0.015	0.228	1	02/17/25 18:12	SMB	L800697
Chrysene	<0.014	mg/Kg - dry	0.014	0.089	1	02/17/25 18:12	SMB	L800697
Dibenz(a,h)anthracene	<0.015	mg/Kg - dry	0.015	0.089	1	02/17/25 18:12	SMB	L800697
Dibenzofuran	<0.019	mg/Kg - dry	0.019	0.228	1	02/17/25 18:12	SMB	L800697
1,2-Dichlorobenzene	<0.011	mg/Kg - dry	0.011	0.228	1	02/17/25 18:12	SMB	L800697
1,3-Dichlorobenzene	<0.012	mg/Kg - dry	0.012	0.228	1	02/17/25 18:12	SMB	L800697
1,4-Dichlorobenzene	<0.012	mg/Kg - dry	0.012	0.228	1	02/17/25 18:12	SMB	L800697
3,3'-Dichlorobenzidine	<0.148	mg/Kg - dry	0.148	0.444	1	02/17/25 18:12	SMB	L800697
2,4-Dichlorophenol	<0.020	mg/Kg - dry	0.020	0.228	1	02/17/25 18:12	SMB	L800697
Diethyl phthalate	<0.014	mg/Kg - dry	0.014	0.228	1	02/17/25 18:12	SMB	L800697
Dimethyl phthalate	<0.018	mg/Kg - dry	0.018	0.228	1	02/17/25 18:12	SMB	L800697
2,4-Dimethylphenol	<0.029	mg/Kg - dry	0.029	0.228	1	02/17/25 18:12	SMB	L800697
Di-n-butyl phthalate	<0.019	mg/Kg - dry	0.019	0.228	1	02/17/25 18:12	SMB	L800697
4,6-Dinitro-2-methylphenol	<0.011	mg/Kg - dry	0.011	0.444	1	02/17/25 18:12	SMB	L800697
2,4-Dinitrophenol	<0.012	mg/Kg - dry	0.012	0.444	1	02/17/25 18:12	SMB	L800697

Qualifiers/	*	Outside QC Limit	DF	Dilution Factor
Definitions	J	Estimated value	M	Minimum value
	MQL	Method Quantitation Limit		

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91624**

Matrix: **Solids**

Sample ID : **SW-1**

Sampled: **1/30/2025 13:00**

Analytical Method: 8270E

Prep Batch(es): **L799905** 02/13/25 11:38

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
2,4-Dinitrotoluene	<0.014	mg/Kg - dry	0.014	0.228	1	02/17/25 18:12	SMB	L800697
2,6-Dinitrotoluene	<0.015	mg/Kg - dry	0.015	0.228	1	02/17/25 18:12	SMB	L800697
Di-n-Octyl Phthalate	<0.029	mg/Kg - dry	0.029	0.228	1	02/17/25 18:12	SMB	L800697
Fluoranthene	<0.013	mg/Kg - dry	0.013	0.089	1	02/17/25 18:12	SMB	L800697
Fluorene	<0.021	mg/Kg - dry	0.021	0.089	1	02/17/25 18:12	SMB	L800697
Hexachlorobenzene	<0.014	mg/Kg - dry	0.014	0.228	1	02/17/25 18:12	SMB	L800697
Hexachlorobutadiene	<0.013	mg/Kg - dry	0.013	0.228	1	02/17/25 18:12	SMB	L800697
Hexachloroethane	<0.014	mg/Kg - dry	0.014	0.228	1	02/17/25 18:12	SMB	L800697
Indeno(1,2,3-cd)pyrene	<0.023	mg/Kg - dry	0.023	0.089	1	02/17/25 18:12	SMB	L800697
Isophorone	<0.015	mg/Kg - dry	0.015	0.228	1	02/17/25 18:12	SMB	L800697
1-Methylnaphthalene	0.581	mg/Kg - dry	0.022	0.089	1	02/17/25 18:12	SMB	L800697
2-Methylnaphthalene	<0.013	mg/Kg - dry	0.013	0.089	1	02/17/25 18:12	SMB	L800697
2-Methylphenol	<0.020	mg/Kg - dry	0.020	0.228	1	02/17/25 18:12	SMB	L800697
3&4 Methylphenol	<0.019	mg/Kg - dry	0.019	0.228	1	02/17/25 18:12	SMB	L800697
Naphthalene	<0.014	mg/Kg - dry	0.014	0.089	1	02/17/25 18:12	SMB	L800697
2-Nitroaniline	<0.022	mg/Kg - dry	0.022	0.228	1	02/17/25 18:12	SMB	L800697
3-Nitroaniline	<0.012	mg/Kg - dry	0.012	0.444	1	02/17/25 18:12	SMB	L800697
4-Nitroaniline	<0.016	mg/Kg - dry	0.016	0.228	1	02/17/25 18:12	SMB	L800697
Nitrobenzene	<0.008	mg/Kg - dry	0.008	0.228	1	02/17/25 18:12	SMB	L800697
2-Nitrophenol	<0.022	mg/Kg - dry	0.022	0.228	1	02/17/25 18:12	SMB	L800697
4-Nitrophenol	<0.018	mg/Kg - dry	0.018	0.228	1	02/17/25 18:12	SMB	L800697
N-Nitrosodimethylamine	<0.007	mg/Kg - dry	0.007	0.228	1	02/17/25 18:12	SMB	L800697

**Qualifiers/
Definitions**

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91624**

Matrix: **Solids**

Sample ID : **SW-1**

Sampled: **1/30/2025 13:00**

Analytical Method: 8270E

Prep Batch(es): **L799905** 02/13/25 11:38

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
N-Nitrosodiphenylamine	<0.016	mg/Kg - dry	0.016	0.444	1	02/17/25 18:12	SMB	L800697
N-Nitroso-di-n-propylamine	<0.013	mg/Kg - dry	0.013	0.228	1	02/17/25 18:12	SMB	L800697
Pentachlorophenol	<0.025	mg/Kg - dry	0.025	0.444	1	02/17/25 18:12	SMB	L800697
Phenanthrene	<0.018	mg/Kg - dry	0.018	0.089	1	02/17/25 18:12	SMB	L800697
Phenol	<0.027	mg/Kg - dry	0.027	0.228	1	02/17/25 18:12	SMB	L800697
Pyrene	<0.016	mg/Kg - dry	0.016	0.089	1	02/17/25 18:12	SMB	L800697
Pyridine	<0.020	mg/Kg - dry	0.020	0.444	1	02/17/25 18:12	SMB	L800697
1,2,4-Trichlorobenzene	<0.013	mg/Kg - dry	0.013	0.228	1	02/17/25 18:12	SMB	L800697
2,4,5-Trichlorophenol	<0.026	mg/Kg - dry	0.026	0.228	1	02/17/25 18:12	SMB	L800697
2,4,6-Trichlorophenol	<0.019	mg/Kg - dry	0.019	0.228	1	02/17/25 18:12	SMB	L800697
Surrogate: 2-Fluorobiphenyl	50.6		Limits: 20-79%		1	02/17/25 18:12	SMB	L800697
Surrogate: 2-Fluorophenol	53.6		Limits: 10-85%		1	02/17/25 18:12	SMB	L800697
Surrogate: Nitrobenzene-d5	54.5		Limits: 22-72%		1	02/17/25 18:12	SMB	L800697
Surrogate: Phenol-d6	53.3		Limits: 10-96%		1	02/17/25 18:12	SMB	L800697
Surrogate: 4-Terphenyl-d14	51.8		Limits: 22-104%		1	02/17/25 18:12	SMB	L800697
Surrogate: 2,4,6-Tribromophenol	57.5		Limits: 10-112%		1	02/17/25 18:12	SMB	L800697

**Qualifiers/
Definitions**

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91624**

Matrix: **Solids**

Sample ID : **SW-1**

Sampled: **1/30/2025 13:00**

Analytical Method: MADEP-EPH **Prep Batch(es):** **L799927** 02/13/25 13:00

Prep Method: MAEPH (Prep)

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Aliphatic C9-C18	197	mg/Kg - dry	15.9	40.4	10	02/24/25 12:04	MMK	L800398
Aliphatic C19-C36	3.01 J	mg/Kg - dry	1.28	5.38	1	02/21/25 22:01	MMK	L800398
Aromatic C11-C22	2920	mg/Kg - dry	532	1140	100	02/24/25 11:21	MMK	L800398
Surrogate: 2-Fluorobiphenyl	91.5		Limits: 40-140%		10	02/24/25 11:00		MADEP-EPH
Surrogate: Chlorooctadecane	42.7		Limits: 40-140%		10	02/24/25 12:04		MADEP-EPH
Surrogate: OTP Surrogate	68.9		Limits: 40-140%		10	02/24/25 11:00		MADEP-EPH

Analytical Method: MADEP-VPH **Prep Batch(es):** **V56312** 02/14/25 15:06

Prep Method: MAVPH (Prep)

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Aliphatic C5-C8	63.0	mg/Kg - dry	8.18	53.8	500	02/14/25 17:05	BLJ	V56313
Aliphatic C9-C12	602	mg/Kg - dry	30.7	53.8	500	02/14/25 17:05	BLJ	V56313
Aromatic C9-C10	188	mg/Kg - dry	4.20	53.8	500	02/14/25 17:05	BLJ	V56313
Surrogate: 2,5-Dibromotoluene (FID)	76.8		Limits: 70-130%		500	02/14/25 17:05	BLJ	MADEP-VPH
Surrogate: 2,5-Dibromotoluene (PID)	75.5		Limits: 70-130%		500	02/14/25 17:05	BLJ	MADEP-VPH

**Qualifiers/
Definitions**

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91625**

Matrix: **Solids**

Sample ID : **SW-2**

Sampled: **1/30/2025 13:05**

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Method
Moisture	28.7	%			1	02/04/25 14:22	CJR	SW-DRYWT

**Qualifiers/
Definitions**

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91625**

Matrix: **Solids**

Sample ID : **SW-2**

Sampled: **1/30/2025 13:05**

Analytical Method: 8015C DRO

Prep Batch(es): **L798453** 02/06/25 08:00

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Diesel Range Organics (C10-C28)	349	mg/Kg - dry	26.6	46.7	10	02/08/25 23:51	MMK	L798798
Surrogate: OTP Surrogate	78.0		Limits: 50-150%		10	02/08/25 23:51		8015C DRO

Analytical Method: 8015C GRO

Prep Batch(es): **V56079** 02/06/25 13:59

Prep Method: 5035 MED

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Gasoline Range Organics (C6-C10)	237	mg/Kg - dry	2.90	7.01	50	02/07/25 01:31	BLJ	V56086
Surrogate: a,a,a-Trifluorotoluene	74.0		Limits: 50-137%		50	02/07/25 01:31	BLJ	8015C GRO

Analytical Method: 8260D

Prep Batch(es): **V56274** 02/13/25 16:30

Prep Method: 5035

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acetone	0.087	mg/Kg - dry	0.003	0.028	1	02/13/25 20:29	VBW	V56279
Acrolein	<0.001	mg/Kg - dry	0.001	0.028	1	02/13/25 20:29	VBW	V56279
Acrylonitrile	<0.001	mg/Kg - dry	0.001	0.028	1	02/13/25 20:29	VBW	V56279
Benzene	<0.0008	mg/Kg - dry	0.0008	0.007	1	02/13/25 20:29	VBW	V56279
Bromobenzene	<0.0007	mg/Kg - dry	0.0007	0.007	1	02/13/25 20:29	VBW	V56279
Bromochloromethane	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:29	VBW	V56279
Bromodichloromethane	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:29	VBW	V56279
Bromoform	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:29	VBW	V56279
Bromomethane	<0.002	mg/Kg - dry	0.002	0.014	1	02/13/25 20:29	VBW	V56279

**Qualifiers/
Definitions**

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91625**

Matrix: **Solids**

Sample ID : **SW-2**

Sampled: **1/30/2025 13:05**

Analytical Method: 8260D

Prep Batch(es): **V56274** 02/13/25 16:30

Prep Method: 5035

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
n-Butylbenzene	0.025 M	mg/Kg - dry	0.0007	0.007	1	02/13/25 20:29	VBW	V56279
sec-Butyl benzene	0.024 M	mg/Kg - dry	0.0008	0.007	1	02/13/25 20:29	VBW	V56279
tert-Butyl benzene	0.003 JM	mg/Kg - dry	0.0007	0.007	1	02/13/25 20:29	VBW	V56279
Carbon Disulfide	<0.0009	mg/Kg - dry	0.0009	0.007	1	02/13/25 20:29	VBW	V56279
Carbon Tetrachloride	<0.002	mg/Kg - dry	0.002	0.007	1	02/13/25 20:29	VBW	V56279
Chlorobenzene	<0.0009	mg/Kg - dry	0.0009	0.007	1	02/13/25 20:29	VBW	V56279
Chlorodibromomethane	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:29	VBW	V56279
Chloroethane	<0.001	mg/Kg - dry	0.001	0.014	1	02/13/25 20:29	VBW	V56279
Chloroform	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:29	VBW	V56279
Chloromethane	<0.0009	mg/Kg - dry	0.0009	0.014	1	02/13/25 20:29	VBW	V56279
2-Chlorotoluene	<0.0007	mg/Kg - dry	0.0007	0.007	1	02/13/25 20:29	VBW	V56279
4-Chlorotoluene	<0.0005	mg/Kg - dry	0.0005	0.007	1	02/13/25 20:29	VBW	V56279
Di-Isopropyl Ether (DIPE)	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:29	VBW	V56279
1,2-Dibromo-3-Chloropropane	<0.0006	mg/Kg - dry	0.0006	0.014	1	02/13/25 20:29	VBW	V56279
1,2-Dibromoethane	<0.0008	mg/Kg - dry	0.0008	0.007	1	02/13/25 20:29	VBW	V56279
Dibromomethane	<0.0008	mg/Kg - dry	0.0008	0.007	1	02/13/25 20:29	VBW	V56279
1,2-Dichlorobenzene	<0.0004	mg/Kg - dry	0.0004	0.007	1	02/13/25 20:29	VBW	V56279
1,3-Dichlorobenzene	<0.0005	mg/Kg - dry	0.0005	0.007	1	02/13/25 20:29	VBW	V56279
1,4-Dichlorobenzene	<0.0008	mg/Kg - dry	0.0008	0.007	1	02/13/25 20:29	VBW	V56279
Dichlorodifluoromethane	<0.001	mg/Kg - dry	0.001	0.014	1	02/13/25 20:29	VBW	V56279
1,1-Dichloroethane	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:29	VBW	V56279
1,2-Dichloroethane	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:29	VBW	V56279

**Qualifiers/
Definitions**

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91625**

Matrix: **Solids**

Sample ID : **SW-2**

Sampled: **1/30/2025 13:05**

Analytical Method: 8260D

Prep Batch(es): **V56274** 02/13/25 16:30

Prep Method: 5035

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
1,1-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:29	VBW	V56279
cis-1,2-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:29	VBW	V56279
trans-1,2-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:29	VBW	V56279
1,2-Dichloropropane	<0.0006	mg/Kg - dry	0.0006	0.007	1	02/13/25 20:29	VBW	V56279
1,3-Dichloropropane	<0.0008	mg/Kg - dry	0.0008	0.007	1	02/13/25 20:29	VBW	V56279
2,2-Dichloropropane	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:29	VBW	V56279
1,1-Dichloropropene	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:29	VBW	V56279
cis-1,3-Dichloropropene	<0.0008	mg/Kg - dry	0.0008	0.007	1	02/13/25 20:29	VBW	V56279
trans-1,3-Dichloropropene	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:29	VBW	V56279
Ethanol	<0.019	mg/Kg - dry	0.019	0.350	1	02/13/25 20:29	VBW	V56279
Ethylbenzene	0.005 JM	mg/Kg - dry	0.0008	0.007	1	02/13/25 20:29	VBW	V56279
Ethyl Tertiary Butyl Ether (ETBE)	<0.001	mg/Kg - dry	0.001	0.070	1	02/13/25 20:29	VBW	V56279
Hexachlorobutadiene	<0.001 M	mg/Kg - dry	0.001	0.014	1	02/13/25 20:29	VBW	V56279
n-Hexane	<0.0009	mg/Kg - dry	0.0009	0.014	1	02/13/25 20:29	VBW	V56279
2-Hexanone	<0.0009	mg/Kg - dry	0.0009	0.028	1	02/13/25 20:29	VBW	V56279
Isopropylbenzene	0.010	mg/Kg - dry	0.0006	0.007	1	02/13/25 20:29	VBW	V56279
4-Isopropyl toluene	<0.001 M	mg/Kg - dry	0.001	0.007	1	02/13/25 20:29	VBW	V56279
Methyl Ethyl Ketone (MEK)	<0.0009	mg/Kg - dry	0.0009	0.028	1	02/13/25 20:29	VBW	V56279
Methyl tert-butyl ether (MTBE)	<0.0009	mg/Kg - dry	0.0009	0.007	1	02/13/25 20:29	VBW	V56279
4-Methyl-2-Pentanone	<0.021	mg/Kg - dry	0.021	0.028	1	02/13/25 20:29	VBW	V56279
Methylene Chloride	<0.002	mg/Kg - dry	0.002	0.014	1	02/13/25 20:29	VBW	V56279
Naphthalene	<0.001	mg/Kg - dry	0.001	0.014	1	02/13/25 20:29	VBW	V56279

Qualifiers/ Definitions

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91625**

Matrix: **Solids**

Sample ID : **SW-2**

Sampled: **1/30/2025 13:05**

Analytical Method: 8260D

Prep Batch(es): **V56274** 02/13/25 16:30

Prep Method: 5035

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
n-Propylbenzene	0.033 M	mg/Kg - dry	0.0008	0.007	1	02/13/25 20:29	VBW	V56279
Styrene	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:29	VBW	V56279
1,1,1,2-Tetrachloroethane	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:29	VBW	V56279
1,1,2,2-Tetrachloroethane	<0.0004	mg/Kg - dry	0.0004	0.007	1	02/13/25 20:29	VBW	V56279
Tetrachloroethene	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:29	VBW	V56279
Toluene	<0.0009	mg/Kg - dry	0.0009	0.007	1	02/13/25 20:29	VBW	V56279
1,2,3-Trichlorobenzene	<0.0008	mg/Kg - dry	0.0008	0.014	1	02/13/25 20:29	VBW	V56279
1,2,4-Trichlorobenzene	<0.0009	mg/Kg - dry	0.0009	0.014	1	02/13/25 20:29	VBW	V56279
1,1,1-Trichloroethane	<0.002	mg/Kg - dry	0.002	0.007	1	02/13/25 20:29	VBW	V56279
1,1,2-Trichloroethane	<0.0007	mg/Kg - dry	0.0007	0.007	1	02/13/25 20:29	VBW	V56279
Trichloroethene	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:29	VBW	V56279
Trichlorofluoromethane	<0.002 M	mg/Kg - dry	0.002	0.014	1	02/13/25 20:29	VBW	V56279
1,2,3-Trichloropropane	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:29	VBW	V56279
1,2,4-Trimethylbenzene	0.001 J	mg/Kg - dry	0.0007	0.007	1	02/13/25 20:29	VBW	V56279
1,3,5-Trimethylbenzene	<0.0008 M	mg/Kg - dry	0.0008	0.007	1	02/13/25 20:29	VBW	V56279
Vinyl Acetate	<0.0006	mg/Kg - dry	0.0006	0.014	1	02/13/25 20:29	VBW	V56279
Vinyl Chloride	<0.0007	mg/Kg - dry	0.0007	0.014	1	02/13/25 20:29	VBW	V56279
o-Xylene	<0.0007	mg/Kg - dry	0.0007	0.007	1	02/13/25 20:29	VBW	V56279
m,p-Xylene	<0.001	mg/Kg - dry	0.001	0.014	1	02/13/25 20:29	VBW	V56279

**Qualifiers/
Definitions**

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91625**

Matrix: **Solids**

Sample ID : **SW-2**

Sampled: **1/30/2025 13:05**

Analytical Method: 8260D

Prep Batch(es): **V56274** 02/13/25 16:30

Prep Method: 5035

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Xylene (Total)	<0.0007	mg/Kg - dry	0.0007	0.007	1	02/13/25 20:29		V56279
Surrogate: 4-Bromofluorobenzene	159 *		Limits: 70-130%		1	02/13/25 20:29	VBW	V56279
Surrogate: Dibromofluoromethane	122		Limits: 70-130%		1	02/13/25 20:29	VBW	V56279
Surrogate: Toluene-d8	98.8		Limits: 70-130%		1	02/13/25 20:29	VBW	V56279

Analytical Method: 8270E

Prep Batch(es): **L799905** 02/13/25 11:38

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acenaphthene	<0.015	mg/Kg - dry	0.015	0.093	1	02/17/25 19:45	SMB	L800697
Acenaphthylene	<0.016	mg/Kg - dry	0.016	0.093	1	02/17/25 19:45	SMB	L800697
Aniline	<0.006	mg/Kg - dry	0.006	0.238	1	02/17/25 19:45	SMB	L800697
Anthracene	<0.018	mg/Kg - dry	0.018	0.093	1	02/17/25 19:45	SMB	L800697
Benzo(a)anthracene	<0.012	mg/Kg - dry	0.012	0.093	1	02/17/25 19:45	SMB	L800697
Benzo(a)pyrene	<0.014	mg/Kg - dry	0.014	0.093	1	02/17/25 19:45	SMB	L800697
Benzo(b)fluoranthene	<0.011	mg/Kg - dry	0.011	0.093	1	02/17/25 19:45	SMB	L800697
Benzo(g,h,i)perylene	<0.019	mg/Kg - dry	0.019	0.093	1	02/17/25 19:45	SMB	L800697
Benzo(k)fluoranthene	<0.015	mg/Kg - dry	0.015	0.093	1	02/17/25 19:45	SMB	L800697
Benzoic Acid	<0.023	mg/Kg - dry	0.023	0.462	1	02/17/25 19:45	SMB	L800697
Benzyl alcohol	<0.030	mg/Kg - dry	0.030	0.462	1	02/17/25 19:45	SMB	L800697
Bis(2-Chloroethoxy)methane	<0.015	mg/Kg - dry	0.015	0.238	1	02/17/25 19:45	SMB	L800697
Bis(2-Chloroethyl)ether	<0.008	mg/Kg - dry	0.008	0.238	1	02/17/25 19:45	SMB	L800697
Bis(2-Chloroisopropyl)ether	<0.030	mg/Kg - dry	0.030	0.238	1	02/17/25 19:45	SMB	L800697

Qualifiers/
Definitions

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91625**

Matrix: **Solids**

Sample ID : **SW-2**

Sampled: **1/30/2025 13:05**

Analytical Method: 8270E

Prep Batch(es): **L799905** 02/13/25 11:38

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Bis(2-ethylhexyl)phthalate	<0.021	mg/Kg - dry	0.021	0.462	1	02/17/25 19:45	SMB	L800697
4-Bromophenyl phenyl ether	<0.021	mg/Kg - dry	0.021	0.238	1	02/17/25 19:45	SMB	L800697
Butyl benzyl phthalate	<0.024	mg/Kg - dry	0.024	0.238	1	02/17/25 19:45	SMB	L800697
4-Chloro-3-methylphenol	<0.022	mg/Kg - dry	0.022	0.238	1	02/17/25 19:45	SMB	L800697
4-Chloroaniline	<0.017	mg/Kg - dry	0.017	0.238	1	02/17/25 19:45	SMB	L800697
2-Chloronaphthalene	<0.013	mg/Kg - dry	0.013	0.238	1	02/17/25 19:45	SMB	L800697
2-Chlorophenol	<0.019	mg/Kg - dry	0.019	0.238	1	02/17/25 19:45	SMB	L800697
4-Chlorophenyl phenyl ether	<0.016	mg/Kg - dry	0.016	0.238	1	02/17/25 19:45	SMB	L800697
Chrysene	<0.015	mg/Kg - dry	0.015	0.093	1	02/17/25 19:45	SMB	L800697
Dibenz(a,h)anthracene	<0.015	mg/Kg - dry	0.015	0.093	1	02/17/25 19:45	SMB	L800697
Dibenzofuran	<0.020	mg/Kg - dry	0.020	0.238	1	02/17/25 19:45	SMB	L800697
1,2-Dichlorobenzene	<0.012	mg/Kg - dry	0.012	0.238	1	02/17/25 19:45	SMB	L800697
1,3-Dichlorobenzene	<0.012	mg/Kg - dry	0.012	0.238	1	02/17/25 19:45	SMB	L800697
1,4-Dichlorobenzene	<0.013	mg/Kg - dry	0.013	0.238	1	02/17/25 19:45	SMB	L800697
3,3'-Dichlorobenzidine	<0.154	mg/Kg - dry	0.154	0.462	1	02/17/25 19:45	SMB	L800697
2,4-Dichlorophenol	<0.021	mg/Kg - dry	0.021	0.238	1	02/17/25 19:45	SMB	L800697
Diethyl phthalate	<0.015	mg/Kg - dry	0.015	0.238	1	02/17/25 19:45	SMB	L800697
Dimethyl phthalate	<0.019	mg/Kg - dry	0.019	0.238	1	02/17/25 19:45	SMB	L800697
2,4-Dimethylphenol	<0.030	mg/Kg - dry	0.030	0.238	1	02/17/25 19:45	SMB	L800697
Di-n-butyl phthalate	<0.020	mg/Kg - dry	0.020	0.238	1	02/17/25 19:45	SMB	L800697
4,6-Dinitro-2-methylphenol	<0.012	mg/Kg - dry	0.012	0.462	1	02/17/25 19:45	SMB	L800697
2,4-Dinitrophenol	<0.013	mg/Kg - dry	0.013	0.462	1	02/17/25 19:45	SMB	L800697

Qualifiers/	*	Outside QC Limit	DF	Dilution Factor
Definitions	J	Estimated value	M	Minimum value
	MQL	Method Quantitation Limit		

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91625**

Matrix: **Solids**

Sample ID : **SW-2**

Sampled: **1/30/2025 13:05**

Analytical Method: 8270E

Prep Batch(es): **L799905** 02/13/25 11:38

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
2,4-Dinitrotoluene	<0.015	mg/Kg - dry	0.015	0.238	1	02/17/25 19:45	SMB	L800697
2,6-Dinitrotoluene	<0.016	mg/Kg - dry	0.016	0.238	1	02/17/25 19:45	SMB	L800697
Di-n-Octyl Phthalate	<0.030	mg/Kg - dry	0.030	0.238	1	02/17/25 19:45	SMB	L800697
Fluoranthene	<0.014	mg/Kg - dry	0.014	0.093	1	02/17/25 19:45	SMB	L800697
Fluorene	<0.022	mg/Kg - dry	0.022	0.093	1	02/17/25 19:45	SMB	L800697
Hexachlorobenzene	<0.015	mg/Kg - dry	0.015	0.238	1	02/17/25 19:45	SMB	L800697
Hexachlorobutadiene	<0.013	mg/Kg - dry	0.013	0.238	1	02/17/25 19:45	SMB	L800697
Hexachloroethane	<0.014	mg/Kg - dry	0.014	0.238	1	02/17/25 19:45	SMB	L800697
Indeno(1,2,3-cd)pyrene	<0.024	mg/Kg - dry	0.024	0.093	1	02/17/25 19:45	SMB	L800697
Isophorone	<0.015	mg/Kg - dry	0.015	0.238	1	02/17/25 19:45	SMB	L800697
1-Methylnaphthalene	0.204	mg/Kg - dry	0.023	0.093	1	02/17/25 19:45	SMB	L800697
2-Methylnaphthalene	0.208	mg/Kg - dry	0.013	0.093	1	02/17/25 19:45	SMB	L800697
2-Methylphenol	<0.021	mg/Kg - dry	0.021	0.238	1	02/17/25 19:45	SMB	L800697
3&4 Methylphenol	<0.020	mg/Kg - dry	0.020	0.238	1	02/17/25 19:45	SMB	L800697
Naphthalene	<0.015	mg/Kg - dry	0.015	0.093	1	02/17/25 19:45	SMB	L800697
2-Nitroaniline	<0.023	mg/Kg - dry	0.023	0.238	1	02/17/25 19:45	SMB	L800697
3-Nitroaniline	<0.013	mg/Kg - dry	0.013	0.462	1	02/17/25 19:45	SMB	L800697
4-Nitroaniline	<0.016	mg/Kg - dry	0.016	0.238	1	02/17/25 19:45	SMB	L800697
Nitrobenzene	<0.009	mg/Kg - dry	0.009	0.238	1	02/17/25 19:45	SMB	L800697
2-Nitrophenol	<0.023	mg/Kg - dry	0.023	0.238	1	02/17/25 19:45	SMB	L800697
4-Nitrophenol	<0.019	mg/Kg - dry	0.019	0.238	1	02/17/25 19:45	SMB	L800697
N-Nitrosodimethylamine	<0.007	mg/Kg - dry	0.007	0.238	1	02/17/25 19:45	SMB	L800697

**Qualifiers/
Definitions**

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91625**

Matrix: **Solids**

Sample ID : **SW-2**

Sampled: **1/30/2025 13:05**

Analytical Method: 8270E

Prep Batch(es): **L799905** 02/13/25 11:38

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
N-Nitrosodiphenylamine	<0.017	mg/Kg - dry	0.017	0.462	1	02/17/25 19:45	SMB	L800697
N-Nitroso-di-n-propylamine	<0.014	mg/Kg - dry	0.014	0.238	1	02/17/25 19:45	SMB	L800697
Pentachlorophenol	<0.026	mg/Kg - dry	0.026	0.462	1	02/17/25 19:45	SMB	L800697
Phenanthrene	<0.019	mg/Kg - dry	0.019	0.093	1	02/17/25 19:45	SMB	L800697
Phenol	<0.028	mg/Kg - dry	0.028	0.238	1	02/17/25 19:45	SMB	L800697
Pyrene	<0.017	mg/Kg - dry	0.017	0.093	1	02/17/25 19:45	SMB	L800697
Pyridine	<0.021	mg/Kg - dry	0.021	0.462	1	02/17/25 19:45	SMB	L800697
1,2,4-Trichlorobenzene	<0.014	mg/Kg - dry	0.014	0.238	1	02/17/25 19:45	SMB	L800697
2,4,5-Trichlorophenol	<0.028	mg/Kg - dry	0.028	0.238	1	02/17/25 19:45	SMB	L800697
2,4,6-Trichlorophenol	<0.020	mg/Kg - dry	0.020	0.238	1	02/17/25 19:45	SMB	L800697
Surrogate: 2-Fluorobiphenyl	54.1		Limits: 20-79%		1	02/17/25 19:45	SMB	L800697
Surrogate: 2-Fluorophenol	54.7		Limits: 10-85%		1	02/17/25 19:45	SMB	L800697
Surrogate: Nitrobenzene-d5	55.0		Limits: 22-72%		1	02/17/25 19:45	SMB	L800697
Surrogate: Phenol-d6	53.8		Limits: 10-96%		1	02/17/25 19:45	SMB	L800697
Surrogate: 4-Terphenyl-d14	50.2		Limits: 22-104%		1	02/17/25 19:45	SMB	L800697
Surrogate: 2,4,6-Tribromophenol	61.3		Limits: 10-112%		1	02/17/25 19:45	SMB	L800697

**Qualifiers/
Definitions**

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91625**

Matrix: **Solids**

Sample ID : **SW-2**

Sampled: **1/30/2025 13:05**

Analytical Method: MADEP-EPH **Prep Batch(es):** **L799927** 02/13/25 13:00

Prep Method: MAEPH (Prep)

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Aliphatic C9-C18	209	mg/Kg - dry	16.5	42.1	10	02/24/25 13:31	MMK	L800398
Aliphatic C19-C36	2.83 J	mg/Kg - dry	1.33	5.61	1	02/21/25 22:22	MMK	L800398
Aromatic C11-C22	6.47 J	mg/Kg - dry	5.54	11.9	1	02/21/25 22:22	MMK	L800398
Surrogate: 2-Fluorobiphenyl	107		Limits: 40-140%		1	02/21/25 22:22		MADEP-EPH
Surrogate: OTP Surrogate	63.0		Limits: 40-140%		1	02/21/25 22:22		MADEP-EPH
Surrogate: Chlorooctadecane	60.1		Limits: 40-140%		10	02/24/25 13:31		MADEP-EPH

Analytical Method: MADEP-VPH **Prep Batch(es):** **V56312** 02/14/25 15:06

Prep Method: MAVPH (Prep)

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Aliphatic C5-C8	84.3 J	mg/Kg - dry	17.1	112	1000	02/14/25 17:29	BLJ	V56313
Aliphatic C9-C12	1170	mg/Kg - dry	64.0	112	1000	02/14/25 17:29	BLJ	V56313
Aromatic C9-C10	150	mg/Kg - dry	8.75	112	1000	02/14/25 17:29	BLJ	V56313
Surrogate: 2,5-Dibromotoluene (FID)	86.4		Limits: 70-130%		1000	02/14/25 17:29	BLJ	MADEP-VPH
Surrogate: 2,5-Dibromotoluene (PID)	80.7		Limits: 70-130%		1000	02/14/25 17:29	BLJ	MADEP-VPH

**Qualifiers/
Definitions**

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte , NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91626**

Matrix: **Solids**

Sample ID : **SW-3**

Sampled: **1/30/2025 13:10**

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Method
Moisture	25.3	%			1	02/04/25 14:22	CJR	SW-DRYWT

**Qualifiers/
Definitions**

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91626**

Matrix: **Solids**

Sample ID : **SW-3**

Sampled: **1/30/2025 13:10**

Analytical Method: 8015C DRO

Prep Batch(es): **L798453** 02/06/25 08:00

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Diesel Range Organics (C10-C28)	10.1	mg/Kg - dry	2.54	4.46	1	02/09/25 00:14	MMK	L798798
Surrogate: OTP Surrogate	94.1		Limits: 50-150%		1	02/09/25 00:14		8015C DRO

Analytical Method: 8015C GRO

Prep Batch(es): **V56079** 02/06/25 13:59

Prep Method: 5035 MED

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Gasoline Range Organics (C6-C10)	<2.77	mg/Kg - dry	2.77	6.69	50	02/07/25 02:00	BLJ	V56086
Surrogate: a,a,a-Trifluorotoluene	79.8		Limits: 50-137%		50	02/07/25 02:00	BLJ	8015C GRO

**Qualifiers/
Definitions**

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91627**

Matrix: **Solids**

Sample ID : **SW-4**

Sampled: **1/30/2025 13:15**

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Method
Moisture	28.8	%			1	02/04/25 14:22	CJR	SW-DRYWT

**Qualifiers/
Definitions**

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91627**

Matrix: **Solids**

Sample ID : **SW-4**

Sampled: **1/30/2025 13:15**

Analytical Method: 8015C DRO

Prep Batch(es): **L798453** 02/06/25 08:00

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Diesel Range Organics (C10-C28)	6.66	mg/Kg - dry	2.67	4.68	1	02/09/25 00:37	MMK	L798798
Surrogate: OTP Surrogate	98.8		Limits: 50-150%		1	02/09/25 00:37		8015C DRO

Analytical Method: 8015C GRO

Prep Batch(es): **V56079** 02/06/25 13:59

Prep Method: 5035 MED

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Gasoline Range Organics (C6-C10)	11.5	mg/Kg - dry	2.91	7.02	50	02/07/25 02:28	BLJ	V56086
Surrogate: a,a,a-Trifluorotoluene	76.8		Limits: 50-137%		50	02/07/25 02:28	BLJ	8015C GRO

**Qualifiers/
Definitions**

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91628**

Matrix: **Solids**

Sample ID : **SW-5**

Sampled: **1/30/2025 13:20**

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Method
Moisture	28.6	%			1	02/04/25 14:22	CJR	SW-DRYWT

**Qualifiers/
Definitions**

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
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Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91628**

Matrix: **Solids**

Sample ID : **SW-5**

Sampled: **1/30/2025 13:20**

Analytical Method: 8015C DRO

Prep Batch(es): **L798453** 02/06/25 08:00

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Diesel Range Organics (C10-C28)	608	mg/Kg - dry	26.6	46.6	10	02/09/25 01:01	MMK	L798798
Surrogate: OTP Surrogate	95.6		Limits: 50-150%		10	02/09/25 01:01		8015C DRO

Analytical Method: 8015C GRO

Prep Batch(es): **V56079** 02/06/25 13:59

Prep Method: 5035 MED

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Gasoline Range Organics (C6-C10)	104	mg/Kg - dry	2.90	7.00	50	02/07/25 02:57	BLJ	V56086
Surrogate: a,a,a-Trifluorotoluene	78.2		Limits: 50-137%		50	02/07/25 02:57	BLJ	8015C GRO

Analytical Method: 8260D

Prep Batch(es): **V56274** 02/13/25 16:30

Prep Method: 5035

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acetone	0.058	mg/Kg - dry	0.003	0.028	1	02/13/25 20:55	VBW	V56279
Acrolein	<0.001	mg/Kg - dry	0.001	0.028	1	02/13/25 20:55	VBW	V56279
Acrylonitrile	<0.001	mg/Kg - dry	0.001	0.028	1	02/13/25 20:55	VBW	V56279
Benzene	<0.0008	mg/Kg - dry	0.0008	0.007	1	02/13/25 20:55	VBW	V56279
Bromobenzene	<0.0007	mg/Kg - dry	0.0007	0.007	1	02/13/25 20:55	VBW	V56279
Bromochloromethane	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:55	VBW	V56279
Bromodichloromethane	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:55	VBW	V56279
Bromoform	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:55	VBW	V56279
Bromomethane	<0.002	mg/Kg - dry	0.002	0.014	1	02/13/25 20:55	VBW	V56279

**Qualifiers/
Definitions**

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

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REPORT OF ANALYSIS

Lab No : **91628**

Matrix: **Solids**

Sample ID : **SW-5**

Sampled: **1/30/2025 13:20**

Analytical Method: 8260D

Prep Batch(es): **V56274** 02/13/25 16:30

Prep Method: 5035

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
n-Butylbenzene	0.001 JM	mg/Kg - dry	0.0007	0.007	1	02/13/25 20:55	VBW	V56279
sec-Butyl benzene	<0.0008 M	mg/Kg - dry	0.0008	0.007	1	02/13/25 20:55	VBW	V56279
tert-Butyl benzene	<0.0007 M	mg/Kg - dry	0.0007	0.007	1	02/13/25 20:55	VBW	V56279
Carbon Disulfide	<0.0009	mg/Kg - dry	0.0009	0.007	1	02/13/25 20:55	VBW	V56279
Carbon Tetrachloride	<0.002	mg/Kg - dry	0.002	0.007	1	02/13/25 20:55	VBW	V56279
Chlorobenzene	<0.0009	mg/Kg - dry	0.0009	0.007	1	02/13/25 20:55	VBW	V56279
Chlorodibromomethane	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:55	VBW	V56279
Chloroethane	<0.001	mg/Kg - dry	0.001	0.014	1	02/13/25 20:55	VBW	V56279
Chloroform	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:55	VBW	V56279
Chloromethane	<0.0009	mg/Kg - dry	0.0009	0.014	1	02/13/25 20:55	VBW	V56279
2-Chlorotoluene	<0.0007	mg/Kg - dry	0.0007	0.007	1	02/13/25 20:55	VBW	V56279
4-Chlorotoluene	<0.0005	mg/Kg - dry	0.0005	0.007	1	02/13/25 20:55	VBW	V56279
Di-Isopropyl Ether (DIPE)	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:55	VBW	V56279
1,2-Dibromo-3-Chloropropane	<0.0006	mg/Kg - dry	0.0006	0.014	1	02/13/25 20:55	VBW	V56279
1,2-Dibromoethane	<0.0008	mg/Kg - dry	0.0008	0.007	1	02/13/25 20:55	VBW	V56279
Dibromomethane	<0.0008	mg/Kg - dry	0.0008	0.007	1	02/13/25 20:55	VBW	V56279
1,2-Dichlorobenzene	<0.0004	mg/Kg - dry	0.0004	0.007	1	02/13/25 20:55	VBW	V56279
1,3-Dichlorobenzene	<0.0005	mg/Kg - dry	0.0005	0.007	1	02/13/25 20:55	VBW	V56279
1,4-Dichlorobenzene	<0.0008	mg/Kg - dry	0.0008	0.007	1	02/13/25 20:55	VBW	V56279
Dichlorodifluoromethane	<0.001	mg/Kg - dry	0.001	0.014	1	02/13/25 20:55	VBW	V56279
1,1-Dichloroethane	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:55	VBW	V56279
1,2-Dichloroethane	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:55	VBW	V56279

**Qualifiers/
Definitions**

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
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Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91628**

Matrix: **Solids**

Sample ID : **SW-5**

Sampled: **1/30/2025 13:20**

Analytical Method: 8260D

Prep Batch(es): **V56274** 02/13/25 16:30

Prep Method: 5035

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
1,1-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:55	VBW	V56279
cis-1,2-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:55	VBW	V56279
trans-1,2-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:55	VBW	V56279
1,2-Dichloropropane	<0.0006	mg/Kg - dry	0.0006	0.007	1	02/13/25 20:55	VBW	V56279
1,3-Dichloropropane	<0.0008	mg/Kg - dry	0.0008	0.007	1	02/13/25 20:55	VBW	V56279
2,2-Dichloropropane	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:55	VBW	V56279
1,1-Dichloropropene	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:55	VBW	V56279
cis-1,3-Dichloropropene	<0.0008	mg/Kg - dry	0.0008	0.007	1	02/13/25 20:55	VBW	V56279
trans-1,3-Dichloropropene	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:55	VBW	V56279
Ethanol	<0.019	mg/Kg - dry	0.019	0.350	1	02/13/25 20:55	VBW	V56279
Ethylbenzene	<0.0008 M	mg/Kg - dry	0.0008	0.007	1	02/13/25 20:55	VBW	V56279
Ethyl Tertiary Butyl Ether (ETBE)	<0.001	mg/Kg - dry	0.001	0.070	1	02/13/25 20:55	VBW	V56279
Hexachlorobutadiene	<0.001 M	mg/Kg - dry	0.001	0.014	1	02/13/25 20:55	VBW	V56279
n-Hexane	<0.0009	mg/Kg - dry	0.0009	0.014	1	02/13/25 20:55	VBW	V56279
2-Hexanone	<0.0009	mg/Kg - dry	0.0009	0.028	1	02/13/25 20:55	VBW	V56279
Isopropylbenzene	<0.0006	mg/Kg - dry	0.0006	0.007	1	02/13/25 20:55	VBW	V56279
4-Isopropyl toluene	<0.001 M	mg/Kg - dry	0.001	0.007	1	02/13/25 20:55	VBW	V56279
Methyl Ethyl Ketone (MEK)	<0.0009	mg/Kg - dry	0.0009	0.028	1	02/13/25 20:55	VBW	V56279
Methyl tert-butyl ether (MTBE)	<0.0009	mg/Kg - dry	0.0009	0.007	1	02/13/25 20:55	VBW	V56279
4-Methyl-2-Pentanone	<0.021	mg/Kg - dry	0.021	0.028	1	02/13/25 20:55	VBW	V56279
Methylene Chloride	<0.002	mg/Kg - dry	0.002	0.014	1	02/13/25 20:55	VBW	V56279
Naphthalene	<0.001	mg/Kg - dry	0.001	0.014	1	02/13/25 20:55	VBW	V56279

Qualifiers/	*	Outside QC Limit	DF	Dilution Factor
Definitions	J	Estimated value	M	Minimum value
	MQL	Method Quantitation Limit		

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91628**

Matrix: **Solids**

Sample ID : **SW-5**

Sampled: **1/30/2025 13:20**

Analytical Method: 8260D

Prep Batch(es): **V56274** 02/13/25 16:30

Prep Method: 5035

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
n-Propylbenzene	<0.0008 M	mg/Kg - dry	0.0008	0.007	1	02/13/25 20:55	VBW	V56279
Styrene	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:55	VBW	V56279
1,1,1,2-Tetrachloroethane	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:55	VBW	V56279
1,1,2,2-Tetrachloroethane	<0.0004	mg/Kg - dry	0.0004	0.007	1	02/13/25 20:55	VBW	V56279
Tetrachloroethene	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:55	VBW	V56279
Toluene	<0.0009	mg/Kg - dry	0.0009	0.007	1	02/13/25 20:55	VBW	V56279
1,2,3-Trichlorobenzene	<0.0008	mg/Kg - dry	0.0008	0.014	1	02/13/25 20:55	VBW	V56279
1,2,4-Trichlorobenzene	<0.0009	mg/Kg - dry	0.0009	0.014	1	02/13/25 20:55	VBW	V56279
1,1,1-Trichloroethane	<0.002	mg/Kg - dry	0.002	0.007	1	02/13/25 20:55	VBW	V56279
1,1,2-Trichloroethane	<0.0007	mg/Kg - dry	0.0007	0.007	1	02/13/25 20:55	VBW	V56279
Trichloroethene	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:55	VBW	V56279
Trichlorofluoromethane	<0.002 M	mg/Kg - dry	0.002	0.014	1	02/13/25 20:55	VBW	V56279
1,2,3-Trichloropropane	<0.001	mg/Kg - dry	0.001	0.007	1	02/13/25 20:55	VBW	V56279
1,2,4-Trimethylbenzene	<0.0007	mg/Kg - dry	0.0007	0.007	1	02/13/25 20:55	VBW	V56279
1,3,5-Trimethylbenzene	<0.0008 M	mg/Kg - dry	0.0008	0.007	1	02/13/25 20:55	VBW	V56279
Vinyl Acetate	<0.0006	mg/Kg - dry	0.0006	0.014	1	02/13/25 20:55	VBW	V56279
Vinyl Chloride	<0.0007	mg/Kg - dry	0.0007	0.014	1	02/13/25 20:55	VBW	V56279
o-Xylene	<0.0007	mg/Kg - dry	0.0007	0.007	1	02/13/25 20:55	VBW	V56279
m,p-Xylene	<0.001	mg/Kg - dry	0.001	0.014	1	02/13/25 20:55	VBW	V56279

**Qualifiers/
Definitions**

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
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Project ROW-809 Parcel 24
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REPORT OF ANALYSIS

Lab No : **91628**

Matrix: **Solids**

Sample ID : **SW-5**

Sampled: **1/30/2025 13:20**

Analytical Method: 8260D **Prep Batch(es):** **V56274** 02/13/25 16:30
Prep Method: 5035

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Xylene (Total)	<0.0007	mg/Kg - dry	0.0007	0.007	1	02/13/25 20:55		V56279
Surrogate: 4-Bromofluorobenzene	120		Limits: 70-130%		1	02/13/25 20:55	VBW	V56279
Surrogate: Dibromofluoromethane	120		Limits: 70-130%		1	02/13/25 20:55	VBW	V56279
Surrogate: Toluene-d8	103		Limits: 70-130%		1	02/13/25 20:55	VBW	V56279

Analytical Method: 8270E **Prep Batch(es):** **L799905** 02/13/25 11:38
Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acenaphthene	<0.015	mg/Kg - dry	0.015	0.093	1	02/17/25 20:04	SMB	L800697
Acenaphthylene	<0.016	mg/Kg - dry	0.016	0.093	1	02/17/25 20:04	SMB	L800697
Aniline	<0.006	mg/Kg - dry	0.006	0.238	1	02/17/25 20:04	SMB	L800697
Anthracene	<0.018	mg/Kg - dry	0.018	0.093	1	02/17/25 20:04	SMB	L800697
Benzo(a)anthracene	<0.012	mg/Kg - dry	0.012	0.093	1	02/17/25 20:04	SMB	L800697
Benzo(a)pyrene	<0.014	mg/Kg - dry	0.014	0.093	1	02/17/25 20:04	SMB	L800697
Benzo(b)fluoranthene	<0.011	mg/Kg - dry	0.011	0.093	1	02/17/25 20:04	SMB	L800697
Benzo(g,h,i)perylene	<0.019	mg/Kg - dry	0.019	0.093	1	02/17/25 20:04	SMB	L800697
Benzo(k)fluoranthene	<0.015	mg/Kg - dry	0.015	0.093	1	02/17/25 20:04	SMB	L800697
Benzoic Acid	<0.023	mg/Kg - dry	0.023	0.462	1	02/17/25 20:04	SMB	L800697
Benzyl alcohol	<0.029	mg/Kg - dry	0.029	0.462	1	02/17/25 20:04	SMB	L800697
Bis(2-Chloroethoxy)methane	<0.015	mg/Kg - dry	0.015	0.238	1	02/17/25 20:04	SMB	L800697
Bis(2-Chloroethyl)ether	<0.008	mg/Kg - dry	0.008	0.238	1	02/17/25 20:04	SMB	L800697
Bis(2-Chloroisopropyl)ether	<0.030	mg/Kg - dry	0.030	0.238	1	02/17/25 20:04	SMB	L800697

Qualifiers/
Definitions

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

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Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91628**

Matrix: **Solids**

Sample ID : **SW-5**

Sampled: **1/30/2025 13:20**

Analytical Method: 8270E

Prep Batch(es): **L799905** 02/13/25 11:38

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Bis(2-ethylhexyl)phthalate	<0.021	mg/Kg - dry	0.021	0.462	1	02/17/25 20:04	SMB	L800697
4-Bromophenyl phenyl ether	<0.021	mg/Kg - dry	0.021	0.238	1	02/17/25 20:04	SMB	L800697
Butyl benzyl phthalate	<0.024	mg/Kg - dry	0.024	0.238	1	02/17/25 20:04	SMB	L800697
4-Chloro-3-methylphenol	<0.022	mg/Kg - dry	0.022	0.238	1	02/17/25 20:04	SMB	L800697
4-Chloroaniline	<0.017	mg/Kg - dry	0.017	0.238	1	02/17/25 20:04	SMB	L800697
2-Chloronaphthalene	<0.013	mg/Kg - dry	0.013	0.238	1	02/17/25 20:04	SMB	L800697
2-Chlorophenol	<0.019	mg/Kg - dry	0.019	0.238	1	02/17/25 20:04	SMB	L800697
4-Chlorophenyl phenyl ether	<0.016	mg/Kg - dry	0.016	0.238	1	02/17/25 20:04	SMB	L800697
Chrysene	<0.015	mg/Kg - dry	0.015	0.093	1	02/17/25 20:04	SMB	L800697
Dibenz(a,h)anthracene	<0.015	mg/Kg - dry	0.015	0.093	1	02/17/25 20:04	SMB	L800697
Dibenzofuran	<0.020	mg/Kg - dry	0.020	0.238	1	02/17/25 20:04	SMB	L800697
1,2-Dichlorobenzene	<0.012	mg/Kg - dry	0.012	0.238	1	02/17/25 20:04	SMB	L800697
1,3-Dichlorobenzene	<0.012	mg/Kg - dry	0.012	0.238	1	02/17/25 20:04	SMB	L800697
1,4-Dichlorobenzene	<0.013	mg/Kg - dry	0.013	0.238	1	02/17/25 20:04	SMB	L800697
3,3'-Dichlorobenzidine	<0.154	mg/Kg - dry	0.154	0.462	1	02/17/25 20:04	SMB	L800697
2,4-Dichlorophenol	<0.021	mg/Kg - dry	0.021	0.238	1	02/17/25 20:04	SMB	L800697
Diethyl phthalate	<0.014	mg/Kg - dry	0.014	0.238	1	02/17/25 20:04	SMB	L800697
Dimethyl phthalate	<0.019	mg/Kg - dry	0.019	0.238	1	02/17/25 20:04	SMB	L800697
2,4-Dimethylphenol	<0.030	mg/Kg - dry	0.030	0.238	1	02/17/25 20:04	SMB	L800697
Di-n-butyl phthalate	<0.020	mg/Kg - dry	0.020	0.238	1	02/17/25 20:04	SMB	L800697
4,6-Dinitro-2-methylphenol	<0.012	mg/Kg - dry	0.012	0.462	1	02/17/25 20:04	SMB	L800697
2,4-Dinitrophenol	<0.013	mg/Kg - dry	0.013	0.462	1	02/17/25 20:04	SMB	L800697

Qualifiers/	*	Outside QC Limit	DF	Dilution Factor
Definitions	J	Estimated value	M	Minimum value
	MQL	Method Quantitation Limit		

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91628**

Matrix: **Solids**

Sample ID : **SW-5**

Sampled: **1/30/2025 13:20**

Analytical Method: 8270E

Prep Batch(es): **L799905** 02/13/25 11:38

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
2,4-Dinitrotoluene	<0.015	mg/Kg - dry	0.015	0.238	1	02/17/25 20:04	SMB	L800697
2,6-Dinitrotoluene	<0.016	mg/Kg - dry	0.016	0.238	1	02/17/25 20:04	SMB	L800697
Di-n-Octyl Phthalate	<0.030	mg/Kg - dry	0.030	0.238	1	02/17/25 20:04	SMB	L800697
Fluoranthene	<0.014	mg/Kg - dry	0.014	0.093	1	02/17/25 20:04	SMB	L800697
Fluorene	<0.021	mg/Kg - dry	0.021	0.093	1	02/17/25 20:04	SMB	L800697
Hexachlorobenzene	<0.015	mg/Kg - dry	0.015	0.238	1	02/17/25 20:04	SMB	L800697
Hexachlorobutadiene	<0.013	mg/Kg - dry	0.013	0.238	1	02/17/25 20:04	SMB	L800697
Hexachloroethane	<0.014	mg/Kg - dry	0.014	0.238	1	02/17/25 20:04	SMB	L800697
Indeno(1,2,3-cd)pyrene	<0.024	mg/Kg - dry	0.024	0.093	1	02/17/25 20:04	SMB	L800697
Isophorone	<0.015	mg/Kg - dry	0.015	0.238	1	02/17/25 20:04	SMB	L800697
1-Methylnaphthalene	0.344	mg/Kg - dry	0.023	0.093	1	02/17/25 20:04	SMB	L800697
2-Methylnaphthalene	0.373	mg/Kg - dry	0.013	0.093	1	02/17/25 20:04	SMB	L800697
2-Methylphenol	<0.021	mg/Kg - dry	0.021	0.238	1	02/17/25 20:04	SMB	L800697
3&4 Methylphenol	<0.020	mg/Kg - dry	0.020	0.238	1	02/17/25 20:04	SMB	L800697
Naphthalene	0.299	mg/Kg - dry	0.015	0.093	1	02/17/25 20:04	SMB	L800697
2-Nitroaniline	<0.023	mg/Kg - dry	0.023	0.238	1	02/17/25 20:04	SMB	L800697
3-Nitroaniline	<0.013	mg/Kg - dry	0.013	0.462	1	02/17/25 20:04	SMB	L800697
4-Nitroaniline	<0.016	mg/Kg - dry	0.016	0.238	1	02/17/25 20:04	SMB	L800697
Nitrobenzene	<0.009	mg/Kg - dry	0.009	0.238	1	02/17/25 20:04	SMB	L800697
2-Nitrophenol	<0.023	mg/Kg - dry	0.023	0.238	1	02/17/25 20:04	SMB	L800697
4-Nitrophenol	<0.019	mg/Kg - dry	0.019	0.238	1	02/17/25 20:04	SMB	L800697
N-Nitrosodimethylamine	<0.007	mg/Kg - dry	0.007	0.238	1	02/17/25 20:04	SMB	L800697

Qualifiers/	*	Outside QC Limit
Definitions	J	Estimated value
	MQL	Method Quantitation Limit

DF	Dilution Factor
M	Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91628**

Matrix: **Solids**

Sample ID : **SW-5**

Sampled: **1/30/2025 13:20**

Analytical Method: 8270E

Prep Batch(es): **L799905** 02/13/25 11:38

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
N-Nitrosodiphenylamine	<0.017	mg/Kg - dry	0.017	0.462	1	02/17/25 20:04	SMB	L800697
N-Nitroso-di-n-propylamine	<0.014	mg/Kg - dry	0.014	0.238	1	02/17/25 20:04	SMB	L800697
Pentachlorophenol	<0.026	mg/Kg - dry	0.026	0.462	1	02/17/25 20:04	SMB	L800697
Phenanthrene	<0.019	mg/Kg - dry	0.019	0.093	1	02/17/25 20:04	SMB	L800697
Phenol	<0.028	mg/Kg - dry	0.028	0.238	1	02/17/25 20:04	SMB	L800697
Pyrene	<0.017	mg/Kg - dry	0.017	0.093	1	02/17/25 20:04	SMB	L800697
Pyridine	<0.021	mg/Kg - dry	0.021	0.462	1	02/17/25 20:04	SMB	L800697
1,2,4-Trichlorobenzene	<0.014	mg/Kg - dry	0.014	0.238	1	02/17/25 20:04	SMB	L800697
2,4,5-Trichlorophenol	<0.028	mg/Kg - dry	0.028	0.238	1	02/17/25 20:04	SMB	L800697
2,4,6-Trichlorophenol	<0.020	mg/Kg - dry	0.020	0.238	1	02/17/25 20:04	SMB	L800697
Surrogate: 2-Fluorobiphenyl	53.7		Limits: 20-79%		1	02/17/25 20:04	SMB	L800697
Surrogate: 2-Fluorophenol	51.2		Limits: 10-85%		1	02/17/25 20:04	SMB	L800697
Surrogate: Nitrobenzene-d5	52.8		Limits: 22-72%		1	02/17/25 20:04	SMB	L800697
Surrogate: Phenol-d6	51.2		Limits: 10-96%		1	02/17/25 20:04	SMB	L800697
Surrogate: 4-Terphenyl-d14	51.2		Limits: 22-104%		1	02/17/25 20:04	SMB	L800697
Surrogate: 2,4,6-Tribromophenol	59.8		Limits: 10-112%		1	02/17/25 20:04	SMB	L800697

**Qualifiers/
Definitions**

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91628**

Matrix: **Solids**

Sample ID : **SW-5**

Sampled: **1/30/2025 13:20**

Analytical Method: MADEP-EPH **Prep Batch(es):** **L799927** 02/13/25 13:00

Prep Method: MAEPH (Prep)

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Aliphatic C9-C18	518	mg/Kg - dry	16.5	42.0	10	02/24/25 13:52	MMK	L800398
Aliphatic C19-C36	5.32 J	mg/Kg - dry	1.33	5.60	1	02/21/25 22:43	MMK	L800398
Aromatic C11-C22	86.7	mg/Kg - dry	5.53	11.9	1	02/21/25 22:43	MMK	L800398
Surrogate: 2-Fluorobiphenyl	90.9		Limits: 40-140%		1	02/21/25 22:43		MADEP-EPH
Surrogate: OTP Surrogate	57.9		Limits: 40-140%		1	02/21/25 22:43		MADEP-EPH
Surrogate: Chlorooctadecane	52.3		Limits: 40-140%		10	02/24/25 13:52		MADEP-EPH

Analytical Method: MADEP-VPH **Prep Batch(es):** **V56312** 02/14/25 15:06

Prep Method: MAVPH (Prep)

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Aliphatic C5-C8	<8.52	mg/Kg - dry	8.52	56.0	500	02/14/25 17:53	BLJ	V56313
Aliphatic C9-C12	669	mg/Kg - dry	31.9	56.0	500	02/14/25 17:53	BLJ	V56313
Aromatic C9-C10	148	mg/Kg - dry	4.37	56.0	500	02/14/25 17:53	BLJ	V56313
Surrogate: 2,5-Dibromotoluene (FID)	80.2		Limits: 70-130%		500	02/14/25 17:53	BLJ	MADEP-VPH
Surrogate: 2,5-Dibromotoluene (PID)	74.1		Limits: 70-130%		500	02/14/25 17:53	BLJ	MADEP-VPH

**Qualifiers/
Definitions**

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91629**

Matrix: **Solids**

Sample ID : **SW-6**

Sampled: **1/30/2025 13:25**

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Method
Moisture	24.1	%			1	02/04/25 14:22	CJR	SW-DRYWT

**Qualifiers/
Definitions**

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91629**

Matrix: **Solids**

Sample ID : **SW-6**

Sampled: **1/30/2025 13:25**

Analytical Method: 8015C DRO

Prep Batch(es): **L798453** 02/06/25 08:00

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Diesel Range Organics (C10-C28)	319	mg/Kg - dry	25.0	43.9	10	02/07/25 21:24	MMK	L798798
Surrogate: OTP Surrogate	146		Limits: 50-150%		10	02/07/25 21:24		8015C DRO

Analytical Method: 8015C GRO

Prep Batch(es): **V56079** 02/06/25 13:59

Prep Method: 5035 MED

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Gasoline Range Organics (C6-C10)	<2.73	mg/Kg - dry	2.73	6.59	50	02/07/25 03:26	BLJ	V56086
Surrogate: a,a,a-Trifluorotoluene	83.7		Limits: 50-137%		50	02/07/25 03:26	BLJ	8015C GRO

Analytical Method: 8260D

Prep Batch(es): **V56274** 02/13/25 16:30

Prep Method: 5035

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acetone	<0.004	mg/Kg - dry	0.004	0.041	1	02/13/25 21:22	VBW	V56279
Acrolein	<0.002	mg/Kg - dry	0.002	0.041	1	02/13/25 21:22	VBW	V56279
Acrylonitrile	<0.001	mg/Kg - dry	0.001	0.041	1	02/13/25 21:22	VBW	V56279
Benzene	<0.001	mg/Kg - dry	0.001	0.010	1	02/13/25 21:22	VBW	V56279
Bromobenzene	<0.001	mg/Kg - dry	0.001	0.010	1	02/13/25 21:22	VBW	V56279
Bromochloromethane	<0.001	mg/Kg - dry	0.001	0.010	1	02/13/25 21:22	VBW	V56279
Bromodichloromethane	<0.002	mg/Kg - dry	0.002	0.010	1	02/13/25 21:22	VBW	V56279
Bromoform	<0.002	mg/Kg - dry	0.002	0.010	1	02/13/25 21:22	VBW	V56279
Bromomethane	<0.003	mg/Kg - dry	0.003	0.020	1	02/13/25 21:22	VBW	V56279

**Qualifiers/
Definitions**

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91629**

Matrix: **Solids**

Sample ID : **SW-6**

Sampled: **1/30/2025 13:25**

Analytical Method: 8260D

Prep Batch(es): **V56274** 02/13/25 16:30

Prep Method: 5035

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
n-Butylbenzene	0.007 JM	mg/Kg - dry	0.001	0.010	1	02/13/25 21:22	VBW	V56279
sec-Butyl benzene	0.008 JM	mg/Kg - dry	0.001	0.010	1	02/13/25 21:22	VBW	V56279
tert-Butyl benzene	<0.001 M	mg/Kg - dry	0.001	0.010	1	02/13/25 21:22	VBW	V56279
Carbon Disulfide	<0.001	mg/Kg - dry	0.001	0.010	1	02/13/25 21:22	VBW	V56279
Carbon Tetrachloride	<0.003	mg/Kg - dry	0.003	0.010	1	02/13/25 21:22	VBW	V56279
Chlorobenzene	<0.001	mg/Kg - dry	0.001	0.010	1	02/13/25 21:22	VBW	V56279
Chlorodibromomethane	<0.001	mg/Kg - dry	0.001	0.010	1	02/13/25 21:22	VBW	V56279
Chloroethane	<0.001	mg/Kg - dry	0.001	0.020	1	02/13/25 21:22	VBW	V56279
Chloroform	<0.002	mg/Kg - dry	0.002	0.010	1	02/13/25 21:22	VBW	V56279
Chloromethane	<0.001	mg/Kg - dry	0.001	0.020	1	02/13/25 21:22	VBW	V56279
2-Chlorotoluene	<0.001	mg/Kg - dry	0.001	0.010	1	02/13/25 21:22	VBW	V56279
4-Chlorotoluene	<0.0008	mg/Kg - dry	0.0008	0.010	1	02/13/25 21:22	VBW	V56279
Di-Isopropyl Ether (DIPE)	<0.001	mg/Kg - dry	0.001	0.010	1	02/13/25 21:22	VBW	V56279
1,2-Dibromo-3-Chloropropane	<0.0009	mg/Kg - dry	0.0009	0.020	1	02/13/25 21:22	VBW	V56279
1,2-Dibromoethane	<0.001	mg/Kg - dry	0.001	0.010	1	02/13/25 21:22	VBW	V56279
Dibromomethane	<0.001	mg/Kg - dry	0.001	0.010	1	02/13/25 21:22	VBW	V56279
1,2-Dichlorobenzene	<0.0006	mg/Kg - dry	0.0006	0.010	1	02/13/25 21:22	VBW	V56279
1,3-Dichlorobenzene	<0.0008	mg/Kg - dry	0.0008	0.010	1	02/13/25 21:22	VBW	V56279
1,4-Dichlorobenzene	<0.001	mg/Kg - dry	0.001	0.010	1	02/13/25 21:22	VBW	V56279
Dichlorodifluoromethane	<0.002	mg/Kg - dry	0.002	0.020	1	02/13/25 21:22	VBW	V56279
1,1-Dichloroethane	<0.001	mg/Kg - dry	0.001	0.010	1	02/13/25 21:22	VBW	V56279
1,2-Dichloroethane	<0.002	mg/Kg - dry	0.002	0.010	1	02/13/25 21:22	VBW	V56279

Qualifiers/	*	Outside QC Limit	DF	Dilution Factor
Definitions	J	Estimated value	M	Minimum value
	MQL	Method Quantitation Limit		

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91629**

Matrix: **Solids**

Sample ID : **SW-6**

Sampled: **1/30/2025 13:25**

Analytical Method: 8260D

Prep Batch(es): **V56274** 02/13/25 16:30

Prep Method: 5035

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
1,1-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.010	1	02/13/25 21:22	VBW	V56279
cis-1,2-Dichloroethene	<0.001	mg/Kg - dry	0.001	0.010	1	02/13/25 21:22	VBW	V56279
trans-1,2-Dichloroethene	<0.002	mg/Kg - dry	0.002	0.010	1	02/13/25 21:22	VBW	V56279
1,2-Dichloropropane	<0.0009	mg/Kg - dry	0.0009	0.010	1	02/13/25 21:22	VBW	V56279
1,3-Dichloropropane	<0.001	mg/Kg - dry	0.001	0.010	1	02/13/25 21:22	VBW	V56279
2,2-Dichloropropane	<0.002	mg/Kg - dry	0.002	0.010	1	02/13/25 21:22	VBW	V56279
1,1-Dichloropropene	<0.001	mg/Kg - dry	0.001	0.010	1	02/13/25 21:22	VBW	V56279
cis-1,3-Dichloropropene	<0.001	mg/Kg - dry	0.001	0.010	1	02/13/25 21:22	VBW	V56279
trans-1,3-Dichloropropene	<0.001	mg/Kg - dry	0.001	0.010	1	02/13/25 21:22	VBW	V56279
Ethanol	<0.028	mg/Kg - dry	0.028	0.515	1	02/13/25 21:22	VBW	V56279
Ethylbenzene	0.009 JM	mg/Kg - dry	0.001	0.010	1	02/13/25 21:22	VBW	V56279
Ethyl Tertiary Butyl Ether (ETBE)	<0.001	mg/Kg - dry	0.001	0.102	1	02/13/25 21:22	VBW	V56279
Hexachlorobutadiene	<0.001 M	mg/Kg - dry	0.001	0.020	1	02/13/25 21:22	VBW	V56279
n-Hexane	0.007 J	mg/Kg - dry	0.001	0.020	1	02/13/25 21:22	VBW	V56279
2-Hexanone	<0.001	mg/Kg - dry	0.001	0.041	1	02/13/25 21:22	VBW	V56279
Isopropylbenzene	0.007 J	mg/Kg - dry	0.0009	0.010	1	02/13/25 21:22	VBW	V56279
4-Isopropyl toluene	<0.002 M	mg/Kg - dry	0.002	0.010	1	02/13/25 21:22	VBW	V56279
Methyl Ethyl Ketone (MEK)	<0.001	mg/Kg - dry	0.001	0.041	1	02/13/25 21:22	VBW	V56279
Methyl tert-butyl ether (MTBE)	<0.001	mg/Kg - dry	0.001	0.010	1	02/13/25 21:22	VBW	V56279
4-Methyl-2-Pentanone	<0.030	mg/Kg - dry	0.030	0.041	1	02/13/25 21:22	VBW	V56279
Methylene Chloride	<0.003	mg/Kg - dry	0.003	0.020	1	02/13/25 21:22	VBW	V56279
Naphthalene	<0.002	mg/Kg - dry	0.002	0.020	1	02/13/25 21:22	VBW	V56279

**Qualifiers/
Definitions**

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91629**

Matrix: **Solids**

Sample ID : **SW-6**

Sampled: **1/30/2025 13:25**

Analytical Method: 8260D

Prep Batch(es): **V56274** 02/13/25 16:30

Prep Method: 5035

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
n-Propylbenzene	0.011 M	mg/Kg - dry	0.001	0.010	1	02/13/25 21:22	VBW	V56279
Styrene	<0.002	mg/Kg - dry	0.002	0.010	1	02/13/25 21:22	VBW	V56279
1,1,1,2-Tetrachloroethane	<0.002	mg/Kg - dry	0.002	0.010	1	02/13/25 21:22	VBW	V56279
1,1,2,2-Tetrachloroethane	<0.0007	mg/Kg - dry	0.0007	0.010	1	02/13/25 21:22	VBW	V56279
Tetrachloroethene	<0.001	mg/Kg - dry	0.001	0.010	1	02/13/25 21:22	VBW	V56279
Toluene	<0.001	mg/Kg - dry	0.001	0.010	1	02/13/25 21:22	VBW	V56279
1,2,3-Trichlorobenzene	<0.001	mg/Kg - dry	0.001	0.020	1	02/13/25 21:22	VBW	V56279
1,2,4-Trichlorobenzene	<0.001	mg/Kg - dry	0.001	0.020	1	02/13/25 21:22	VBW	V56279
1,1,1-Trichloroethane	<0.002	mg/Kg - dry	0.002	0.010	1	02/13/25 21:22	VBW	V56279
1,1,2-Trichloroethane	<0.0010	mg/Kg - dry	0.0010	0.010	1	02/13/25 21:22	VBW	V56279
Trichloroethene	<0.001	mg/Kg - dry	0.001	0.010	1	02/13/25 21:22	VBW	V56279
Trichlorofluoromethane	<0.004 M	mg/Kg - dry	0.004	0.020	1	02/13/25 21:22	VBW	V56279
1,2,3-Trichloropropane	<0.001	mg/Kg - dry	0.001	0.010	1	02/13/25 21:22	VBW	V56279
1,2,4-Trimethylbenzene	<0.001	mg/Kg - dry	0.001	0.010	1	02/13/25 21:22	VBW	V56279
1,3,5-Trimethylbenzene	<0.001 M	mg/Kg - dry	0.001	0.010	1	02/13/25 21:22	VBW	V56279
Vinyl Acetate	<0.0009	mg/Kg - dry	0.0009	0.020	1	02/13/25 21:22	VBW	V56279
Vinyl Chloride	<0.0010	mg/Kg - dry	0.0010	0.020	1	02/13/25 21:22	VBW	V56279
o-Xylene	<0.001	mg/Kg - dry	0.001	0.010	1	02/13/25 21:22	VBW	V56279
m,p-Xylene	<0.002	mg/Kg - dry	0.002	0.020	1	02/13/25 21:22	VBW	V56279

**Qualifiers/
Definitions**

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91629**

Matrix: **Solids**

Sample ID : **SW-6**

Sampled: **1/30/2025 13:25**

Analytical Method: 8260D

Prep Batch(es): **V56274** 02/13/25 16:30

Prep Method: 5035

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Xylene (Total)	<0.001	mg/Kg - dry	0.001	0.010	1	02/13/25 21:22		V56279
Surrogate: 4-Bromofluorobenzene	115		Limits: 70-130%		1	02/13/25 21:22	VBW	V56279
Surrogate: Dibromofluoromethane	121		Limits: 70-130%		1	02/13/25 21:22	VBW	V56279
Surrogate: Toluene-d8	103		Limits: 70-130%		1	02/13/25 21:22	VBW	V56279

Analytical Method: 8270E

Prep Batch(es): **L799905** 02/13/25 11:38

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acenaphthene	<0.014	mg/Kg - dry	0.014	0.087	1	02/17/25 20:22	SMB	L800697
Acenaphthylene	<0.015	mg/Kg - dry	0.015	0.087	1	02/17/25 20:22	SMB	L800697
Aniline	<0.005	mg/Kg - dry	0.005	0.223	1	02/17/25 20:22	SMB	L800697
Anthracene	<0.017	mg/Kg - dry	0.017	0.087	1	02/17/25 20:22	SMB	L800697
Benzo(a)anthracene	<0.011	mg/Kg - dry	0.011	0.087	1	02/17/25 20:22	SMB	L800697
Benzo(a)pyrene	<0.013	mg/Kg - dry	0.013	0.087	1	02/17/25 20:22	SMB	L800697
Benzo(b)fluoranthene	<0.011	mg/Kg - dry	0.011	0.087	1	02/17/25 20:22	SMB	L800697
Benzo(g,h,i)perylene	<0.017	mg/Kg - dry	0.017	0.087	1	02/17/25 20:22	SMB	L800697
Benzo(k)fluoranthene	<0.015	mg/Kg - dry	0.015	0.087	1	02/17/25 20:22	SMB	L800697
Benzoic Acid	<0.022	mg/Kg - dry	0.022	0.434	1	02/17/25 20:22	SMB	L800697
Benzyl alcohol	<0.028	mg/Kg - dry	0.028	0.434	1	02/17/25 20:22	SMB	L800697
Bis(2-Chloroethoxy)methane	<0.014	mg/Kg - dry	0.014	0.223	1	02/17/25 20:22	SMB	L800697
Bis(2-Chloroethyl)ether	<0.008	mg/Kg - dry	0.008	0.223	1	02/17/25 20:22	SMB	L800697
Bis(2-Chloroisopropyl)ether	<0.028	mg/Kg - dry	0.028	0.223	1	02/17/25 20:22	SMB	L800697

Qualifiers/	*	Outside QC Limit	DF	Dilution Factor
Definitions	J	Estimated value	M	Minimum value
	MQL	Method Quantitation Limit		

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91629**

Matrix: **Solids**

Sample ID : **SW-6**

Sampled: **1/30/2025 13:25**

Analytical Method: 8270E

Prep Batch(es): **L799905** 02/13/25 11:38

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Bis(2-ethylhexyl)phthalate	<0.020	mg/Kg - dry	0.020	0.434	1	02/17/25 20:22	SMB	L800697
4-Bromophenyl phenyl ether	<0.019	mg/Kg - dry	0.019	0.223	1	02/17/25 20:22	SMB	L800697
Butyl benzyl phthalate	<0.022	mg/Kg - dry	0.022	0.223	1	02/17/25 20:22	SMB	L800697
4-Chloro-3-methylphenol	<0.021	mg/Kg - dry	0.021	0.223	1	02/17/25 20:22	SMB	L800697
4-Chloroaniline	<0.016	mg/Kg - dry	0.016	0.223	1	02/17/25 20:22	SMB	L800697
2-Chloronaphthalene	<0.012	mg/Kg - dry	0.012	0.223	1	02/17/25 20:22	SMB	L800697
2-Chlorophenol	<0.017	mg/Kg - dry	0.017	0.223	1	02/17/25 20:22	SMB	L800697
4-Chlorophenyl phenyl ether	<0.015	mg/Kg - dry	0.015	0.223	1	02/17/25 20:22	SMB	L800697
Chrysene	<0.014	mg/Kg - dry	0.014	0.087	1	02/17/25 20:22	SMB	L800697
Dibenz(a,h)anthracene	<0.015	mg/Kg - dry	0.015	0.087	1	02/17/25 20:22	SMB	L800697
Dibenzofuran	<0.019	mg/Kg - dry	0.019	0.223	1	02/17/25 20:22	SMB	L800697
1,2-Dichlorobenzene	<0.011	mg/Kg - dry	0.011	0.223	1	02/17/25 20:22	SMB	L800697
1,3-Dichlorobenzene	<0.011	mg/Kg - dry	0.011	0.223	1	02/17/25 20:22	SMB	L800697
1,4-Dichlorobenzene	<0.012	mg/Kg - dry	0.012	0.223	1	02/17/25 20:22	SMB	L800697
3,3'-Dichlorobenzidine	<0.144	mg/Kg - dry	0.144	0.434	1	02/17/25 20:22	SMB	L800697
2,4-Dichlorophenol	<0.020	mg/Kg - dry	0.020	0.223	1	02/17/25 20:22	SMB	L800697
Diethyl phthalate	<0.014	mg/Kg - dry	0.014	0.223	1	02/17/25 20:22	SMB	L800697
Dimethyl phthalate	<0.018	mg/Kg - dry	0.018	0.223	1	02/17/25 20:22	SMB	L800697
2,4-Dimethylphenol	<0.028	mg/Kg - dry	0.028	0.223	1	02/17/25 20:22	SMB	L800697
Di-n-butyl phthalate	<0.019	mg/Kg - dry	0.019	0.223	1	02/17/25 20:22	SMB	L800697
4,6-Dinitro-2-methylphenol	<0.011	mg/Kg - dry	0.011	0.434	1	02/17/25 20:22	SMB	L800697
2,4-Dinitrophenol	<0.012	mg/Kg - dry	0.012	0.434	1	02/17/25 20:22	SMB	L800697

Qualifiers/	*	Outside QC Limit	DF	Dilution Factor
Definitions	J	Estimated value	M	Minimum value
	MQL	Method Quantitation Limit		

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91629**

Matrix: **Solids**

Sample ID : **SW-6**

Sampled: **1/30/2025 13:25**

Analytical Method: 8270E

Prep Batch(es): **L799905** 02/13/25 11:38

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
2,4-Dinitrotoluene	<0.014	mg/Kg - dry	0.014	0.223	1	02/17/25 20:22	SMB	L800697
2,6-Dinitrotoluene	<0.015	mg/Kg - dry	0.015	0.223	1	02/17/25 20:22	SMB	L800697
Di-n-Octyl Phthalate	<0.029	mg/Kg - dry	0.029	0.223	1	02/17/25 20:22	SMB	L800697
Fluoranthene	<0.013	mg/Kg - dry	0.013	0.087	1	02/17/25 20:22	SMB	L800697
Fluorene	<0.020	mg/Kg - dry	0.020	0.087	1	02/17/25 20:22	SMB	L800697
Hexachlorobenzene	<0.014	mg/Kg - dry	0.014	0.223	1	02/17/25 20:22	SMB	L800697
Hexachlorobutadiene	<0.012	mg/Kg - dry	0.012	0.223	1	02/17/25 20:22	SMB	L800697
Hexachloroethane	<0.013	mg/Kg - dry	0.013	0.223	1	02/17/25 20:22	SMB	L800697
Indeno(1,2,3-cd)pyrene	<0.023	mg/Kg - dry	0.023	0.087	1	02/17/25 20:22	SMB	L800697
Isophorone	<0.014	mg/Kg - dry	0.014	0.223	1	02/17/25 20:22	SMB	L800697
1-Methylnaphthalene	0.077 J	mg/Kg - dry	0.022	0.087	1	02/17/25 20:22	SMB	L800697
2-Methylnaphthalene	0.110	mg/Kg - dry	0.012	0.087	1	02/17/25 20:22	SMB	L800697
2-Methylphenol	<0.020	mg/Kg - dry	0.020	0.223	1	02/17/25 20:22	SMB	L800697
3&4 Methylphenol	<0.019	mg/Kg - dry	0.019	0.223	1	02/17/25 20:22	SMB	L800697
Naphthalene	0.063 J	mg/Kg - dry	0.014	0.087	1	02/17/25 20:22	SMB	L800697
2-Nitroaniline	<0.022	mg/Kg - dry	0.022	0.223	1	02/17/25 20:22	SMB	L800697
3-Nitroaniline	<0.012	mg/Kg - dry	0.012	0.434	1	02/17/25 20:22	SMB	L800697
4-Nitroaniline	<0.015	mg/Kg - dry	0.015	0.223	1	02/17/25 20:22	SMB	L800697
Nitrobenzene	<0.008	mg/Kg - dry	0.008	0.223	1	02/17/25 20:22	SMB	L800697
2-Nitrophenol	<0.022	mg/Kg - dry	0.022	0.223	1	02/17/25 20:22	SMB	L800697
4-Nitrophenol	<0.018	mg/Kg - dry	0.018	0.223	1	02/17/25 20:22	SMB	L800697
N-Nitrosodimethylamine	<0.007	mg/Kg - dry	0.007	0.223	1	02/17/25 20:22	SMB	L800697

Qualifiers/	*	Outside QC Limit	DF	Dilution Factor
Definitions	J	Estimated value	M	Minimum value
	MQL	Method Quantitation Limit		

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91629**

Matrix: **Solids**

Sample ID : **SW-6**

Sampled: **1/30/2025 13:25**

Analytical Method: 8270E

Prep Batch(es): **L799905** 02/13/25 11:38

Prep Method: 3546

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
N-Nitrosodiphenylamine	<0.016	mg/Kg - dry	0.016	0.434	1	02/17/25 20:22	SMB	L800697
N-Nitroso-di-n-propylamine	<0.013	mg/Kg - dry	0.013	0.223	1	02/17/25 20:22	SMB	L800697
Pentachlorophenol	<0.024	mg/Kg - dry	0.024	0.434	1	02/17/25 20:22	SMB	L800697
Phenanthrene	<0.018	mg/Kg - dry	0.018	0.087	1	02/17/25 20:22	SMB	L800697
Phenol	<0.026	mg/Kg - dry	0.026	0.223	1	02/17/25 20:22	SMB	L800697
Pyrene	<0.016	mg/Kg - dry	0.016	0.087	1	02/17/25 20:22	SMB	L800697
Pyridine	<0.020	mg/Kg - dry	0.020	0.434	1	02/17/25 20:22	SMB	L800697
1,2,4-Trichlorobenzene	<0.013	mg/Kg - dry	0.013	0.223	1	02/17/25 20:22	SMB	L800697
2,4,5-Trichlorophenol	<0.026	mg/Kg - dry	0.026	0.223	1	02/17/25 20:22	SMB	L800697
2,4,6-Trichlorophenol	<0.019	mg/Kg - dry	0.019	0.223	1	02/17/25 20:22	SMB	L800697
Surrogate: 2-Fluorobiphenyl	59.3		Limits: 20-79%		1	02/17/25 20:22	SMB	L800697
Surrogate: 2-Fluorophenol	58.7		Limits: 10-85%		1	02/17/25 20:22	SMB	L800697
Surrogate: Nitrobenzene-d5	57.5		Limits: 22-72%		1	02/17/25 20:22	SMB	L800697
Surrogate: Phenol-d6	61.7		Limits: 10-96%		1	02/17/25 20:22	SMB	L800697
Surrogate: 4-Terphenyl-d14	58.4		Limits: 22-104%		1	02/17/25 20:22	SMB	L800697
Surrogate: 2,4,6-Tribromophenol	68.4		Limits: 10-112%		1	02/17/25 20:22	SMB	L800697

**Qualifiers/
Definitions**

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

01102

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project ROW-809 Parcel 24
Information :

Original Report Date : 02/11/2025
Revised Report Date : 02/26/2025
Received : 01/31/2025

Report Number : **25-034-0007**

REPORT OF ANALYSIS

Lab No : **91629**

Matrix: **Solids**

Sample ID : **SW-6**

Sampled: **1/30/2025 13:25**

Analytical Method: MADEP-EPH **Prep Batch(es):** **L799927** 02/13/25 13:00

Prep Method: MAEPH (Prep)

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Aliphatic C9-C18	15.0	mg/Kg - dry	1.55	3.95	1	02/21/25 23:04	MMK	L800398
Aliphatic C19-C36	3.35 J	mg/Kg - dry	1.25	5.27	1	02/21/25 23:04	MMK	L800398
Aromatic C11-C22	20.6	mg/Kg - dry	5.20	11.2	1	02/21/25 23:04	MMK	L800398
Surrogate: 2-Fluorobiphenyl	99.4		Limits: 40-140%		1	02/21/25 23:04		MADEP-EPH
Surrogate: Chlorooctadecane	55.0		Limits: 40-140%		1	02/21/25 23:04		MADEP-EPH
Surrogate: OTP Surrogate	56.4		Limits: 40-140%		1	02/21/25 23:04		MADEP-EPH

Analytical Method: MADEP-VPH **Prep Batch(es):** **V56281** 02/13/25 19:22

Prep Method: MAVPH (Prep)

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Aliphatic C5-C8	<1.61	mg/Kg - dry	1.61	10.5	100	02/13/25 22:33	BLJ	V56282
Aliphatic C9-C12	16.7	mg/Kg - dry	6.01	10.5	100	02/13/25 22:33	BLJ	V56282
Aromatic C9-C10	3.56 J	mg/Kg - dry	0.822	10.5	100	02/13/25 22:33	BLJ	V56282
Surrogate: 2,5-Dibromotoluene (FID)	75.9		Limits: 70-130%		100	02/13/25 22:33	BLJ	MADEP-VPH
Surrogate: 2,5-Dibromotoluene (PID)	75.1		Limits: 70-130%		100	02/13/25 22:33	BLJ	MADEP-VPH

**Qualifiers/
Definitions**

* Outside QC Limit
J Estimated value
MQL Method Quantitation Limit

DF Dilution Factor
M Minimum value

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 24
Report No: 25-034-0007

QC Prep: L798453 **QC Analytical Batch(es):** L798798
QC Prep Batch Method: 3546 **Analysis Method:** 8015C DRO
Analysis Description: Total Petroleum Hydrocarbons - Extractable

Lab Reagent Blank LRB-L798453 Matrix: SOL
Associated Lab Samples: 91624, 91625, 91626, 91627, 91628, 91629

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Diesel Range Organics (C10-C28)	mg/Kg	<1.90	1.90	3.33	02/08/25 22:41		
OTP Surrogate (S)					02/08/25 22:41	117	50-150

Laboratory Control Sample LCS-L798453

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Diesel Range Organics (C10-C28)	mg/Kg	33.3	43.2	130	50-150
OTP Surrogate (S)				146	50-150

Matrix Spike & Matrix Spike Duplicate V 91644-MS-L798453 V 91644-MSD-L798453

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Diesel Range Organics (C10-C28)	mg/Kg	4.06	33.0	32.6	38.3	42.7	104	119	50-150	10.8	30
OTP Surrogate (S)							125	144	50-150		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)

Project Description: ROW-809 Parcel 24

Report No: 25-034-0007

QC Prep:	V56079	QC Analytical Batch(es):	V56086
QC Prep Batch Method:	5035 MED	Analysis Method:	8015C GRO
		Analysis Description:	Total Petroleum Hydrocarbons - Volatile

Lab Reagent Blank LRB-V56079 Matrix: SOL

Associated Lab Samples: 91624, 91625, 91626, 91627, 91628, 91629

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Gasoline Range Organics (C6-C10)	mg/Kg	<2.07	2.07	5.00	02/06/25 16:25		
a,a,a-Trifluorotoluene (S)					02/06/25 16:25	99.8	50-137

Laboratory Control Sample & LCSD LCS-V56079 LCSD-V56079

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Gasoline Range Organics (C6-C10)	mg/Kg	50.0	53.8	48.5	108	97.0	41-138	10.3	20
a,a,a-Trifluorotoluene (S)					109	97.4	50-137		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 24
Report No: 25-034-0007

QC Prep: V56274
QC Prep Batch Method: 5035
QC Analytical Batch(es): V56279
Analysis Method: 8260D
Analysis Description: Volatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-V56274 Matrix: SOL
Associated Lab Samples: 91624, 91625, 91628, 91629

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Acetone	mg/Kg	<0.002	0.002	0.020	02/13/25 19:35		
Acrolein	mg/Kg	<0.001	0.001	0.020	02/13/25 19:35		
Acrylonitrile	mg/Kg	<0.0008	0.0008	0.020	02/13/25 19:35		
Benzene	mg/Kg	<0.0006	0.0006	0.005	02/13/25 19:35		
Bromobenzene	mg/Kg	<0.0005	0.0005	0.005	02/13/25 19:35		
Bromochloromethane	mg/Kg	<0.0008	0.0008	0.005	02/13/25 19:35		
Bromodichloromethane	mg/Kg	<0.001	0.001	0.005	02/13/25 19:35		
Bromoform	mg/Kg	<0.001	0.001	0.005	02/13/25 19:35		
Bromomethane	mg/Kg	<0.001	0.001	0.010	02/13/25 19:35		
n-Butylbenzene	mg/Kg	<0.0005	0.0005	0.005	02/13/25 19:35		
sec-Butyl benzene	mg/Kg	<0.0006	0.0006	0.005	02/13/25 19:35		
tert-Butyl benzene	mg/Kg	<0.0005	0.0005	0.005	02/13/25 19:35		
Carbon Disulfide	mg/Kg	<0.0006	0.0006	0.005	02/13/25 19:35		
Carbon Tetrachloride	mg/Kg	<0.001	0.001	0.005	02/13/25 19:35		
Chlorobenzene	mg/Kg	<0.0007	0.0007	0.005	02/13/25 19:35		
Chlorodibromomethane	mg/Kg	<0.0009	0.0009	0.005	02/13/25 19:35		
Chloroethane	mg/Kg	<0.0009	0.0009	0.010	02/13/25 19:35		
Chloroform	mg/Kg	<0.001	0.001	0.005	02/13/25 19:35		
Chloromethane	mg/Kg	<0.0006	0.0006	0.010	02/13/25 19:35		
2-Chlorotoluene	mg/Kg	<0.0005	0.0005	0.005	02/13/25 19:35		
4-Chlorotoluene	mg/Kg	<0.0004	0.0004	0.005	02/13/25 19:35		
Di-Isopropyl Ether (DIPE)	mg/Kg	<0.0007	0.0007	0.005	02/13/25 19:35		
1,2-Dibromo-3-Chloropropane	mg/Kg	<0.0004	0.0004	0.010	02/13/25 19:35		
1,2-Dibromoethane	mg/Kg	<0.0006	0.0006	0.005	02/13/25 19:35		
Dibromomethane	mg/Kg	<0.0006	0.0006	0.005	02/13/25 19:35		
1,2-Dichlorobenzene	mg/Kg	<0.0003	0.0003	0.005	02/13/25 19:35		
1,3-Dichlorobenzene	mg/Kg	<0.0004	0.0004	0.005	02/13/25 19:35		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 24
Report No: 25-034-0007

QC Prep: V56274
QC Prep Batch Method: 5035
QC Analytical Batch(es): V56279
Analysis Method: 8260D
Analysis Description: Volatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-V56274 Matrix: SOL
Associated Lab Samples: 91624, 91625, 91628, 91629

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
1,4-Dichlorobenzene	mg/Kg	<0.0006	0.0006	0.005	02/13/25 19:35		
Dichlorodifluoromethane	mg/Kg	<0.001	0.001	0.010	02/13/25 19:35		
1,1-Dichloroethane	mg/Kg	<0.0008	0.0008	0.005	02/13/25 19:35		
1,2-Dichloroethane	mg/Kg	<0.001	0.001	0.005	02/13/25 19:35		
1,1-Dichloroethene	mg/Kg	<0.0007	0.0007	0.005	02/13/25 19:35		
cis-1,2-Dichloroethene	mg/Kg	<0.0008	0.0008	0.005	02/13/25 19:35		
trans-1,2-Dichloroethene	mg/Kg	<0.001	0.001	0.005	02/13/25 19:35		
1,2-Dichloropropane	mg/Kg	<0.0004	0.0004	0.005	02/13/25 19:35		
1,3-Dichloropropane	mg/Kg	<0.0006	0.0006	0.005	02/13/25 19:35		
2,2-Dichloropropane	mg/Kg	<0.001	0.001	0.005	02/13/25 19:35		
1,1-Dichloropropene	mg/Kg	<0.0008	0.0008	0.005	02/13/25 19:35		
cis-1,3-Dichloropropene	mg/Kg	<0.0005	0.0005	0.005	02/13/25 19:35		
trans-1,3-Dichloropropene	mg/Kg	<0.0008	0.0008	0.005	02/13/25 19:35		
Ethanol	mg/Kg	<0.014	0.014	0.250	02/13/25 19:35		
Ethylbenzene	mg/Kg	<0.0006	0.0006	0.005	02/13/25 19:35		
Ethyl Tertiary Butyl Ether (ETBE)	mg/Kg	<0.0008	0.0008	0.050	02/13/25 19:35		
Hexachlorobutadiene	mg/Kg	<0.0008	0.0008	0.010	02/13/25 19:35		
n-Hexane	mg/Kg	<0.0007	0.0007	0.010	02/13/25 19:35		
2-Hexanone	mg/Kg	<0.0006	0.0006	0.020	02/13/25 19:35		
Isopropylbenzene	mg/Kg	<0.0005	0.0005	0.005	02/13/25 19:35		
4-Isopropyl toluene	mg/Kg	<0.001	0.001	0.005	02/13/25 19:35		
Methyl Ethyl Ketone (MEK)	mg/Kg	<0.0007	0.0007	0.020	02/13/25 19:35		
Methyl tert-butyl ether (MTBE)	mg/Kg	<0.0006	0.0006	0.005	02/13/25 19:35		
4-Methyl-2-Pentanone	mg/Kg	<0.015	0.015	0.020	02/13/25 19:35		
Methylene Chloride	mg/Kg	<0.001	0.001	0.010	02/13/25 19:35		
Naphthalene	mg/Kg	<0.0010	0.0010	0.010	02/13/25 19:35		
n-Propylbenzene	mg/Kg	<0.0005	0.0005	0.005	02/13/25 19:35		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 24
Report No: 25-034-0007

QC Prep: V56274
QC Prep Batch Method: 5035
QC Analytical Batch(es): V56279
Analysis Method: 8260D
Analysis Description: Volatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-V56274 Matrix: SOL
Associated Lab Samples: 91624, 91625, 91628, 91629

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Styrene	mg/Kg	<0.001	0.001	0.005	02/13/25 19:35		
1,1,1,2-Tetrachloroethane	mg/Kg	<0.001	0.001	0.005	02/13/25 19:35		
1,1,2,2-Tetrachloroethane	mg/Kg	<0.0003	0.0003	0.005	02/13/25 19:35		
Tetrachloroethene	mg/Kg	<0.0009	0.0009	0.005	02/13/25 19:35		
Toluene	mg/Kg	<0.0007	0.0007	0.005	02/13/25 19:35		
1,2,3-Trichlorobenzene	mg/Kg	<0.0005	0.0005	0.010	02/13/25 19:35		
1,2,4-Trichlorobenzene	mg/Kg	<0.0006	0.0006	0.010	02/13/25 19:35		
1,1,1-Trichloroethane	mg/Kg	<0.001	0.001	0.005	02/13/25 19:35		
1,1,2-Trichloroethane	mg/Kg	<0.0005	0.0005	0.005	02/13/25 19:35		
Trichloroethene	mg/Kg	<0.0009	0.0009	0.005	02/13/25 19:35		
Trichlorofluoromethane	mg/Kg	<0.002	0.002	0.010	02/13/25 19:35		
1,2,3-Trichloropropane	mg/Kg	<0.0007	0.0007	0.005	02/13/25 19:35		
1,2,4-Trimethylbenzene	mg/Kg	<0.0005	0.0005	0.005	02/13/25 19:35		
1,3,5-Trimethylbenzene	mg/Kg	<0.0005	0.0005	0.005	02/13/25 19:35		
Vinyl Acetate	mg/Kg	<0.0005	0.0005	0.010	02/13/25 19:35		
Vinyl Chloride	mg/Kg	<0.0005	0.0005	0.010	02/13/25 19:35		
o-Xylene	mg/Kg	<0.0005	0.0005	0.005	02/13/25 19:35		
m,p-Xylene	mg/Kg	<0.001	0.001	0.010	02/13/25 19:35		
4-Bromofluorobenzene (S)					02/13/25 19:35	103	70-130
Dibromofluoromethane (S)					02/13/25 19:35	113	70-130
Toluene-d8 (S)					02/13/25 19:35	100	70-130

Laboratory Control Sample & LCSD LCS-V56274 LCSD-V56274

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Acetone	mg/Kg	0.200	0.276	0.262	138	131	29-198	5.2	20

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 24
Report No: 25-034-0007

QC Prep: V56274
QC Prep Batch Method: 5035
QC Analytical Batch(es): V56279
Analysis Method: 8260D
Analysis Description: Volatile Organic Compounds - GC/MS

Laboratory Control Sample & LCSD LCS-V56274 LCSD-V56274

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Acrolein	mg/Kg	0.200	0.379	0.361	190*	181*	70-130	4.8	20
Acrylonitrile	mg/Kg	0.200	0.322	0.368	161*	184*	65-134	13.3	20
Benzene	mg/Kg	0.100	0.100	0.105	100	105	74-127	4.8	20
Bromobenzene	mg/Kg	0.100	0.091	0.094	91.3	94.1	73-125	3.0	20
Bromochloromethane	mg/Kg	0.100	0.124	0.134	124	134	72-134	7.7	20
Bromodichloromethane	mg/Kg	0.100	0.122	0.129	122	129*	75-122	5.5	20
Bromoform	mg/Kg	0.100	0.122	0.128	122	128	66-135	4.8	20
Bromomethane	mg/Kg	0.100	0.104	0.104	104	104	20-180	0.0	20
n-Butylbenzene	mg/Kg	0.100	0.061	0.060	61.6*	60.7*	65-135	1.4	20
sec-Butyl benzene	mg/Kg	0.100	0.067	0.069	67.2	69.7	66-131	3.6	20
tert-Butyl benzene	mg/Kg	0.100	0.069	0.071	69.5	71.3	67-132	2.5	20
Carbon Disulfide	mg/Kg	0.100	0.078	0.090	78.0	90.6	61-129	14.9	20
Carbon Tetrachloride	mg/Kg	0.100	0.093	0.094	93.2	94.1	64-143	0.9	20
Chlorobenzene	mg/Kg	0.100	0.086	0.089	86.9	89.6	74-118	3.0	20
Chlorodibromomethane	mg/Kg	0.100	0.138	0.147	138*	147*	73-122	6.3	20
Chloroethane	mg/Kg	0.100	0.087	0.091	87.6	91.1	33-149	3.9	20
Chloroform	mg/Kg	0.100	0.106	0.110	106	110	73-127	3.7	20
Chloromethane	mg/Kg	0.100	0.091	0.076	91.2	76.7	45-143	17.2	20
2-Chlorotoluene	mg/Kg	0.100	0.081	0.082	81.5	82.9	67-124	1.7	20
4-Chlorotoluene	mg/Kg	0.100	0.084	0.089	84.8	89.9	71-126	5.8	20
Di-Isopropyl Ether (DIPE)	mg/Kg	0.100	0.116	0.119	116	119	59-159	2.5	20
1,2-Dibromo-3-Chloropropane	mg/Kg	0.100	0.124	0.131	124	131	55-157	5.4	20
1,2-Dibromoethane	mg/Kg	0.100	0.154	0.167	154*	167*	70-132	8.0	20
Dibromomethane	mg/Kg	0.100	0.144	0.157	144*	157*	74-133	8.6	20
1,2-Dichlorobenzene	mg/Kg	0.100	0.092	0.092	92.0	92.8	72-123	0.8	20
1,3-Dichlorobenzene	mg/Kg	0.100	0.081	0.080	81.7	80.9	71-120	0.9	20

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 24
Report No: 25-034-0007

QC Prep: V56274
QC Prep Batch Method: 5035
QC Analytical Batch(es): V56279
Analysis Method: 8260D
Analysis Description: Volatile Organic Compounds - GC/MS

Laboratory Control Sample & LCSD LCS-V56274 LCSD-V56274

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
1,4-Dichlorobenzene	mg/Kg	0.100	0.082	0.082	82.4	82.6	71-123	0.2	20
Dichlorodifluoromethane	mg/Kg	0.100	0.082	0.061	82.6	61.7	26-146	28.9*	20
1,1-Dichloroethane	mg/Kg	0.100	0.097	0.100	97.1	100	74-127	2.9	20
1,2-Dichloroethane	mg/Kg	0.100	0.134	0.144	134*	144*	68-128	7.1	20
1,1-Dichloroethene	mg/Kg	0.100	0.075	0.080	75.4	80.7	67-149	6.7	20
cis-1,2-Dichloroethene	mg/Kg	0.100	0.106	0.112	106	112	76-134	5.5	20
trans-1,2-Dichloroethene	mg/Kg	0.100	0.088	0.091	88.3	91.4	73-132	3.4	20
1,2-Dichloropropane	mg/Kg	0.100	0.116	0.119	116	119	73-130	2.5	20
1,3-Dichloropropane	mg/Kg	0.100	0.141	0.152	141*	152*	75-124	7.5	20
2,2-Dichloropropane	mg/Kg	0.100	0.083	0.088	83.8	88.2	50-142	5.1	20
1,1-Dichloropropene	mg/Kg	0.100	0.080	0.080	80.3	80.0	71-130	0.3	20
cis-1,3-Dichloropropene	mg/Kg	0.100	0.124	0.130	124	130*	71-125	4.7	20
trans-1,3-Dichloropropene	mg/Kg	0.100	0.137	0.145	137*	145*	68-123	5.6	20
Ethanol	mg/Kg	2.50	4.23	3.99	169*	160*	70-130	5.8	20
Ethylbenzene	mg/Kg	0.100	0.077	0.076	77.4	76.6	74-128	1.0	20
Ethyl Tertiary Butyl Ether (ETBE)	mg/Kg	0.200	0.260	0.263	130	132*	70-130	1.1	20
Hexachlorobutadiene	mg/Kg	0.100	0.062	0.062	62.5*	62.6*	64-125	0.1	20
n-Hexane	mg/Kg	0.100	0.085	0.094	85.6	94.1	70-130	9.4	20
2-Hexanone	mg/Kg	0.100	0.157	0.165	157	165*	61-157	4.9	20
Isopropylbenzene	mg/Kg	0.100	0.071	0.080	71.7	80.5	68-126	11.5	20
4-Isopropyl toluene	mg/Kg	0.100	0.070	0.070	70.5	70.9	68-129	0.5	20
Methyl Ethyl Ketone (MEK)	mg/Kg	0.100	0.128	0.140	128	140	63-149	8.9	20
Methyl tert-butyl ether (MTBE)	mg/Kg	0.100	0.146	0.150	146*	150*	70-130	2.7	20
4-Methyl-2-Pentanone	mg/Kg	0.100	0.170	0.200	170*	200*	57-162	16.2	20
Methylene Chloride	mg/Kg	0.100	0.116	0.121	116	121	74-129	4.2	20
Naphthalene	mg/Kg	0.100	0.127	0.118	127	118	57-157	7.3	20

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 24
Report No: 25-034-0007

QC Prep: V56274 **QC Analytical Batch(es):** V56279
QC Prep Batch Method: 5035 **Analysis Method:** 8260D
Analysis Description: Volatile Organic Compounds - GC/MS

Laboratory Control Sample & LCSD LCS-V56274 LCSD-V56274

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
n-Propylbenzene	mg/Kg	0.100	0.072	0.074	72.1	74.0	67-130	2.6	20
Styrene	mg/Kg	0.100	0.094	0.096	94.8	96.0	77-121	1.2	20
1,1,1,2-Tetrachloroethane	mg/Kg	0.100	0.096	0.102	96.4	102	72-115	5.6	20
1,1,2,2-Tetrachloroethane	mg/Kg	0.100	0.129	0.137	129*	137*	56-126	6.0	20
Tetrachloroethene	mg/Kg	0.100	0.085	0.088	85.2	88.0	68-130	3.2	20
Toluene	mg/Kg	0.100	0.096	0.101	96.7	101	71-129	4.3	20
1,2,3-Trichlorobenzene	mg/Kg	0.100	0.119	0.111	119	111	68-130	6.9	20
1,2,4-Trichlorobenzene	mg/Kg	0.100	0.103	0.096	103	96.9	66-125	6.1	20
1,1,1-Trichloroethane	mg/Kg	0.100	0.083	0.087	83.4	87.2	67-131	4.4	20
1,1,2-Trichloroethane	mg/Kg	0.100	0.148	0.159	148*	159*	70-133	7.1	20
Trichloroethene	mg/Kg	0.100	0.091	0.092	91.1	92.5	75-133	1.5	20
Trichlorofluoromethane	mg/Kg	0.100	0.078	0.070	78.4	70.0	44-146	11.3	20
1,2,3-Trichloropropane	mg/Kg	0.100	0.116	0.129	116	129	60-137	10.6	20
1,2,4-Trimethylbenzene	mg/Kg	0.100	0.082	0.082	82.2	82.6	69-129	0.4	20
1,3,5-Trimethylbenzene	mg/Kg	0.100	0.075	0.076	75.2	76.0	69-128	1.0	20
Vinyl Acetate	mg/Kg	0.100	0.155	0.165	155*	165*	60-140	6.2	20
Vinyl Chloride	mg/Kg	0.100	0.083	0.071	83.5	71.5	48-147	15.4	20
o-Xylene	mg/Kg	0.100	0.081	0.085	81.6	85.4	74-126	4.5	20
m,p-Xylene	mg/Kg	0.200	0.161	0.161	80.5	80.5	75-124	0.0	20
4-Bromofluorobenzene (S)					112	112	70-130		
Dibromofluoromethane (S)					122	128	70-130		
Toluene-d8 (S)					109	114	70-130		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 24
Report No: 25-034-0007

QC Prep: L799905
QC Prep Batch Method: 3546
QC Analytical Batch(es): L800697
Analysis Method: 8270E
Analysis Description: Semivolatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-L799905 Matrix: SOL
Associated Lab Samples: 91624, 91625, 91628, 91629

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Acenaphthene	mg/Kg	<0.010	0.010	0.066	02/17/25 17:54		
Acenaphthylene	mg/Kg	<0.011	0.011	0.066	02/17/25 17:54		
Aniline	mg/Kg	<0.004	0.004	0.170	02/17/25 17:54		
Anthracene	mg/Kg	<0.013	0.013	0.066	02/17/25 17:54		
Benzo(a)anthracene	mg/Kg	<0.008	0.008	0.066	02/17/25 17:54		
Benzo(a)pyrene	mg/Kg	<0.010	0.010	0.066	02/17/25 17:54		
Benzo(b)fluoranthene	mg/Kg	<0.008	0.008	0.066	02/17/25 17:54		
Benzo(g,h,i)perylene	mg/Kg	<0.013	0.013	0.066	02/17/25 17:54		
Benzo(k)fluoranthene	mg/Kg	<0.011	0.011	0.066	02/17/25 17:54		
Benzoic Acid	mg/Kg	<0.016	0.016	0.330	02/17/25 17:54		
Benzyl alcohol	mg/Kg	<0.021	0.021	0.330	02/17/25 17:54		
Bis(2-Chloroethoxy)methane	mg/Kg	<0.011	0.011	0.170	02/17/25 17:54		
Bis(2-Chloroethyl)ether	mg/Kg	<0.006	0.006	0.170	02/17/25 17:54		
Bis(2-Chloroisopropyl)ether	mg/Kg	<0.021	0.021	0.170	02/17/25 17:54		
Bis(2-ethylhexyl)phthalate	mg/Kg	<0.015	0.015	0.330	02/17/25 17:54		
4-Bromophenyl phenyl ether	mg/Kg	<0.015	0.015	0.170	02/17/25 17:54		
Butyl benzyl phthalate	mg/Kg	<0.017	0.017	0.170	02/17/25 17:54		
4-Chloro-3-methylphenol	mg/Kg	<0.016	0.016	0.170	02/17/25 17:54		
4-Chloroaniline	mg/Kg	<0.012	0.012	0.170	02/17/25 17:54		
2-Chloronaphthalene	mg/Kg	<0.009	0.009	0.170	02/17/25 17:54		
2-Chlorophenol	mg/Kg	<0.013	0.013	0.170	02/17/25 17:54		
4-Chlorophenyl phenyl ether	mg/Kg	<0.011	0.011	0.170	02/17/25 17:54		
Chrysene	mg/Kg	<0.011	0.011	0.066	02/17/25 17:54		
Dibenz(a,h)anthracene	mg/Kg	<0.011	0.011	0.066	02/17/25 17:54		
Dibenzofuran	mg/Kg	<0.014	0.014	0.170	02/17/25 17:54		
1,2-Dichlorobenzene	mg/Kg	<0.008	0.008	0.170	02/17/25 17:54		
1,3-Dichlorobenzene	mg/Kg	<0.008	0.008	0.170	02/17/25 17:54		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 24
Report No: 25-034-0007

QC Prep: L799905 **QC Analytical Batch(es):** L800697
QC Prep Batch Method: 3546 **Analysis Method:** 8270E
Analysis Description: Semivolatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-L799905 Matrix: SOL
Associated Lab Samples: 91624, 91625, 91628, 91629

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
1,4-Dichlorobenzene	mg/Kg	<0.009	0.009	0.170	02/17/25 17:54		
3,3'-Dichlorobenzidine	mg/Kg	<0.110	0.110	0.330	02/17/25 17:54		
2,4-Dichlorophenol	mg/Kg	<0.015	0.015	0.170	02/17/25 17:54		
Diethyl phthalate	mg/Kg	<0.010	0.010	0.170	02/17/25 17:54		
Dimethyl phthalate	mg/Kg	<0.014	0.014	0.170	02/17/25 17:54		
2,4-Dimethylphenol	mg/Kg	<0.021	0.021	0.170	02/17/25 17:54		
Di-n-butyl phthalate	mg/Kg	<0.014	0.014	0.170	02/17/25 17:54		
4,6-Dinitro-2-methylphenol	mg/Kg	<0.008	0.008	0.330	02/17/25 17:54		
2,4-Dinitrophenol	mg/Kg	<0.009	0.009	0.330	02/17/25 17:54		
2,4-Dinitrotoluene	mg/Kg	<0.011	0.011	0.170	02/17/25 17:54		
2,6-Dinitrotoluene	mg/Kg	<0.011	0.011	0.170	02/17/25 17:54		
Di-n-Octyl Phthalate	mg/Kg	<0.022	0.022	0.170	02/17/25 17:54		
Fluoranthene	mg/Kg	<0.010	0.010	0.066	02/17/25 17:54		
Fluorene	mg/Kg	<0.015	0.015	0.066	02/17/25 17:54		
Hexachlorobenzene	mg/Kg	<0.010	0.010	0.170	02/17/25 17:54		
Hexachlorobutadiene	mg/Kg	<0.009	0.009	0.170	02/17/25 17:54		
Hexachloroethane	mg/Kg	<0.010	0.010	0.170	02/17/25 17:54		
Indeno(1,2,3-cd)pyrene	mg/Kg	<0.017	0.017	0.066	02/17/25 17:54		
Isophorone	mg/Kg	<0.011	0.011	0.170	02/17/25 17:54		
1-Methylnaphthalene	mg/Kg	<0.016	0.016	0.066	02/17/25 17:54		
2-Methylnaphthalene	mg/Kg	<0.009	0.009	0.066	02/17/25 17:54		
2-Methylphenol	mg/Kg	<0.015	0.015	0.170	02/17/25 17:54		
3&4 Methylphenol	mg/Kg	<0.014	0.014	0.170	02/17/25 17:54		
Naphthalene	mg/Kg	<0.010	0.010	0.066	02/17/25 17:54		
2-Nitroaniline	mg/Kg	<0.017	0.017	0.170	02/17/25 17:54		
3-Nitroaniline	mg/Kg	<0.009	0.009	0.330	02/17/25 17:54		
4-Nitroaniline	mg/Kg	<0.012	0.012	0.170	02/17/25 17:54		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 24
Report No: 25-034-0007

QC Prep: L799905 **QC Analytical Batch(es):** L800697
QC Prep Batch Method: 3546 **Analysis Method:** 8270E
Analysis Description: Semivolatile Organic Compounds - GC/MS

Lab Reagent Blank LRB-L799905 Matrix: SOL
Associated Lab Samples: 91624, 91625, 91628, 91629

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Nitrobenzene	mg/Kg	<0.006	0.006	0.170	02/17/25 17:54		
2-Nitrophenol	mg/Kg	<0.016	0.016	0.170	02/17/25 17:54		
4-Nitrophenol	mg/Kg	<0.013	0.013	0.170	02/17/25 17:54		
N-Nitrosodimethylamine	mg/Kg	<0.005	0.005	0.170	02/17/25 17:54		
N-Nitrosodiphenylamine	mg/Kg	<0.012	0.012	0.330	02/17/25 17:54		
N-Nitroso-di-n-propylamine	mg/Kg	<0.010	0.010	0.170	02/17/25 17:54		
Pentachlorophenol	mg/Kg	<0.018	0.018	0.330	02/17/25 17:54		
Phenanthrene	mg/Kg	<0.013	0.013	0.066	02/17/25 17:54		
Phenol	mg/Kg	<0.020	0.020	0.170	02/17/25 17:54		
Pyrene	mg/Kg	<0.012	0.012	0.066	02/17/25 17:54		
Pyridine	mg/Kg	<0.015	0.015	0.330	02/17/25 17:54		
1,2,4-Trichlorobenzene	mg/Kg	<0.010	0.010	0.170	02/17/25 17:54		
2,4,5-Trichlorophenol	mg/Kg	<0.020	0.020	0.170	02/17/25 17:54		
2,4,6-Trichlorophenol	mg/Kg	<0.014	0.014	0.170	02/17/25 17:54		
2-Fluorobiphenyl (S)					02/17/25 17:54	55.2	20-79
2-Fluorophenol (S)					02/17/25 17:54	52.5	10-85
Nitrobenzene-d5 (S)					02/17/25 17:54	52.5	22-72
Phenol-d6 (S)					02/17/25 17:54	56.1	10-96
4-Terphenyl-d14 (S)					02/17/25 17:54	54.9	22-104
2,4,6-Tribromophenol (S)					02/17/25 17:54	55.2	10-112

Laboratory Control Sample LCS-L799905

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Acenaphthene	mg/Kg	1.67	0.946	56.6	10-146
Acenaphthylene	mg/Kg	1.67	0.906	54.2	10-146
Aniline	mg/Kg	1.67	0.773	46.2	10-146

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 24
Report No: 25-034-0007

QC Prep:	L799905	QC Analytical Batch(es):	L800697
QC Prep Batch Method:	3546	Analysis Method:	8270E
		Analysis Description:	Semivolatile Organic Compounds - GC/MS

Laboratory Control Sample LCS-L799905

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Anthracene	mg/Kg	1.67	0.974	58.3	10-146
Benzo(a)anthracene	mg/Kg	1.67	0.964	57.7	10-146
Benzo(a)pyrene	mg/Kg	1.67	1.01	60.4	10-146
Benzo(b)fluoranthene	mg/Kg	1.67	1.07	64.0	10-146
Benzo(g,h,i)perylene	mg/Kg	1.67	1.17	70.0	10-146
Benzo(k)fluoranthene	mg/Kg	1.67	0.934	55.9	10-146
Benzoic Acid	mg/Kg	5.00	3.24	64.8	10-146
Benzyl alcohol	mg/Kg	1.67	1.01	60.4	10-146
Bis(2-Chloroethoxy)methane	mg/Kg	1.67	0.950	56.8	10-146
Bis(2-Chloroethyl)ether	mg/Kg	1.67	0.880	52.6	10-146
Bis(2-Chloroisopropyl)ether	mg/Kg	1.67	0.795	47.6	10-146
Bis(2-ethylhexyl)phthalate	mg/Kg	1.67	0.937	56.1	10-146
4-Bromophenyl phenyl ether	mg/Kg	1.67	0.985	58.9	10-146
Butyl benzyl phthalate	mg/Kg	1.67	1.05	62.8	10-146
4-Chloro-3-methylphenol	mg/Kg	1.67	1.13	67.6	10-146
4-Chloroaniline	mg/Kg	1.67	0.525	31.4	10-146
2-Chloronaphthalene	mg/Kg	1.67	0.943	56.4	10-146
2-Chlorophenol	mg/Kg	1.67	0.984	58.9	10-146
4-Chlorophenyl phenyl ether	mg/Kg	1.67	1.02	61.0	10-146
Chrysene	mg/Kg	1.67	0.946	56.6	10-146
Dibenz(a,h)anthracene	mg/Kg	1.67	1.29	77.2	10-146
Dibenzofuran	mg/Kg	1.67	1.03	61.6	10-146
1,2-Dichlorobenzene	mg/Kg	1.67	0.875	52.3	14-137
1,3-Dichlorobenzene	mg/Kg	1.67	0.835	50.0	14-134
1,4-Dichlorobenzene	mg/Kg	1.67	0.844	50.5	10-141
3,3'-Dichlorobenzidine	mg/Kg	3.33	1.92	57.6	10-146
2,4-Dichlorophenol	mg/Kg	1.67	1.06	63.4	10-146

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 24
Report No: 25-034-0007

QC Prep:	L799905	QC Analytical Batch(es):	L800697
QC Prep Batch Method:	3546	Analysis Method:	8270E
		Analysis Description:	Semivolatile Organic Compounds - GC/MS

Laboratory Control Sample LCS-L799905

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Diethyl phthalate	mg/Kg	1.67	1.03	61.6	10-146
Dimethyl phthalate	mg/Kg	1.67	0.993	59.4	10-146
2,4-Dimethylphenol	mg/Kg	1.67	1.03	61.6	10-146
Di-n-butyl phthalate	mg/Kg	1.67	1.06	63.4	10-146
4,6-Dinitro-2-methylphenol	mg/Kg	1.67	1.19	71.2	10-146
2,4-Dinitrophenol	mg/Kg	5.00	3.21	64.2	10-146
2,4-Dinitrotoluene	mg/Kg	1.67	1.12	67.0	10-146
2,6-Dinitrotoluene	mg/Kg	1.67	1.15	68.8	10-146
Di-n-Octyl Phthalate	mg/Kg	1.67	0.921	55.1	10-146
Fluoranthene	mg/Kg	1.67	1.13	67.6	10-146
Fluorene	mg/Kg	1.67	1.02	61.0	10-146
Hexachlorobenzene	mg/Kg	1.67	0.957	57.3	10-146
Hexachlorobutadiene	mg/Kg	1.67	0.911	54.5	33-151
Hexachloroethane	mg/Kg	1.67	0.862	51.6	10-146
Indeno(1,2,3-cd)pyrene	mg/Kg	1.67	1.14	68.2	10-146
Isophorone	mg/Kg	1.67	0.623	37.3	10-146
1-Methylnaphthalene	mg/Kg	1.67	0.955	57.1	10-146
2-Methylnaphthalene	mg/Kg	1.67	1.09	65.2	10-146
2-Methylphenol	mg/Kg	1.67	0.957	57.3	10-146
3&4 Methylphenol	mg/Kg	1.67	1.12	67.0	10-146
Naphthalene	mg/Kg	1.67	0.911	54.5	37-148
2-Nitroaniline	mg/Kg	1.67	1.19	71.2	10-146
3-Nitroaniline	mg/Kg	1.67	0.706	42.2	10-146
4-Nitroaniline	mg/Kg	1.67	1.30	77.8	10-146
Nitrobenzene	mg/Kg	1.67	0.949	56.8	10-146
2-Nitrophenol	mg/Kg	1.67	1.00	59.8	10-146
4-Nitrophenol	mg/Kg	1.67	1.17	70.0	10-146

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 24
Report No: 25-034-0007

QC Prep: L799905
QC Prep Batch Method: 3546
QC Analytical Batch(es): L800697
Analysis Method: 8270E
Analysis Description: Semivolatile Organic Compounds - GC/MS

Laboratory Control Sample LCS-L799905

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
N-Nitrosodimethylamine	mg/Kg	1.67	0.897	53.7	10-146
N-Nitrosodiphenylamine	mg/Kg	1.67	0.844	50.5	10-146
N-Nitroso-di-n-propylamine	mg/Kg	1.67	0.877	52.5	10-146
Pentachlorophenol	mg/Kg	1.67	0.974	58.3	10-146
Phenanthrene	mg/Kg	1.67	0.983	58.8	10-146
Phenol	mg/Kg	1.67	0.984	58.9	10-146
Pyrene	mg/Kg	1.67	0.990	59.2	10-146
Pyridine	mg/Kg	1.67	0.688	41.1	10-146
1,2,4-Trichlorobenzene	mg/Kg	1.67	0.932	55.8	10-146
2,4,5-Trichlorophenol	mg/Kg	1.67	1.17	70.0	10-146
2,4,6-Trichlorophenol	mg/Kg	1.67	1.15	68.8	10-146
2-Fluorobiphenyl (S)				58.8	20-79
2-Fluorophenol (S)				58.2	10-85
Nitrobenzene-d5 (S)				56.4	22-72
Phenol-d6 (S)				61.8	10-96
4-Terphenyl-d14 (S)				61.2	22-104
2,4,6-Tribromophenol (S)				65.1	10-112

Matrix Spike & Matrix Spike Duplicate V 91624-MS-L799905 V 91624-MSD-L799905

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Acenaphthene	mg/Kg	<0.010	1.63	1.64	0.952	1.03	58.4	62.8	10-146	7.8	30
Acenaphthylene	mg/Kg	<0.011	1.63	1.64	0.893	0.973	54.7	59.3	10-146	8.5	30
Aniline	mg/Kg	<0.004	1.63	1.64	0.585	0.670	35.8	40.8	10-146	13.5	30
Anthracene	mg/Kg	<0.013	1.63	1.64	1.00	1.12	61.3	68.2	10-146	11.3	30
Benzo(a)anthracene	mg/Kg	<0.008	1.63	1.64	1.00	1.16	61.3	70.7	10-146	14.8	30

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 24
Report No: 25-034-0007

QC Prep: L799905 **QC Analytical Batch(es):** L800697
QC Prep Batch Method: 3546 **Analysis Method:** 8270E
Analysis Description: Semivolatile Organic Compounds - GC/MS

Matrix Spike & Matrix Spike Duplicate V 91624-MS-L799905 V 91624-MSD-L799905

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Benzo(a)pyrene	mg/Kg	<0.010	1.63	1.64	1.10	1.15	67.4	70.1	10-146	4.4	30
Benzo(b)fluoranthene	mg/Kg	<0.008	1.63	1.64	1.20	1.35	73.6	82.3	10-146	11.7	30
Benzo(g,h,i)perylene	mg/Kg	<0.013	1.63	1.64	1.00	1.04	61.3	63.4	10-146	3.9	30
Benzo(k)fluoranthene	mg/Kg	<0.011	1.63	1.64	0.904	1.07	55.4	65.2	10-146	16.8	30
Benzoic Acid	mg/Kg	<0.016	4.90	4.92	2.74	3.59	55.9	72.9	10-146	26.8	30
Benzyl alcohol	mg/Kg	<0.021	1.63	1.64	0.989	1.06	60.6	64.6	10-146	6.9	30
Bis(2-Chloroethoxy)methane	mg/Kg	<0.011	1.63	1.64	0.967	1.05	59.3	64.0	10-146	8.2	30
Bis(2-Chloroethyl)ether	mg/Kg	<0.006	1.63	1.64	0.911	0.991	55.8	60.4	10-146	8.4	30
Bis(2-Chloroisopropyl)ether	mg/Kg	<0.021	1.63	1.64	0.754	0.822	46.2	50.1	10-146	8.6	30
Bis(2-ethylhexyl)phthalate	mg/Kg	<0.015	1.63	1.64	1.00	1.18	61.3	71.9	10-146	16.5	30
4-Bromophenyl phenyl ether	mg/Kg	<0.015	1.63	1.64	0.983	1.08	60.3	65.8	10-146	9.4	30
Butyl benzyl phthalate	mg/Kg	<0.017	1.63	1.64	1.06	1.21	65.0	73.7	10-146	13.2	30
4-Chloro-3-methylphenol	mg/Kg	<0.016	1.63	1.64	1.62	1.74	99.3	106	10-146	7.1	30
4-Chloroaniline	mg/Kg	<0.012	1.63	1.64	0.601	0.697	36.8	42.5	10-146	14.7	30
2-Chloronaphthalene	mg/Kg	<0.009	1.63	1.64	0.811	0.914	49.7	55.7	10-146	11.9	30
2-Chlorophenol	mg/Kg	<0.013	1.63	1.64	1.00	1.09	61.3	66.4	10-146	8.6	30
4-Chlorophenyl phenyl ether	mg/Kg	<0.011	1.63	1.64	1.17	1.28	71.7	78.0	10-146	8.9	30
Chrysene	mg/Kg	<0.011	1.63	1.64	0.977	1.03	59.9	62.8	10-146	5.2	30
Dibenz(a,h)anthracene	mg/Kg	<0.011	1.63	1.64	1.20	1.32	73.6	80.4	10-146	9.5	30
Dibenzofuran	mg/Kg	<0.014	1.63	1.64	1.12	1.23	68.7	75.0	10-146	9.3	30
1,2-Dichlorobenzene	mg/Kg	<0.008	1.63	1.64	0.886	0.942	54.3	57.4	14-137	6.1	30
1,3-Dichlorobenzene	mg/Kg	<0.008	1.63	1.64	0.867	0.943	53.1	57.5	14-134	8.3	30
1,4-Dichlorobenzene	mg/Kg	<0.009	1.63	1.64	0.883	0.940	54.1	57.3	10-141	6.2	30
3,3'-Dichlorobenzidine	mg/Kg	<0.110	3.27	3.28	1.90	2.03	58.1	61.8	10-146	6.6	30
2,4-Dichlorophenol	mg/Kg	<0.015	1.63	1.64	1.02	1.07	62.5	65.2	10-146	4.7	30
Diethyl phthalate	mg/Kg	<0.010	1.63	1.64	1.13	1.25	69.3	76.2	10-146	10.0	30

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 24
Report No: 25-034-0007

QC Prep:	L799905	QC Analytical Batch(es):	L800697
QC Prep Batch Method:	3546	Analysis Method:	8270E
		Analysis Description:	Semivolatile Organic Compounds - GC/MS

Matrix Spike & Matrix Spike Duplicate V 91624-MS-L799905 V 91624-MSD-L799905

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Dimethyl phthalate	mg/Kg	<0.014	1.63	1.64	0.969	1.01	59.4	61.5	10-146	4.1	30
2,4-Dimethylphenol	mg/Kg	<0.021	1.63	1.64	1.09	1.26	66.8	76.8	10-146	14.4	30
Di-n-butyl phthalate	mg/Kg	<0.014	1.63	1.64	1.15	1.32	70.5	80.4	10-146	13.7	30
4,6-Dinitro-2-methylphenol	mg/Kg	<0.008	1.63	1.64	1.06	1.14	65.0	69.5	10-146	7.2	30
2,4-Dinitrophenol	mg/Kg	<0.009	4.90	4.92	2.66	2.85	54.2	57.9	10-146	6.8	30
2,4-Dinitrotoluene	mg/Kg	<0.011	1.63	1.64	1.34	1.51	82.2	92.0	10-146	11.9	30
2,6-Dinitrotoluene	mg/Kg	<0.011	1.63	1.64	1.12	1.28	68.7	78.0	10-146	13.3	30
Di-n-Octyl Phthalate	mg/Kg	<0.022	1.63	1.64	0.988	1.20	60.6	73.1	10-146	19.3	30
Fluoranthene	mg/Kg	<0.010	1.63	1.64	1.13	1.30	69.3	79.2	10-146	13.9	30
Fluorene	mg/Kg	<0.015	1.63	1.64	1.18	1.28	72.3	78.0	10-146	8.1	30
Hexachlorobenzene	mg/Kg	<0.010	1.63	1.64	0.988	1.17	60.6	71.3	10-146	16.8	30
Hexachlorobutadiene	mg/Kg	<0.009	1.63	1.64	0.970	1.06	59.5	64.6	33-151	8.8	30
Hexachloroethane	mg/Kg	<0.010	1.63	1.64	0.878	0.946	53.8	57.6	10-146	7.4	30
Indeno(1,2,3-cd)pyrene	mg/Kg	<0.017	1.63	1.64	1.06	1.15	65.0	70.1	10-146	8.1	30
Isophorone	mg/Kg	<0.011	1.63	1.64	0.434	0.406	26.6	24.7	10-146	6.6	30
1-Methylnaphthalene	mg/Kg	0.432	1.63	1.64	1.38	1.51	58.1	65.7	10-146	8.9	30
2-Methylnaphthalene	mg/Kg	<0.009	1.63	1.64	1.21	1.37	74.2	83.5	10-146	12.4	30
2-Methylphenol	mg/Kg	<0.015	1.63	1.64	0.928	1.01	56.9	61.5	10-146	8.4	30
3&4 Methylphenol	mg/Kg	<0.014	1.63	1.64	1.08	1.18	66.2	71.9	10-146	8.8	30
Naphthalene	mg/Kg	<0.010	1.63	1.64	1.48	1.56	90.7	95.1	37-148	5.2	30
2-Nitroaniline	mg/Kg	<0.017	1.63	1.64	1.02	1.18	62.5	71.9	10-146	14.5	30
3-Nitroaniline	mg/Kg	<0.009	1.63	1.64	0.745	0.844	45.7	51.4	10-146	12.4	30
4-Nitroaniline	mg/Kg	<0.012	1.63	1.64	1.05	1.25	64.4	76.2	10-146	17.3	30
Nitrobenzene	mg/Kg	<0.006	1.63	1.64	1.15	1.21	70.5	73.7	10-146	5.0	30
2-Nitrophenol	mg/Kg	<0.016	1.63	1.64	1.09	1.25	66.8	76.2	10-146	13.6	30
4-Nitrophenol	mg/Kg	<0.013	1.63	1.64	0.991	2.13	60.7	130	10-146	72.9*	30

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 24
Report No: 25-034-0007

QC Prep: L799905 **QC Analytical Batch(es):** L800697
QC Prep Batch Method: 3546 **Analysis Method:** 8270E
Analysis Description: Semivolatile Organic Compounds - GC/MS

Matrix Spike & Matrix Spike Duplicate V 91624-MS-L799905 V 91624-MSD-L799905

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
N-Nitrosodimethylamine	mg/Kg	<0.005	1.63	1.64	0.950	1.00	58.2	60.9	10-146	5.1	30
N-Nitrosodiphenylamine	mg/Kg	<0.012	1.63	1.64	0.915	0.996	56.1	60.7	10-146	8.4	30
N-Nitroso-di-n-propylamine	mg/Kg	<0.010	1.63	1.64	1.15	0.806	70.5	49.1	10-146	35.1*	30
Pentachlorophenol	mg/Kg	<0.018	1.63	1.64	1.16	1.29	71.1	78.6	10-146	10.6	30
Phenanthrene	mg/Kg	<0.013	1.63	1.64	1.03	1.14	63.1	69.5	10-146	10.1	30
Phenol	mg/Kg	<0.020	1.63	1.64	0.984	1.05	60.3	64.0	10-146	6.4	30
Pyrene	mg/Kg	<0.012	1.63	1.64	0.985	1.03	60.4	62.8	10-146	4.4	30
Pyridine	mg/Kg	<0.015	1.63	1.64	0.738	0.769	45.2	46.8	10-146	4.1	30
1,2,4-Trichlorobenzene	mg/Kg	<0.010	1.63	1.64	1.02	1.11	62.5	67.6	10-146	8.4	30
2,4,5-Trichlorophenol	mg/Kg	<0.020	1.63	1.64	1.10	1.24	67.4	75.6	10-146	11.9	30
2,4,6-Trichlorophenol	mg/Kg	<0.014	1.63	1.64	1.11	1.25	68.0	76.2	10-146	11.8	30
2-Fluorobiphenyl (S)							52.5	56.0	20-79		
2-Fluorophenol (S)							55.9	59.4	10-85		
Nitrobenzene-d5 (S)							56.2	59.1	22-72		
Phenol-d6 (S)							56.5	60.0	10-96		
4-Terphenyl-d14 (S)							57.4	59.1	22-104		
2,4,6-Tribromophenol (S)							60.5	65.5	10-112		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 24
Report No: 25-034-0007

QC Prep: L799927
QC Prep Batch Method: MAEPH (Prep)
QC Analytical Batch(es): L800398
Analysis Method: MADEP-EPH
Analysis Description: Massachusetts EPH

Lab Reagent Blank LRB-L799927 Matrix: SOL
Associated Lab Samples: 91624, 91625, 91628, 91629

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Aliphatic C9-C18	mg/Kg	<1.18	1.18	3.00	02/24/25 11:00		
Aliphatic C19-C36	mg/Kg	<0.948	0.948	4.00	02/24/25 11:00		
Aromatic C11-C22	mg/Kg	<3.95	3.95	8.50	02/21/25 20:36		
2-Fluorobiphenyl (S)					02/21/25 20:36	77.8	40-140
Chlorooctadecane (S)					02/24/25 11:00	58.4	40-140
OTP Surrogate (S)					02/21/25 20:36	47.0	40-140

Laboratory Control Sample LCS-L799927

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Aliphatic C9-C18	mg/Kg	6.67	4.23	63.4	40-140
Aliphatic C19-C36	mg/Kg	10.0	5.97	59.7	40-140
Aromatic C11-C22	mg/Kg	16.7	16.6	99.4	40-140
2-Fluorobiphenyl (S)				73.6	40-140
Chlorooctadecane (S)				57.0	40-140
OTP Surrogate (S)				40.4	40-140

Matrix Spike & Matrix Spike Duplicate V 91628-MS-L799927 V 91628-MSD-L799927

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Aliphatic C9-C18	mg/Kg	370	6.54	6.56	577	650	3170*	4270*	40-140	11.8	50
Aliphatic C19-C36	mg/Kg	3.80	9.80	9.84	8.70	10.1	88.7	103	40-140	14.8	50
Aromatic C11-C22	mg/Kg	61.9	16.3	16.4	21.8	38.0	0.0*	0.0*	40-140	54.1*	50
2-Fluorobiphenyl (S)							85.2	95.1	40-140		
Chlorooctadecane (S)							46.1	52.6	40-140		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 24
Report No: 25-034-0007

QC Prep:	L799927	QC Analytical Batch(es):	L800398
QC Prep Batch Method:	MAEPH (Prep)	Analysis Method:	MADEP-EPH
		Analysis Description:	Massachusetts EPH

Matrix Spike & Matrix Spike Duplicate V 91628-MS-L799927 V 91628-MSD-L799927

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
OTP Surrogate (S)							47.7	54.8	40-140		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 24
Report No: 25-034-0007

QC Prep:	V56281	QC Analytical Batch(es):	V56282
QC Prep Batch Method:	MAVPH (Prep)	Analysis Method:	MADEP-VPH
		Analysis Description:	Massachusetts VPH

Lab Reagent Blank LRB-V56281 Matrix: SOL
Associated Lab Samples: 91629

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Aliphatic C5-C8	mg/Kg	<1.22	1.22	8.00	02/13/25 20:58		
Aliphatic C9-C12	mg/Kg	<4.56	4.56	8.00	02/13/25 20:58		
Aromatic C9-C10	mg/Kg	<0.624	0.624	8.00	02/13/25 20:58		
2,5-Dibromotoluene (FID) (S)					02/13/25 20:58	70.0	70-130
2,5-Dibromotoluene (PID) (S)					02/13/25 20:58	70.9	70-130

Laboratory Control Sample & LCSD LCS-V56281 LCSD-V56281

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Aliphatic C5-C8	mg/Kg	64.0	48.1	45.4	75.1	70.9	70-130	5.7	50
Aliphatic C9-C12	mg/Kg	96.0	91.0	83.5	94.7	86.9	70-130	8.5	50
Aromatic C9-C10	mg/Kg	21.3	21.4	20.5	100	96.2	70-130	4.2	50
2,5-Dibromotoluene (FID) (S)					73.7	70.0	70-130		
2,5-Dibromotoluene (PID) (S)					75.5	70.1	70-130		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 24
Report No: 25-034-0007

QC Prep: V56312
QC Prep Batch Method: MAVPH (Prep)
QC Analytical Batch(es): V56313
Analysis Method: MADEP-VPH
Analysis Description: Massachusetts VPH

Lab Reagent Blank LRB-V56312 Matrix: SOL
Associated Lab Samples: 91624, 91625, 91628

Parameter	Units	Blank Result	MDL	MQL	Analyzed	% Recovery	% Rec Limits
Aliphatic C5-C8	mg/Kg	<1.22	1.22	8.00	02/14/25 16:41		
Aliphatic C9-C12	mg/Kg	<4.56	4.56	8.00	02/14/25 16:41		
Aromatic C9-C10	mg/Kg	<0.624	0.624	8.00	02/14/25 16:41		
2,5-Dibromotoluene (FID) (S)					02/14/25 16:41	71.7	70-130
2,5-Dibromotoluene (PID) (S)					02/14/25 16:41	76.5	70-130

Laboratory Control Sample & LCSD LCS-V56312 LCSD-V56312

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Aliphatic C5-C8	mg/Kg	64.0	48.1	48.2	75.1	75.3	70-130	0.2	50
Aliphatic C9-C12	mg/Kg	96.0	92.4	93.6	96.2	97.5	70-130	1.2	50
Aromatic C9-C10	mg/Kg	21.3	21.6	21.4	101	100	70-130	0.9	50
2,5-Dibromotoluene (FID) (S)					70.0	70.3	70-130		
2,5-Dibromotoluene (PID) (S)					72.1	73.3	70-130		

Quality Control Data

Client ID: Hart & Hickman (Charlotte)
Project Description: ROW-809 Parcel 24
Report No: 25-034-0007

QC Analytical Batch: V55990
Analysis Method: SW-DRYWT
Analysis Description: Dry Weight Determination

Duplicate V 91629-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Moisture	%	24.1	24.4	1.2	20.0	02/04/25 14:22

Shipment Receipt Form

Customer Number: **01102**

Customer Name: **Hart & Hickman (Charlotte)**

Report Number: **25-034-0007**

Shipping Method

☐ Fed Ex	☐ US Postal	☐ Lab	☐ Other :	
☐ UPS	☒ Client	☐ Courier	Thermometer ID:	IRT15 2.3C

Shipping container/cooler uncompromised?	☒ Yes	☐ No	
Number of coolers/boxes received	1		
Custody seals intact on shipping container/cooler?	☐ Yes	☐ No	☒ Not Present
Custody seals intact on sample bottles?	☐ Yes	☐ No	☒ Not Present
Chain of Custody (COC) present?	☒ Yes	☐ No	
COC agrees with sample label(s)?	☒ Yes	☐ No	
COC properly completed	☒ Yes	☐ No	
Samples in proper containers?	☒ Yes	☐ No	
Sample containers intact?	☒ Yes	☐ No	
Sufficient sample volume for indicated test(s)?	☒ Yes	☐ No	
All samples received within holding time?	☒ Yes	☐ No	
Cooler temperature in compliance?	☒ Yes	☐ No	☐ Not Present
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	☒ Yes	☐ No	
Water - Sample containers properly preserved	☐ Yes	☐ No	☒ N/A
Water - VOA vials free of headspace	☐ Yes	☐ No	☒ N/A
Trip Blanks received with VOAs	☐ Yes	☐ No	☒ N/A
Soil VOA method 5035 – compliance criteria met	☒ Yes	☐ No	☐ N/A
☐ High concentration container (48 hr)	☐ Low concentration EnCore samplers (48 hr)		
☒ High concentration pre-weighed (methanol -14 d)	☒ Low conc pre-weighed vials (Sod Bis -14 d)		
Special precautions or instructions included?	☐ Yes	☒ No	

Comments:

Signature:

Angelo Norvell

Date & Time:

02/03/2025 11:10:20

